UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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AMGEN INC.,
Petitioner,

v.

BRISTOL-MYERS SQUIBB COMPANY
Patent Owner.

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Case No. IPR2025-00601
Patent No. 9,856,320

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DECLARATION OF SYLVIA D. HALL-ELLIS, PH.D.

Amgen Exhibit 1038
Amgen v. BMS

I. INTRODUCTION

1. My name is Sylvia D. Hall-Ellis. I have been retained as an expert by Wolf, Greenfield & Sacks, P.C. ("Wolf Greenfield").

2. I have written this report at the request of Wolf Greenfield to provide my expert opinion regarding the authenticity and public availability of several journal publications. My report sets forth my opinions in detail and provides the basis for my opinions regarding the public availability of these publications.

3. I reserve the right to supplement or amend my opinions, and bases for them, in response any additional evidence, testimony, discovery, argument, and/or other additional information that may be provided to me after the date of this report.

4. I am being compensated for my time spent working on this matter at my normal consulting rate of $400 per hour, plus reimbursement for any additional reasonable expenses. My compensation is not in any way tied to the content of this report, the substance of my opinions, or the outcome of this litigation. I have no other interests in this proceeding or with any of the parties.

5. All of the materials that I considered are discussed explicitly in this declaration.

II. QUALIFICATIONS

6. I am currently an Adjunct Professor in the School of Information at San José State University. I obtained a Master of Library Science from the University

of North Texas in 1972 and a Ph.D. in Library and Information Science from the University of Pittsburgh in 1985. Over the last fifty years, I have held various positions in the field of library and information resources. I was first employed as a librarian in 1966 and have been involved in the field of library sciences since, holding numerous positions.

7. I am a member of the American Library Association (ALA) and its Association for Library Collections & Technical Services (ALCTS) Division, and I served on the Committee on Cataloging: Resource and Description (which wrote the new cataloging rules) and as the chair of the Committee for Education and Training of Catalogers and the Competencies and Education for a Career in Cataloging Interest Group. I also served as the Chair of the ALCTS Division's Task Force on Competencies and Education for a Career in Cataloging. Additionally, I have served as the Chair for the ALA Office of Diversity's Committee on Diversity, as a member of the national Board of Directors for REFORMA, as a member of the Editorial Board for the ALCTS premier cataloging journal, *Library Resources and Technical Services,* as a Co-Chair for the Library Research Round Table (LRRT) of ALA, and a member of the LRRT Nominating Committee. Currently I serve as a member of the CORE Margaret Mann Citation Committee.

8. I have also given over one hundred presentations in the field, including several related to library cataloging systems and Machine-Readable Cataloging

("MARC") standards. My current research interests include library cataloging systems, metadata, and organization of electronic resources.

9. My full curriculum vitae is attached hereto as Attachment 1 to this report.

III. PRELIMINARIES

A. Scope of Declaration and Legal Standards

10. I am not an attorney and will not offer opinions on the law. I am, however, rendering my expert opinion on the authenticity of the documents referenced herein and when and how each of these documents was disseminated or otherwise made available to the extent that persons interested and ordinarily skilled in the subject matter or art, exercising reasonable diligence, could have located the documents before May 15, 2012.

11. I am informed by counsel that a printed publication qualifies as publicly accessible as of the date it was disseminated or otherwise made available such that a person interested in and ordinarily skilled in the relevant subject matter could locate it through the exercise of ordinary diligence.

12. While I understand that the determination of public accessibility under the foregoing standard rests on a case-by-case analysis of the facts particular to an individual publication, I also understand that a printed publication is rendered "publicly accessible" if it is cataloged and indexed by a library such that a person

interested in the relevant subject matter could locate it exercising reasonable diligence (*i.e.*, I understand that cataloging and indexing by a library in a manner that permits a person of ordinary skill in the relevant subject matter to locate the publication is sufficient, though there are other ways that a printed publication may qualify as publicly accessible). One manner of sufficient indexing is indexing according to subject matter category. I understand that the cataloging and indexing by a single library of a single instance of a particular printed publication is sufficient, even if the single library is in a foreign country. I understand that, even if access to a library is restricted, a printed publication that has been cataloged and indexed therein is publicly accessible so long as a presumption is raised that the portion of the public concerned with the relevant subject matter would know of the printed publication. I also understand that the cataloging and indexing of information that would guide a person interested in the relevant subject matter to the printed publication, such as the cataloging and indexing of an abstract for the printed publication, is sufficient to render the printed publication publicly accessible.

13. I understand that routine business practices, such as general library cataloging and indexing practices, can be used to establish an approximate date on which a printed publication became publicly accessible.

B. Persons of ordinary skill in the art

14. I am told by counsel that the subject matter of this proceeding relates generally to methods of administering anti-PD-1 and anti-CTLA-4 antibodies.

15. I have been informed by counsel that a "person of ordinary skill in the art at the time of the invention" (POSITA) is a hypothetical person who is presumed to be familiar with the relevant field and its literature at the time of the inventions. This hypothetical person is also a person of ordinary creativity, capable of understanding the scientific principles applicable to the pertinent field.

16. I am told by counsel that persons of ordinary skill in this subject matter or art would have had a Ph.D. degree in immunology or a related field (or alternatively a M.D. with a particular focus on cancer immunotherapy) plus at least two years of experience in that field, including experience with cancer treatments; and that the levels of education, experience and knowledge can trade off against one another; and that POSITAs would also have either been (1) skilled in pharmacokinetics or (2) able to communicate as part of a team with pharmacokinetics experts, if necessary.

17. It is my opinion that such a person would have been engaged in research, learning through study and practice in the field and possibly through formal instruction the bibliographic resources relevant to his or her research. Before May 15, 2012, such a person would have had access to a vast array of long-established

print resources, as well as to a rich set of online resources providing indexing information, abstracts, and full text services, related to immunotherapy, including immunotherapies involving anti-PD-1 and anti-CTLA-4 checkpoint inhibitors.

18. Based on my experience working in research libraries with researchers having the qualifications described above, or even lesser qualifications, it is my opinion that such researchers would have been able to locate the material discussed herein on their own or with the assistance of a research librarian with relative ease using the tools and resources described herein.

IV. LIBRARY CATALOGING PRACTICES

19. In preparing this declaration, I used authoritative databases, such as the OCLC bibliographic database, the Library of Congress Online Catalog, and the Library of Congress Subject Authorities, to confirm citation details of the various publications discussed. Unless I note otherwise below in reference to a specific serial publication, it is my expert opinion that this standard protocol was followed for the serial publication discussed below.

20. Based on my experience working in research libraries with researchers having the qualifications described above, or even lesser qualifications, it is my opinion that such researchers would have been able to locate the material discussed herein on their own or with the assistance of a research librarian with relative ease using the tools and resources described herein.

A. INDEXING

21. A researcher may discover material relevant to his or her topic in a variety of ways. One common means of discovery is to search for relevant information in an index of periodical and other publications. Having found relevant material, the researcher will then normally obtain it online, look for it in libraries, or purchase it from the publisher, a bookstore, a document delivery service, or other provider. Sometimes, the date of a document's public accessibility will involve both indexing and library date information. However, date information for indexing entries is often unavailable. This is especially true for online indices.

22. Indexing services use a wide variety of controlled vocabularies to provide subject access and other means of discovering the content of documents. The formats in which these access terms are presented vary from service to service.

23. Online indexing services commonly provide bibliographic information, abstracts, and full-text copies of the indexed publications, along with a list of the documents cited in the indexed publication. These services also often provide lists of publications that cite a given document. A citation of a document is evidence that the document was publicly available and in use by researchers no later than the publication date of the citing document.

24. Before the widespread development of online databases to index articles in journals, magazines, conference papers, and technical reports, libraries

purchased printed volumes of indices. Graduate library school education mandated that students learn about the bibliographic control of disciplines, the prominent indexing volumes, and searching strategies required to use them effectively and efficiently. Half of the courses that I studied in library school were focused on bibliography and resources in academic disciplines.

25. Librarians consulted with information seekers to verify citations, check availability in union catalogs, printed books catalogs, the OCLC database, and make formal requests for materials (e.g., books, conference proceedings, journal articles). Requests were transmitted using Telex machines, rudimentary email systems, and the United States Postal Service. During my career, I have performed and supervised staff who handled these resource sharing tasks.

26. A major firm known for the breadth of subjects and comprehensive treatment in the preparation of index volumes, the H. W. Wilson Company offered these reference resources since the firm was founded in 1898. The *Reader's Guide to Periodical Literature* is one of the best-known titles available from H. W. Wilson. Each volume includes a comprehensive index for 300 of the most popular and important periodicals published in the United States and Canada. Information seekers have subject access expressed in plain language terminology, author access, and cross references to find the desired results from their searches. The family of index titles included *Science & Technology Index*, *Business Periodicals*, *Applied*

Science & Technology Index, Humanities Index, Biological & Agricultural Index, and *Industrial Arts Index*. These printed indices have been superseded by digital database offerings available to information seekers through Ebsco.

27. Information seekers also used printed versions of *Chemical Abstracts* and *Index Medicus* to locate articles, scientific reports, and research papers. *Chemical Abstracts* began publication in 1907 and by 2007 its databases "contained more than 27 million records of journal and patent literature."[1] In 2010, *Chemical Abstracts* discontinued the print index. Access is now available through two electronic databases: *CAplus* and *Registry*.[2] *Index Medicus* is a bibliographic index to medical science information, started in 1879.[3] Currently, *PubMed* includes

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[1] Chemical Abstracts Service, "CAS History," *available at* https://www.cas.org/about/cas-history (last accessed September 2, 2024); American Chemical Society, "Chemical Abstracts Service," *available at* https://www.acs.org/content/acs/en/education/whatischemistry/landmarks/cas.html (last accessed September 2, 2024).

[2] American Chemical Society, "Chemical Abstracts Service," *available at* https://www.acs.org/content/acs/en/education/whatischemistry/landmarks/cas.html (last accessed September 2, 2024).

[3] Stephen Greenberg and Patricia Gallagher, "The great contribution: *Index Medicus*, *Index-Catalogue*, and IndexCast," *Journal of Medical Library Association*, April 2009, available at

the content that had been published as *Index Medicus*.[4]

28. Established in 1836 as part of the Surgeon General of the Army's Office, the National Library of Medicine (NLM) has been instrumental in the development of access to medical books, journals, and research publications. In the 1970s, NLM introduced MEDLINE, followed by "the establishment of the National Center for Biotechnology Information in 1988, the introduction of free MEDLINE in 1997, the creation of consumer-friendly MedlinePlus in 1998, and the introduction of ClinicalTrials.gov in 2000."[5]

29. A citation of a document by another is evidence that the document was publicly available and in use no later than the publication date of the citing document.

30. Online indexing services such as Google Scholar[6] or ScienceDirect[7]

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https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2670211/ (last accessed September 2, 2024).

[4] U.S. National Library of Medicine, "List of All Journals Cited in PubMed®," https://www.nlm.nih.gov/bsd/serfile_addedinfo.html (last accessed September 2, 2024).

[5] U.S. National Library of Medicine, "A Brief History of NLM," available at https://www.nlm.nih.gov/about/briefhistory.html

[6] https://scholar.google.com/

[7] https://www.sciencedirect.com/

commonly provide bibliographic information, abstracts, and full-text copies of the indexed publications, along with a list of the documents cited in the indexed publication. These services also often provide lists of publications that cite a given document.

31. A researcher may discover material relevant to his or her topic in a variety of ways. A citation of a document by another is evidence that the document was publicly available and in use no later than the publication date of the citing document. One common means of discovery is to search for relevant information in an index of periodicals and other publications. Having found relevant material, the researcher will then normally obtain it online, look for it in libraries, or purchase it from a publisher, a bookstore, a document delivery service, or other provider. Sometimes, the date of a document's public accessibility will involve both indexing and library date information. However, date information for indexing entries is often unavailable. This is especially true for online indices.

32. Indexing services use a wide variety of controlled vocabularies to provide subject access and other means of discovering the content of documents. The Library of Congress Subject Authorities includes standard forms of terms and cross references that are included in bibliographic records. Subject headings are terms that an individual seeking a document regardless of format can enter in the search bar of the online catalog. Subjects also connect an authenticated term (one

included in the Library of Congress subject headings list) with related, broader, and narrower terms. The formats in which these access terms are presented vary from service to service.

33. Online indexing services commonly provide bibliographic information, abstracts, and full-text copies of the indexed publications, along with a list of the documents cited in the indexed publication. These services also often provide lists of publications that cite a given document. A citation of a document is evidence that the document was publicly available and in use by researchers no later than the publication date of the citing document. Prominent indexing services include *Scopus,* the *IEEE Xplore* database, the *ACM Digital Library, Google Scholar,* and the *Internet Archive*.

B. MARC RECORDS AND THE ONLINE LIBRARY CATALOG

34. I am fully familiar with the library cataloging standard known as the MARC standard, which is an industry-wide standard method of storing and organizing library catalog information.[8] MARC was first developed in the 1960s by the Library of Congress. A MARC-compatible library is one that has a catalog consisting of individual MARC records for each of its items. Today, MARC is the

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[8] The full text of the standard is available from the Library of Congress at http://www.loc.gov/marc/bibliographic/

primary communications protocol for the transfer and storage of bibliographic metadata in libraries.[9]

35. Since at least the early 1970s and continuing to the present day, MARC has been the primary communications protocol for the transfer and storage of bibliographic metadata in libraries.[10] As explained by the Library of Congress:

> You could devise your own method of organizing the bibliographic information, but you would be isolating your library, limiting its options, and creating much more work for yourself. Using the MARC standard prevents duplication of work and allows libraries to better share bibliographic resources. Choosing to use MARC enables

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[9] Almost every major library in the world is MARC-compatible. *See, e.g.*, *MARC Frequently Asked Questions (FAQ)*, Library of Congress, https://www.loc.gov/marc/faq.html (last visited September 2, 2024) ("MARC is the acronym for MAchine-Readable Cataloging. It defines a data format that emerged from a Library of Congress-led initiative that began nearly fifty years ago. It provides the mechanism by which computers exchange, use, and interpret bibliographic information, and its data elements make up the foundation of most library catalogs used today."). MARC is the ANSI/NISO Z39.2-1994 (reaffirmed 2016) standard for Information Interchange Format.

[10] A complete history of the development of MARC can be found in *MARC: Its History and Implications* by Henrietta D. Avram (Washington, DC: Library of Congress, 1975) and available online from the Hathi Trust (https://babel.hathitrust.org/cgi/pt?id=mdp.39015034388556;view=1up;seq=1; last visited September 2, 2024).

> libraries to acquire cataloging data that is predictable and reliable. If a library were to develop a "home-grown" system that did not use MARC records, it would not be taking advantage of an industry-wide standard whose primary purpose is to foster communication of information.
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> Using the MARC standard also enables libraries to make use of commercially available library automation systems to manage library operations. Many systems are available for libraries of all sizes and are designed to work with the MARC format. Systems are maintained and improved by the vendor so that libraries can benefit from the latest advances in computer technology. The MARC standard also allows libraries to replace one system with another with the assurance that their data will still be compatible.

Why Is a MARC Record Necessary? LIBRARY OF CONGRESS. [11]

36. Thus, almost every major library in the world is MARC-compatible. *See, e.g.*, *MARC Frequently Asked Questions (FAQ)*, LIBRARY OF CONGRESS. [12] ("MARC is the acronym for MAchine-Readable Cataloging. It defines a data format that emerged from a Library of Congress-led initiative that began fifty years ago. It provides the mechanism by which computers exchange, use, and interpret bibliographic information, and its data elements make up the foundation of most library catalogs used today."). MARC is the ANSI/NISO Z39.2-1994 standard

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[11] http://www.loc.gov/marc/umb/um01to06.html#part2

[12] https://www.loc.gov/marc/faq.html

(reaffirmed in 2016) for Information Interchange Format. The full text of the standard is available from the Library of Congress.[13]

37. A MARC record comprises several fields, each of which contains specific data about the work. Each field is identified by a standardized, unique, three-digit code corresponding to the type of data that follow. For example, a work's title is recorded in Field 245; the primary author of the work is transcribed in Field 100; an item's International Standard Book Number ("ISBN") consisting of ten or thirteen digits is transcribed in Field 020; an item's International Standard Serial Number ("ISSN") is transcribed in Field 022; the Library of Congress classification notation is recorded in Field 050; and the publication date is recorded in Field 260 under the subfield "c." If a work is a periodical, then its publication frequency is recorded in Field 310, and the publication dates (e.g., the first and last publication) are recorded in Field 362, which is also referred to as the enumeration/chronology field.[14]

38. The library that created the record is recorded in Field 040 in subfield "a" with a unique library code. When viewing the MARC record online via Online Computer Library Center's ("OCLC") bibliographic database, hovering over this

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[13] http://www.loc.gov/marc/bibliographic/

[14] http://www.loc.gov/marc/bibliographic/bd3xx.html

code with the mouse reveals the full name of the library. I used this method of "mousing over" the library codes in the OCLC database to identify the originating library for the MARC records discussed in this declaration. Where this "mouse over" option was not available, I consulted the Directory of OCLC Libraries to identify the institution that created the MARC record.[15]

39. MARC records also include several fields that include subject matter classification information. An overview of MARC record fields is available through the Library of Congress.[16] For example, 6XX fields are termed "Subject Access Fields."[17] Among these, for example, is the 650 field; this is the "Subject Added Entry – Topical Term" field.[18] The 650 field is a "[s]ubject added entry in which the entry element is a topical term." These entries "are assigned to a bibliographic record to provide access according to generally accepted thesaurus-building rules (e.g., *Library of Congress Subject Headings* (LCSH), *Medical Subject Headings* (MeSH))." *Id.* Further, MARC records include call numbers, which themselves include a classification number. For example, the 050 field is the "Library of

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[15] https://www.oclc.org/en/contacts/libraries.html

[16] http://www.loc.gov/marc/bibliographic/

[17] http://www.loc.gov/marc/bibliographic/bd6xx.html

[18] http://www.loc.gov/marc/bibliographic/bd650.html

Congress Call Number."[19] A defined portion of the Library of Congress Call (LCC) Number is the classification number, and "source of the classification number is *Library of Congress Classification* and the *LC Classification-Additions and Changes*." Thus, included in the 050 field is a subject matter classification. Further, the 082 field is the "Dewey Decimal Call Number."[20] A defined portion of the Dewey Decimal Call (DDC) Number is the classification number, and "source of the classification number is the *Dewey Decimal Classification and Relative Index*." Thus, included in the 082 field is a subject matter classification. Each item in a library has a single classification number. A library selects a classification scheme (*e.g.*, the Library of Congress classification scheme just described or a similar scheme such as the Dewey Decimal classification scheme) and uses it consistently. When the Library of Congress assigns the LCC classification number, it appears as part of the 050 field. When the Library of Congress assigns the DDC classification number, it appears as part of the 082 field. If a local library assigns the classification number, it appears in a 090 field. In either scenario, the MARC record includes a classification number that represents a subject matter classification.

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[19] http://www.loc.gov/marc/bibliographic/bd050.html

[20] http://www.loc.gov/marc/bibliographic/bd082.html

C. OCLC

40. The OCLC was created "to establish, maintain and operate a computerized library network and to promote the evolution of library use, of libraries themselves, and of librarianship, and to provide processes and products for the benefit of library users and libraries, including such objectives as increasing availability of library resources to individual library patrons and reducing the rate of rise of library per-unit costs, all for the fundamental public purpose of furthering ease of access to and use of the ever-expanding body of worldwide scientific, literary and educational knowledge and information."[21] Among other services, OCLC and its members are responsible for maintaining the WorldCat database,[22] used by independent and institutional libraries throughout the world.

41. OCLC also provides its members online access to MARC records through its OCLC bibliographic database. When an OCLC member institution acquires a work, it creates a MARC record for this work in its computer catalog system in the ordinary course of its business. MARC records created at the Library of Congress are directly uploaded or may be tape-loaded into the OCLC database

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[21] Third Article, Amended Articles of Incorporation of OCLC Online Computer Library Center, Incorporated (available at https://www.oclc.org/content/dam/oclc/membership/articles-of-incorporation.pdf).

[22] http://www.worldcat.org/

through a subscription to MARC Distribution Services daily or weekly. Once the MARC record is created by a cataloger at an OCLC member institution or is tape-loaded from a participating institution, the MARC record is then made available to any other OCLC members online, and therefore made available to the public. Accordingly, once the MARC record is created by a cataloger at an OCLC member institution or is tape-loaded from the Library of Congress or another library anywhere in the world, any publication corresponding to the MARC record has been cataloged and indexed according to its subject matter such that a person interested in that subject matter could, with reasonable diligence, locate and access the publication through any library with access to the OCLC bibliographic database or through the Library of Congress.

42. When an OCLC member institution creates a new MARC record, OCLC automatically supplies the date of creation for that record. The date of creation for the MARC record appears in the fixed field (008), characters 00 through 05. The MARC record creation date reflects the date on which, or shortly after which, the item was first acquired or cataloged. Initially, field 005 of the MARC record is automatically populated with the date the MARC record was created in year, month, day format (YYYYMMDD) (some of the newer library catalog systems also include hour, minute, second (HHMMSS)). Thereafter, the library's computer system may automatically update the date in field 005 every time the library updates

the MARC record (*e.g.*, to reflect that an item has been moved to a different shelving location within the library). Field 005 is visible when viewing a MARC record via an appropriate computerized interface. The date upon which the most recent update to field 005. Thus, when an item's MARC record has been printed to hardcopy—as is the case with the exhibits to this report—the date reflected in field 008 is necessarily on or after the date the library first cataloged and indexed the underlying item.

43. Once one library has cataloged and indexed a publication by creating a MARC record for that publication, other libraries that receive the publication do not create additional MARC records—the other libraries instead rely on the original MARC record. They may update or revise the MARC record to ensure accuracy, but they do not replace or duplicate it. This practice does more than save libraries from duplicating labor. It also enhances the accuracy of MARC records. Further, it allows librarians around the world to know that a particular MARC record is authoritative (in contrast, a hypothetical system wherein duplicative records were created would result in confusion as to which record is authoritative).

44. The date of creation of the MARC record by a cataloger at an OCLC member institution reflects when the underlying item is accessible to the public. Upwards of two-thirds to three-quarters of book sales to libraries come from a jobber or wholesaler for online and print resources. These resellers make it their business

to provide books to their customers as fast as possible, often providing turnaround times of only a single day after publication. Libraries purchase a significant portion of the balance of their books directly from publishers themselves, which provide delivery on a similarly expedited schedule. In general, libraries make these purchases throughout the year as the books are published and shelve the books as soon thereafter as possible in order to make the books available to their patrons. Thus, books are generally available at libraries across the country within just a few days of publication.

V. PUBLICATIONS

A. Document 1: Exhibit 1007 ("Wolchok 2010")

45. Exhibit 1007 is a copy of the journal article titled "Ipilimumab monotherapy in patients with pretreated advanced melanoma: a randomized, double-blind, multicentre, phase 2, dose-ranging study" by Jedd D. Wolchok, Bart Neyns, Gerald Linette, Sylvie Negrier, Jose Lutzky, Luc Thomas, William Waterfield, Dirk Schadendorf, Michael Smylie, Troy Guthrie Jr, Jean-Jacques Grob, Jason Chesney, Kevin Chin, Kun Chen, Axel Hoos, Steven J O'Day, and Celeste Lebbé (hereafter "Wolchok 2010"). The Wolchok 2010 article was published in Volume 11, Issue 2 of the journal titled *The Lancet Oncology* and was found in the University of Maryland Baltimore County Library. The Wolchok 2010 article appears beginning on page 155 of this issue dated February 2010. Exhibit 1007 is a true and correct

copy of the Wolchok 2010 article (pages 155-164). Specifically, the text of the article is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. The Wolchok 2010 article is available from the publisher,[23] *Science Direct* database published by Elsevier,[24] through the National Library of Medicine,[25] and in the digital repository *ResearchGate.*[26] The publisher's website indicates that the Wolchok 2010 article was publicly available on December 9, 2009. Exhibit 1007 was found within the custody of a library – a place where an authentic copy of this journal would likely be. Exhibit 1007 is a true and correct copy in a condition that creates no suspicion about its authenticity.

46. Attached hereto as Attachment 1A is a true and correct copy of the MARC record for the journal titled *The Lancet Oncology* from the University of Maryland Baltimore County Library online catalog. Library ownership is indicated

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[23] https://www.thelancet.com/journals/lanonc/article/PIIS1470-2045(09)70334-1/abstract

[24] https://www.sciencedirect.com/science/article/abs/pii/S1470204509703341

[25] https://pubmed.ncbi.nlm.nih.gov/20004617/

[26] https://www.researchgate.net/publication/40682461_Ipilimumab_monotherapy_in_patients_with_pretreated_advanced_melanoma_A_randomised_double-blind_multicentre_phase_2_dose-ranging_study

by the presence of the library's code ("MUB") in field 049. The library continues to update this MARC record and enhanced the MARC record to meet current cataloging rules. The most recent enhancement to Attachment 1A occurred on November 15, 2019, as shown in field 005 ("20191115"). I personally identified and retrieved the MARC record that is Attachment 1A.

47. Based on finding a print copy of Exhibit 1007 in the University of Maryland Baltimore County Library and MARC record in its online library catalog attached as Attachment 1A, it is my opinion that the Wolchok 2010 article published in the journal titled *The Lancet Oncology* was publicly available on December 9, 2009, as indicated on the publisher's website.

48. Attachment 1A includes an entry in field 050 ("RC254.A1 $b L36")—as described above, a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system) and an entry in field 060 ("W1 $b LA453V")—as described above, a subject matter classification number consistent with the National Library of Medicine classification system (analogous to the Dewey Decimal classification system). Attachment 1A also shows that Exhibit 1007 was catalogued with two descriptor terms reading "Oncology $v Periodicals" (see Attachment 1B, Library of Congress subject heading sh2010104402) and "Neoplasms" (see Attachment 1C, National Library of Medicine subject heading D009369) in the 650 fields.

49. As noted in the holdings information (362 field), the University of Maryland Baltimore County Library has received the journal titled *The Lancet Oncology* since September 2000 and continues to receive the publication. In view of the MARC record for Exhibit 1007, the Wolchok 2010 article was publicly available on December 9, 2009, because the serial title had been received, cataloged, and indexed in the University of Maryland Baltimore County Library and made part of its online catalog database.

50. Attached hereto as Attachment 1D is a true and correct copy of the MARC record for the journal titled *The Lancet Oncology* obtained from the OCLC bibliographic database. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 1D, that library code is "NSD," which means that the MARC record for this serial was cataloged as part of the National Serials Data Program at the Library of Congress. As can be seen in field 008 ("Date entered on file"), a cataloger at the Library of Congress created OCLC record number 45075773 on September 26, 2000 ("000926"). The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to Attachment 1D occurred on August 29, 2020, as shown in field 005 ("20200829"). I personally identified and retrieved the MARC record that is Attachment 1D. The "BLvl" entry in Attachment 1D is "s," which indicates that the journal titled *The Lancet Oncology* is a serial publication. Field

310 of Attachment 1D reads "Monthly." Accordingly, the MARC record for Exhibit 1007 corresponds to the journal titled *The Lancet Oncology* from the time the serial began publication and includes the date of the Wolchok 2010 article.

51. Attachment 1D includes an entry in 050 ("RC254.A1 $b L36")—as described above, a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system) and an entry in field 060 ("W1 $b LA453V")—as described above, a subject matter classification number consistent with the National Library of Medicine classification system (analogous to the Dewey Decimal classification system). Attachment 1D also shows that Exhibit 1007 was catalogued with two descriptor terms reading "Oncology $v Periodicals" (see Attachment 1B, Library of Congress subject heading sh2010104402) and "Neoplasms" (see Attachment 1C, National Library of Medicine subject heading D009369) in the 650 fields. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 1D was indexed according to its subject matter by virtue of at least three independently sufficient classifications: the field 050 entry, the field 060 entry, and the field 650 entries. As of September 26, 2000, the MARC record attached hereto as Attachment 1D was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that subscribed to the serial, which means that the corresponding publication was publicly available on or before

that same date through any library with access to the OCLC bibliographic database or through an individual library.

52. WorldCat indicates that the journal titled *The Lancet Oncology* as cataloged at the Library of Congress is currently available from 1,463 libraries.[27] In view of the above, this issue of the journal titled *The Lancet Oncology* was publicly available on December 9, 2009, because by that date it had been cataloged and indexed at the Library of Congress, made part of the OCLC bibliographic database, and received at the University of Maryland Baltimore County Library. For these reasons, it is my opinion that Exhibit 1007 was published and accessible to the public on December 9, 2009.

B. Document 2: Exhibit 1009 ("Sznol")

53. Exhibit 1009 is a copy of the oral abstract titled "Safety and antitumor activity of biweekly MDX-1106 (Anti-PD-1, BMS-936558/ONO4538) in patients with advanced refractory malignancies" by M. Sznol, J. D. Powderly, D. C. Smith, J. R. Brahmer, C. G. Drake, D. F. McDermott, D. P. Lawrence, J. D. Wolchok, S. L. Topalian, and I. Lowy (hereafter "Sznol"). The Sznol oral abstract was published in Volume 28, Number 15S of the *Journal of Clinical Oncology* and was found in the Ebling Health Sciences Library at the University of Wisconsin – Madison. The

[27] https://search.worldcat.org/title/45075773

Sznol oral abstract appears on page 205s of this issue dated May 20, 2010. Exhibit 1009 is a true and correct copy of the Sznol oral abstract. Specifically, the text of the oral abstract is complete; no pages are missing, and the text on each page appears to flow seamlessly; further, there are no visible alterations to the document. The Sznol oral abstract is available from the publisher[28] and in the digital repository *ResearchGate.*[29] Exhibit 1009 was found within the custody of a library – a place where an authentic copy of this journal would likely be. Exhibit 1009 is a true and correct copy in a condition that creates no suspicion about its authenticity.

54. Attached hereto as Attachment 2A is a true and correct copy of the MARC record for the *Journal of Clinical Oncology* from the Ebling Health Sciences Library at the University of Wisconsin – Madison online catalog. Library ownership is indicated by the presence of the library's code ("uwmadisondb") in the fourth field 035. The library continues to update this MARC record and enhanced the MARC record to meet current cataloging rules. The most recent enhancement to Attachment 2A occurred on April 9, 2015, as shown in field 005 ("20150409"). I personally

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[28] https://ascopubs.org/doi/10.1200/jco.2010.28.15_suppl.2506

[29] https://www.researchgate.net/publication/313955517_Safety_and_antitumor_activity_of_biweekly_MDX-1106_Anti-PD-1_BMS-936558ONO-4538_in_patients_with_advanced_refractory_malignancies

identified and retrieved the MARC record that is Attachment 2A.

55. Based on finding a print copy of Exhibit 1009 in the Ebling Health Sciences Library at the University of Wisconsin – Madison and MARC record in its online library catalog attached as Attachment 2A, it is my opinion that the Sznol oral abstract published in the *Journal of Clinical Oncology* was publicly available on June 2, 2010, as indicated by the stamp on the cover (Exhibit 1009, page 1). This date stamp has the general appearance of date stamps that libraries have long affixed to periodicals to show when an issue was received, verified, and checked.

56. Attachment 2A includes an entry in field 060 ("W1 $b JO5895")—as described above, a subject matter classification number consistent with the National Library of Medicine classification system (analogous to the Dewey Decimal classification system) and an entry in field 082 ("616")—as described above, a subject matter classification number consistent with the Dewey Decimal classification system. Attachment 2A also shows that Exhibit 1009 was catalogued with a descriptor term reading "Medical Oncology $v periodical" (see Attachment 2B, National Library of Medicine subject heading D008495) in the 650 field.

57. As noted in the holdings information (362 field), the Ebling Health Sciences Library at the University of Wisconsin – Madison has received the *Journal of Clinical Oncology* since January 1983 and continues to receive the publication. In view of the MARC record for Exhibit 1009, the Sznol oral abstract was publicly

available on June 2, 2010, because the serial title had been received, cataloged, and indexed in the Ebling Health Sciences Library at the University of Wisconsin – Madison and made part of its online catalog database.

58. Attached hereto as Attachment 2C is a true and correct copy of the MARC record for the *Journal of Clinical Oncology* obtained from the OCLC bibliographic database. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 2C, that library code is "NSD," which means that the MARC record for this serial was cataloged as part of the National Serials Data Program at the Library of Congress. As can be seen in field 008 ("Date entered on file"), a cataloger at the Library of Congress created OCLC record number 8320014 on April 8, 1982 ("820408"). The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to Attachment 2C occurred on April 15, 2024, as shown in field 005 ("20240415"). I personally identified and retrieved the MARC record that is Attachment 2C. The "BLvl" entry in Attachment 2C is "s," which indicates that the *Journal of Clinical Oncology* is a serial publication. Field 310 of Attachment 2C reads "Three times a month $b 2005-." Accordingly, the MARC record for Exhibit 1009 corresponds to the *Journal of Clinical Oncology* from the time the serial began publication and includes the date of the Sznol oral abstract.

59. Attachment 2C includes an entry in 050 ("RC254.A1 $b J68")—as

described above, a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system), an entry in field 060 ("W1 $b JO5894H")—as described above, a subject matter classification number consistent with the National Library of Medicine classification system (analogous to the Dewey Decimal classification system), and an entry in field 082 ("616")—as described above, a subject matter classification number consistent with the Dewey Decimal classification system. Attachment 2C also shows that Exhibit 1009 was catalogued with three descriptor terms reading "Oncology $v Periodicals" (see Attachment 1B, Library of Congress subject heading sh2010104402), "Cancer $v Periodicals" (see Attachment 2D, Library of Congress subject heading sh2008100056), and "Medical Oncology" (see Attachment 2B, National Library of Medicine subject heading D008495) in the 650 fields. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 2C was indexed according to its subject matter by virtue of at least four independently sufficient classifications: the field 050 entry, the field 060 entry, the field 082 entry, and the field 650 entries. As of April 8, 1982, the MARC record attached hereto as Attachment 2C was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that subscribed to the serial, which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic

database or through an individual library.

60. WorldCat indicates that the *Journal of Clinical Oncology* as cataloged at the Library of Congress is currently available from 1,030 libraries.[30] In view of the above, this issue of the *Journal of Clinical Oncology* was publicly available on June 2, 2010, because by that date it had been cataloged and indexed at the Library of Congress, made part of the OCLC bibliographic database, and received in the Ebling Health Sciences Library at the University of Wisconsin -- Madison. For these reasons, it is my opinion that Exhibit 1009 was published and accessible to the public on June 2, 2010.

C. Document 3: Exhibit 1010 ("Fife")

61. Exhibit 1010 is a copy of the journal article titled "Control of peripheral T-cell tolerance and autoimmunity via the CTLA-4 and PD-1 pathways" by Brian T. Fife and Jeffrey A. Bluestone (hereafter "Fife"). The Fife article was published in Volume 224, Issue 1 of the journal titled *Immunological Reviews* and was found in the University of Maryland Baltimore County Library. The Fife article appears beginning on page 166 of this issue dated August 2008. Exhibit 1010 is a true and correct copy of the Fife article (pages 166-182). Specifically, the text of the article is complete; no pages are missing, and the text on each page appears to flow

[30] https://search.worldcat.org/title/8320014

seamlessly from one page to the next; further, there are no visible alterations to the document. The Fife article is available from the publisher,[31] Wiley, through the National Library of Medicine,[32] and in the digital repository *ResearchGate.*[33] The publisher's website indicates that the Fife article was publicly available on August 4, 2008. Exhibit 1010 was found within the custody of a library – a place where an authentic copy of this journal would likely be. Exhibit 1010 is a true and correct copy in a condition that creates no suspicion about its authenticity.

62. Attached hereto as Attachment 3A is a true and correct copy of the MARC record for the journal titled *Immunological Reviews* from the University of Maryland Baltimore County Library online catalog. Library ownership is indicated by the presence of the library's code ("MDU") in field 049. The library continues to update this MARC record and enhanced the MARC record to meet current cataloging rules. The most recent enhancement to Attachment 3A occurred on January 14, 2008, as shown in field 005 ("20080114"). I personally identified and retrieved the MARC record that is Attachment 3A.

63. Based on finding a print copy of Exhibit 1010 in the University of

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[31] https://onlinelibrary.wiley.com/doi/10.1111/j.1600-065X.2008.00662.x

[32] https://pubmed.ncbi.nlm.nih.gov/18759926/

[33] https://www.researchgate.net/publication/23226245_Control_of_peripheral_T-cell_tolerance_and_autoimmunity_via_the_CTLA-4_and_PD-1_pathways

Maryland Baltimore County Library and MARC record in its online library catalog attached as Attachment 3A, it is my opinion that the Fife article published in the journal titled *Immunological Reviews* was publicly available on August 4, 2008, as indicated on the publisher's website.

64. Attachment 3A includes an entry in field 090 ("QR180 $b .I4")—as described above, a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system) and an entry in field 060 ("W1 $b IM512")—as described above, a subject matter classification number consistent with the National Library of Medicine classification system (analogous to the Dewey Decimal classification system). system. Attachment 3A also shows that Exhibit 1010 was catalogued with four descriptor terms reading "Immunology $v Periodicals" (see Attachment 3B, Library of Congress subject heading sh2008104308), "Transplantation of organs, tissues, etc. $v Periodicals" (see Attachment 3C, Library of Congress subject heading sh85137008 and Attachment 3D, Library of Congress subject heading sh85099890), "Allergy and Immunology" (see Attachment 3E, National Library of Medicine subject heading D000486), and "Transplantation" (see Attachment 3F, National Library of Medicine subject heading D014180) in the 650 fields.

65. As noted in the holdings information (362 field), the University of Maryland Baltimore County Library has received the "Neoplasms" (see Attachment

1C, National Library of Medicine subject heading D009369) journal titled *Immunological Reviews* since 1977 and continues to receive the publication.[34] In view of the MARC record for Exhibit 1010, the Fife article was publicly available on August 4, 2008, because the serial title had been received, cataloged, and indexed in the University of Maryland Baltimore County Library and made part of its online catalog database.

66. Attached hereto as Attachment 3G is a true and correct copy of the MARC record for the journal titled *Immunological Reviews* obtained from the OCLC bibliographic database. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 3G, that library code is "PIT," which means that the MARC record for this serial was cataloged at the University of Pittsburgh Libraries (Pittsburgh, Pennsylvania). As can be seen in field 008 ("Date entered on file"), a cataloger at the University of Pittsburgh Libraries created OCLC record number 2885127 on April 13, 1977 ("770413"). The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to Attachment 3G occurred on August 9, 2022, as shown in field 005 ("20220809"). I personally identified and

[34] The publication was originally titled *Transplantation Reviews* (1969-1976) and adopted the current title in 1977.

retrieved the MARC record that is Attachment 3G. The "BLvl" entry in Attachment 3G is "s," which indicates that the journal titled *Immunological Reviews* is a serial publication. Field 310 of Attachment 3G reads "Bimonthly, $b Aug. 1984-." Accordingly, the MARC record for Exhibit 1010 corresponds to the journal titled *Immunological Reviews* from the time the serial adopted the current title and includes the date of the Fife article.

67. Attachment 3G includes an entry in 050 ("QR180 $b .I46")—as described above, a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system), an entry in field 060 ("W1 $b IM512")—as described above, a subject matter classification number consistent with the National Library of Medicine classification system (analogous to the Dewey Decimal classification system), and an entry in field 082 ("616.079")—as described above, a subject matter classification number consistent with the Dewey Decimal classification system. Attachment 3G also shows that Exhibit 1010 was catalogued with four descriptor terms reading "Immunology $v Periodicals" (see Attachment 3B, Library of Congress subject heading sh2008104308), "Transplantation of organs, tissues, etc. $v Periodicals" (see Attachment 3C, Library of Congress subject heading sh85137008 and Attachment 3D, Library of Congress subject heading sh85099890), "Allergy and Immunology" (see Attachment 3E, National Library of Medicine subject heading

D000486), and "Transplantation" (see Attachment 3F, National Library of Medicine subject heading D014180) in the 650 fields. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 3G was indexed according to its subject matter by virtue of at least four independently sufficient classifications: the field 050 entry, the field 060 entry, the field 082 entry, and the field 650 entries. As of April 13, 1977, the MARC record attached hereto as Attachment 3G was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that subscribed to the serial, which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

68. WorldCat indicates that the journal titled *Immunological Reviews* as cataloged at the University of Pittsburgh Libraries is currently available from 1,544 libraries.[35] In view of the above, this issue of the journal titled *Immunological Reviews* was publicly available on August 4, 2008, because by that date it had been cataloged and indexed at the University of Pittsburgh Libraries, made part of the OCLC bibliographic database, and received at the University of Maryland Baltimore County Library. For these reasons, it is my opinion that Exhibit 1010 was published

[35] https://search.worldcat.org/title/2885127

and accessible to the public on August 4, 2008.

D. Document 4: Exhibit 1019 ("Dillard")

69. Exhibit 1019 is a copy of the journal article titled "Anti-CTLA-4 antibody therapy associated autoimmune hypophysitis: serious immune related adverse events across a spectrum of cancer subtypes" by Troy Dillard, Chris G. Yedinak, Joshi Alumkal, and Maria Fleseriu (hereafter "Dillard"). The Dillard article was published in Volume 13, Number 1 of the journal titled *Pituitary* and was found in the University of California – Los Angeles Libraries. The Dillard article appears beginning on page 29 of this issue dated 2010. Exhibit 1019 is a true and correct copy of the Dillard article (pages 29-38). Specifically, the text of the article is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. The Dillard article is available from the publisher,[36] Springer, through the National Library of Medicine,[37] and in the digital repository *Semantic Scholar*.[38] The publisher's website indicates that the Dillard article was publicly available on

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[36] https://link.springer.com/article/10.1007/s11102-009-0193-z

[37] https://pubmed.ncbi.nlm.nih.gov/19639414/

[38] https://www.semanticscholar.org/paper/Anti-CTLA-4-antibody-therapy-associated-autoimmune-Dillard-Yedinak/b1f792cd5c9c607e0e5a3a194048dff72882ba49

July 29, 2009. Exhibit 1019 was found within the custody of a library – a place where an authentic copy of this journal would likely be. Exhibit 1019 is a true and correct copy in a condition that creates no suspicion about its authenticity.

70. Attached hereto as Attachment 4A is a true and correct copy of the MARC record for the journal titled *Pituitary* from the University of California – Los Angeles Libraries online catalog. Library ownership is indicated by the presence of the library's code ("CLY") in field 049. The library continues to update this MARC record and enhanced the MARC record to meet current cataloging rules. The most recent enhancement to Attachment 4A occurred on June 15, 2021, as shown in field 005 ("20210615"). I personally identified and retrieved the MARC record that is Attachment 4A.

71. Based on finding a print copy of Exhibit 1019 in the University of California – Los Angeles Libraries and MARC record in its online library catalog attached as Attachment 4A, it is my opinion that the Dillard article published in the journal titled *Pituitary* was publicly available on July 29, 2009, as indicated on the publisher's website.

72. Attachment 4A includes an entry in field 050 ("RC658 $b .P556")—as described above, a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system) and an entry in field 060 ("W1 $b PI749")—as described above, a subject

matter classification number consistent with the National Library of Medicine classification system (analogous to the Dewey Decimal classification system). system. Attachment 4A also shows that Exhibit 1019 was catalogued with six descriptor terms reading "Pituitary gland $x Diseases $v Periodicals" (see Attachment 4B, Library of Congress subject heading sh85102520 and Attachment 3D, Library of Congress subject heading sh85099890), "Pituitary gland $v Periodicals" (see Attachment 4C, Library of Congress subject heading s85102519 and Attachment 3D, Library of Congress subject heading sh85099890), "Pituitary hormones $v Periodicals" (see Attachment 4D, Library of Congress subject heading sh85102529 and Attachment 3D, Library of Congress subject heading sh85099890), "Pituitary Diseases" (see Attachment 4F, National Library of Medicine subject heading D010900), "Pituitary Gland" (see Attachment 4E, National Library of Medicine subject heading D010902) and "Pituitary Hormones" (see Attachment 4G, National Library of Medicine subject heading D010907) in the 650 fields.

73. As noted in the holdings information (362 field), the University of California – Los Angeles Libraries has received the journal titled *Pituitary* since April 1998 and continues to receive the publication. In view of the MARC record for Exhibit 1019, the Dillard article was publicly available on July 29, 2009, because the serial title had been received, cataloged, and indexed in the University of California – Los Angeles Libraries and made part of its online catalog database.

74. Attached hereto as Attachment 4H is a true and correct copy of the MARC record for the journal titled *Pituitary* obtained from the OCLC bibliographic database. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 4H, that library code is "NLM," which means that the MARC record for this serial was cataloged at the National Library of Medicine (Bethesda, Maryland). As can be seen in field 008 ("Date entered on file"), a cataloger at the National Library of Medicine created OCLC record number 39984609 on September 24, 1998 ("980924"). The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to Attachment 4H occurred on November 19, 2018, as shown in field 005 ("20181119"). I personally identified and retrieved the MARC record that is Attachment 4H. The "BLvl" entry in Attachment 4H is "s," which indicates that the journal titled *Pituitary* is a serial publication. Field 310 of Attachment 4H reads "Four issues a year." Accordingly, the MARC record for Exhibit 1019 corresponds to the journal titled *Pituitary* from the time the serial began publication and includes the date of the Dillard article.

75. Attachment 4H includes an entry in 050 ("RC658 $b .P556")—as described above, a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system) and an entry in field 060 ("W1 $b PI749")—as described above, a subject

matter classification number consistent with the National Library of Medicine classification system (analogous to the Dewey Decimal classification system). Attachment 4H also shows that Exhibit 1019 was catalogued with six descriptor terms reading "Pituitary gland $x Diseases $v Periodicals" (see Attachment 4B, Library of Congress subject heading sh85102520 and Attachment 3D, Library of Congress subject heading sh85099890), "Pituitary gland $v Periodicals" (see Attachment 4C, Library of Congress subject heading s85102519 and Attachment 3D, Library of Congress subject heading sh85099890), "Pituitary hormones $v Periodicals" (see Attachment 4D, Library of Congress subject heading sh85102529 and Attachment 3D, Library of Congress subject heading sh85099890), "Pituitary Diseases" (see Attachment 4F, National Library of Medicine subject heading D010900), "Pituitary Gland" (see Attachment 4E, National Library of Medicine subject heading D010902) and "Pituitary Hormones" (see Attachment 4G, National Library of Medicine subject heading D010907) in the 650 fields. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 4H was indexed according to its subject matter by virtue of at least three independently sufficient classifications: the field 050 entry, the field 060 entry, and the field 650 entries. As of September 24, 1998, the MARC record attached hereto as Attachment 4H was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that subscribed to the serial,

which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

76. WorldCat indicates that the journal titled *Pituitary* as cataloged at the National Library of Medicine is currently available from 1,133 libraries.[39] In view of the above, this issue of the journal titled *Pituitary* was publicly available on July 29, 2009, because by that date it had been cataloged and indexed at the National Library of Medicine, made part of the OCLC bibliographic database, and received at the University of California – Los Angeles Libraries. For these reasons, it is my opinion that Exhibit 1019 was published and accessible to the public on July 29, 2009.

E. Document 5: Exhibit 1020 ("Di Giacomo")

77. Exhibit 1020 is a copy of the journal article titled "The Emerging Toxicity Profiles of Anti-CTLA-4 Antibodies Across Clinical Indications" by Anna Maria Di Giacomo, Maurizio Biagioli, and Michele Maio (hereafter "Di Giacomo"). The Di Giacomo article was published in Volume 37, Number 5 of the journal titled *Seminars in Oncology* and was found in the Baystate Medical Center Health Science Library (Springfield, Massachusetts). The Di Giacomo article appears beginning on

[39] https://search.worldcat.org/title/39984609

page 499 of this issue dated October 2010. Exhibit 1020 is a true and correct copy of the Di Giacomo article (pages 499-507). Specifically, the text of the article is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. The Di Giacomo article is available from the publisher,[40] Elsevier, through the National Library of Medicine,[41] and in the digital repository *ResearchGate.*[42] The publisher's website indicates that the Di Giacomo article was publicly available on November 10, 2010. Exhibit 1020 was found within the custody of a library – a place where an authentic copy of this journal would likely be. Exhibit 1020 is a true and correct copy in a condition that creates no suspicion about its authenticity.

78. Attached hereto as Attachment 5A is a true and correct copy of the metadata record for the journal titled *Seminars in Oncology* from the Baystate Medical Center Health Science Library online catalog. Library ownership is indicated by the presence of the library's name at the top of the page. I personally

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[40] https://www.sciencedirect.com/science/article/abs/pii/S0093775410001612

[41] https://pubmed.ncbi.nlm.nih.gov/21074065/

[42] https://www.researchgate.net/publication/47789497_The_Emerging_Toxicity_Profiles_of_Anti-CTLA-4_Antibodies_Across_Clinical_Indications

identified and retrieved the MARC record that is Attachment 5A.

79. Based on finding a print copy of Exhibit 1020 in the Baystate Medical Center Health Science Library and metadata record in its online library catalog attached as Attachment 5A, it is my opinion that the Di Giacomo article published in the journal titled *Seminars in Oncology* was publicly available on November 10, 2010, as indicated on the publisher's website.

80. Attachment 5A also shows that Exhibit 1020 was catalogued with two descriptor terms reading "Oncology $v Periodicals" (see Attachment 1B, Library of Congress subject heading sh2010104402) and "Neoplasms" (see Attachment 1C, National Library of Medicine subject heading D009369) in the subject fields.

81. As noted in the holdings information, the Baystate Medical Center Health Science Library has received the journal titled *Seminars in Oncology* since 1974 and continues to receive the publication. In view of the metadata record for Exhibit 1020, the Di Giacomo article was publicly available on November 10, 2010, because the serial title had been received, cataloged, and indexed in the Baystate Medical Center Health Science Library and made part of its online catalog database.

82. Attached hereto as Attachment 5B is a true and correct copy of the MARC record for the journal titled *Seminars in Oncology* obtained from the OCLC bibliographic database. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 5B, that library

code is "DLC," which means that the MARC record for this serial was cataloged at the Library of Congress. As can be seen in field 008 ("Date entered on file"), a cataloger at the Library of Congress created OCLC record number 1793234 on July 24, 1974 ("740724"). The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to Attachment 5B occurred on April 30, 2023, as shown in field 005 ("20230430"). I personally identified and retrieved the MARC record that is Attachment 5B. The "BLvl" entry in Attachment 5B is "s," which indicates that the journal titled *Seminars in Oncology* is a serial publication. Field 310 of Attachment 5B reads "Bimonthly." Accordingly, the MARC record for Exhibit 1020 corresponds to the journal titled *Seminars in Oncology* from the time the serial began publication and includes the date of the Di Giacomo article.

83. Attachment 5B includes an entry in 050 ("RC261 $b .A4313")—as described above, a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system), an entry in field 060 ("W1 $b SE489E")—as described above, a subject matter classification number consistent with the National Library of Medicine classification system (analogous to the Dewey Decimal classification system), and an entry in field 082 ("616.9/92/005")—as described above, a subject matter classification number consistent with the Dewey Decimal classification system.

Attachment 5B also shows that Exhibit 1020 was catalogued with two descriptor terms reading "Oncology $v Periodicals" (see Attachment 1B, Library of Congress subject heading sh2010104402) and "Neoplasms" (see Attachment 1C, National Library of Medicine subject heading D009369) in the 650 fields. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 5B was indexed according to its subject matter by virtue of at least four independently sufficient classifications: the field 050 entry, the field 060 entry, the field 082 entry, and the field 650 entries. As of July 24, 1974, the MARC record attached hereto as Attachment 5B was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that subscribed to the serial, which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

84. WorldCat indicates that the journal titled *Seminars in Oncology* as cataloged at the Library of Congress is currently available from 1,440 libraries.[43] In view of the above, this issue of the journal titled *Seminars in Oncology* was publicly available on November 10, 2010, because by that date it had been cataloged and indexed at the Library of Congress, made part of the OCLC bibliographic database,

[43] https://search.worldcat.org/title/1793234

and received at the Baystate Medical Center Health Science Library. For these reasons, it is my opinion that Exhibit 1020 was published and accessible to the public on November 10, 2010.

F. Document 6: Exhibit 1021 ("Weber")

85. Exhibit 1021 is a copy of the open access journal article titled "Review: Anti-CTLA-4 Antibody Ipilimumab: Case Studies of Clinical Response and Immune-Related Adverse Events" by Jeffrey Weber (hereafter "Weber"). The Weber article was published in Volume 12, Issue 7 of the open access journal titled *The Oncologist* and was found in the National Library of Medicine (Bethesda, Maryland). The Weber article appears beginning on page 864 of this issue dated July 1, 2007. Exhibit 1021 is a true and correct copy of the Weber article (pages 864-872). Specifically, the text of the article is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. The Weber article is available from the publisher,[44] Oxford Academic, through the National Library of Medicine,[45] and

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[44] https://academic.oup.com/oncolo/article/12/7/864/6410410?login=false#google_vignette

[45] https://pubmed.ncbi.nlm.nih.gov/17673617/

in the digital repository *ResearchGate*.[46] The publisher's website indicates that the Weber article was publicly available on July 1, 2007. Exhibit 1021 was found within the custody of a library – a place where an authentic copy of this journal would likely be. Exhibit 1021 is a true and correct copy in a condition that creates no suspicion about its authenticity.

86. Attached hereto as Attachment 6A is a true and correct copy of the MARC record for the open access journal titled *The Oncologist* from the National Library of Medicine online catalog. Library ownership is indicated by the presence of the library's code ("DNLM") in the first field 040. The library continues to update this MARC record and enhanced the MARC record to meet current cataloging rules. The most recent enhancement to Attachment 6A occurred on October 16, 2024, as shown in field 005 ("20241016"). I personally identified and retrieved the MARC record that is Attachment 6A.

87. Based on finding a print copy of Exhibit 1021 in the National Library of Medicine and MARC record in its online library catalog attached as Attachment 6A, it is my opinion that the Weber article published in the open access journal titled *The Oncologist* was publicly available on July 1, 2007, as indicated on the

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[46] https://www.researchgate.net/publication/6165009_Review_Anti_CTLA-4_Antibody_Ipilimumab_Case_Studies_of_Clinical_Response_and_Immune-Related_Adverse_Events

publisher's website.

88. Attachment 6A includes an entry in field 060 ("W1 $b ON105AM")—as described above, a subject matter classification number consistent with the National Library of Medicine classification system (analogous to the Dewey Decimal classification system). system. Attachment 6A also shows that Exhibit 1021 was catalogued with a descriptor term reading "Neoplasms" (see Attachment 1C, National Library of Medicine subject heading D009369) in the 650 field.

89. As noted in the holdings information (362 field), the National Library of Medicine has received the open access journal titled *The Oncologist* since 1996 and continues to receive the publication. In view of the MARC record for Exhibit 1021, the Weber article was publicly available on July 1, 2007, because the serial title had been received, cataloged, and indexed in the National Library of Medicine and made part of its online catalog database.

90. Attached hereto as Attachment 6B is a true and correct copy of the MARC record for the open access journal titled *The Oncologist* obtained from the OCLC bibliographic database. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 6B, that library code is "NSD," which means that the MARC record for this serial was cataloged as part of the National Serials Data program at the Library of Congress. As can be seen in field 008 ("Date entered on file"), a cataloger at the Library of

Congress created OCLC record number 32869243 on July 25, 1995 ("950725"). The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to Attachment 6B occurred on February 26, 2024, as shown in field 005 ("20240226"). I personally identified and retrieved the MARC record that is Attachment 6B. The "BLvl" entry in Attachment 6B is "s," which indicates that the open access journal titled *The Oncologist* is a serial publication. Field 310 of Attachment 6B reads "Monthly $b 2007-." Accordingly, the MARC record for Exhibit 1021 corresponds to the open access journal titled *The Oncologist* from the time the serial began publication and includes the date of the Weber article.

91. Attachment 6B includes an entry in 050 ("RC254.A1 $b O65")—as described above, a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system), an entry in field 060 ("W1 $b ON105AM")—as described above, a subject matter classification number consistent with the National Library of Medicine classification system (analogous to the Dewey Decimal classification system), and an entry in field 082 ("616")—as described above, a subject matter classification number consistent with the Dewey Decimal classification system. Attachment 6B also shows that Exhibit 1021 was catalogued with two descriptor terms reading "Oncology $v Periodicals" (see Attachment 1B, Library of Congress subject heading

sh2010104402) and "Neoplasms" (see Attachment 1C, National Library of Medicine subject heading D009369) in the 650 fields. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 6B was indexed according to its subject matter by virtue of at least four independently sufficient classifications: the field 050 entry, the field 060 entry, the field 082 entry, and the field 650 entries. As of July 25, 1995, the MARC record attached hereto as Attachment 6B was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that subscribed to the serial, which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

92. WorldCat indicates that the open access journal titled *The Oncologist* as cataloged at the National Library of Medicine is currently available from 882 libraries.[47] In view of the above, this issue of the open access journal titled *The Oncologist* was publicly available on July 1, 2007, because by that date it had been cataloged and indexed at the Library of Congress, made part of the OCLC bibliographic database, and received at the National Library of Medicine. For these reasons, it is my opinion that Exhibit 1021 was published and accessible to the public

[47] https://search.worldcat.org/title/32869243

on July 1, 2007.

G. Document 7: Exhibit 1022 ("Pardoll")

93. Exhibit 1022 is a copy of the journal article titled "The blockade of immune checkpoints in cancer immunotherapy" by Drew M. Pardoll (hereafter "Pardoll"). The Pardoll article was published in Volume 12, Number 4 of journal *Nature Reviews Cancer* and was found in the Library of UC Berkeley. The Pardoll article appears beginning on page 252 of this issue dated April 2012. Exhibit 1022 is a true and correct copy of the Pardoll article (pages 252-264). Specifically, the text of the article is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. The Pardoll article is available from the publisher[48] and through the National Library of Medicine.[49] The digital version of the Pardoll article was publicly available on March 22, 2012, as indicated on the publisher's website. Exhibit 1022 was found within the custody of a library – a place where an authentic copy of this journal would likely be. Exhibit 1022 is a true and correct copy in a condition that creates no suspicion about its authenticity.

94. Attached hereto as Attachment 7A is a true and correct copy of the

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[48] https://www.nature.com/articles/nrc3239

[49] https://pubmed.ncbi.nlm.nih.gov/22437870/

MARC record for journal *Nature Reviews Cancer* from the University of California – Berkeley Libraries online catalog. Library ownership is indicated by the presence of the library's code ("CUY") in the first field 035. The library continues to update this MARC record and enhanced the MARC record to meet current cataloging rules. The most recent enhancement to Attachment 7A occurred on July 2, 2024, as shown in field 005 ("20240702"). I personally identified and retrieved the MARC record that is Attachment 7A.

95. Based on finding a print copy of Exhibit 1022 in the University of California – Berkeley Libraries and MARC record in its online library catalog attached as Attachment 7A, it is my opinion that the Pardoll article published in the journal *Nature Reviews. Cancer* was publicly available in print on April 13, 2012, as shown by the label on the cover (Exhibit 1022, page 2). This date stamp has the general appearance of date stamps that libraries have long affixed to periodicals to show when an issue was received, verified, and checked.

96. Attachment 7A includes an entry in field 050 ("RC267 $b .N385")—as described above, a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system) and an entry in field 060 ("W1 $b NA839F")—as described above, a subject matter classification number consistent with the National Library of Medicine classification system (analogous to the Dewey Decimal classification system).

Attachment 7A also shows that Exhibit 1022 was catalogued with three descriptor terms reading "Cancer $x Research $v Periodicals" (see Attachment 7B, Library of Congress subject heading sh2009118254), "Cancer $v Periodicals" (see Attachment 2D, Library of Congress subject heading sh2008100056), and "Neoplasms" (see Attachment 1C, National Library of Medicine subject heading D009369) in the 650 fields.

97. As noted in the holdings information (362 field), the University of California – Berkeley Libraries has received journal *Nature Reviews. Cancer* since 2001 and continues to receive the publication. In view of the MARC record for Exhibit 1022, the Pardoll article was publicly available on March 22, 2012, because the serial title had been received, cataloged, and indexed at the Library of Congress and made part of its online catalog database.

98. Attached hereto as Attachment 7C is a true and correct copy of the MARC record for journal *Nature Reviews Cancer* obtained from the OCLC bibliographic database. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 7C, that library code is "NLM," which means that the MARC record for this serial was cataloged at the National Library of Medicine (Bethesda, Maryland). As can be seen in field 008 ("Date entered on file"), a cataloger at the National Library of Medicine created OCLC record number 48623853 on July 31, 2001 ("010731"). The library continues

to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to Attachment 7C occurred on August 4, 2020, as shown in field 005 ("20200804"). I personally identified and retrieved the MARC record that is Attachment 7C. The "BLvl" entry in Attachment 7C is "s," which indicates that the journal *Nature Reviews. Cancer* is a serial publication. Field 310 of Attachment 7C reads "Monthly." Accordingly, the MARC record for Exhibit 1022 corresponds to the journal *Nature Reviews. Cancer* from the time the serial title began publication and includes the date of the Pardoll article.

99. Attachment 7C includes an entry in 050 ("RC267 $b .N385")—as described above, a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system) and an entry in field 060 ("W1 $b NA839F")—as described above, a subject matter classification number consistent with the National Library of Medicine classification system (analogous to the Dewey Decimal classification system). Attachment 7C also shows that Exhibit 1022 was catalogued with three descriptor terms reading "Cancer $x Research $v Periodicals" (see Attachment 7B, Library of Congress subject heading sh2009118254), "Cancer $v Periodicals" (see Attachment 2D, Library of Congress subject heading sh2008100056), and "Neoplasms" (see Attachment 1C, National Library of Medicine subject heading D009369) in the 650 fields. Thus, as of its cataloging, the publication corresponding to the MARC record

attached hereto as Attachment 7C was indexed according to its subject matter by virtue of at least three independently sufficient classifications: the field 050 entry, the field 060 entry, and the field 650 entries. As of July 31, 2001, the MARC record attached hereto as Attachment 7C was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that subscribed to the serial, which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

100. WorldCat indicates that the journal *Nature Reviews. Cancer* as cataloged at the National Library of Medicine is currently available from 1,667 libraries.[50] In view of the above, this issue of the journal *Nature Reviews. Cancer* was publicly available on March 22, 2012, because by that date it had been cataloged and indexed at the National Library of Medicine, made part of the OCLC bibliographic database, and received at the University of California – Berkeley Libraries. For these reasons, it is my opinion that Exhibit 1022 was published and accessible to the public on March 22, 2012.

H. Document 8: Exhibit 1016 ("Okazaki")

101. Exhibit 1016 is a copy of the journal article titled "PD-1 and PD-1 ligands:

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[50] https://search.worldcat.org/title/48623853

from discovery to clinical application" by Taku Okazaki and Tasuku Honjo (hereafter "Okazaki"). The Okazaki article was published in Volume 19, Number 7 of the journal titled *International Immunology* and was found in the Health Sciences Library at the University of Washington (Seattle, Washington). The Okazaki article appears beginning on page 813 of this issue dated July 2, 2007. Exhibit 1016 is a true and correct copy of the Okazaki article (pages 813-824). Specifically, the text of the article is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. The Okazaki article is available from the publisher,[51] Oxford Academic, through the National Library of Medicine,[52] and the digital repositories *ReseachGate*[53] and *Semantic Scholar*.[54] The publisher's website indicates that the Okazaki article was publicly available on July 2, 2007. Exhibit 1016 was found within the custody of a library – a place where an authentic copy of this journal

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[51] https://academic.oup.com/intimm/article/19/7/813/698985?login=false

[52] https://pubmed.ncbi.nlm.nih.gov/17606980/

[53] https://www.researchgate.net/publication/6230730_Okazaki_T_Honjo_TPD-1_and_PD-1_ligands_from_discovery_to_clinical_application_Int_Immunol_19_813-824

[54] https://www.semanticscholar.org/paper/PD-1-and-PD-1-ligands%3A-from-discovery-to-clinical-Okazaki-Honjo/49bde0e800b46f1536a7a056e29f40d33e7933a2

would likely be. Exhibit 1016 is a true and correct copy in a condition that creates no suspicion about its authenticity.

102. Attached hereto as Attachment 8A is a true and correct copy of the MARC record for the journal titled *International Immunology* from the Health Sciences Library at the University of Washington online catalog. Library ownership is indicated by the presence of the library's code ("MAIN") in field 049. The library continues to update this MARC record and enhanced the MARC record to meet current cataloging rules. The most recent enhancement to Attachment 8A occurred on January 31, 2023, as shown in field 005 ("20230131"). I personally identified and retrieved the MARC record that is Attachment 8A.

103. Based on finding a print copy of Exhibit 1016 in the Health Sciences Library at the University of Washington and MARC record in its online library catalog attached as Attachment 8A, it is my opinion that the Okazaki article published in the journal titled *International Immunology* was publicly available on July 2, 2007, as indicated on the publisher's website.

104. Attachment 8A includes an entry in field 060 ("W1 $b IN7652BR")—as described above, a subject matter classification number consistent with the National Library of Medicine classification system (analogous to the Dewey Decimal classification system). system. Attachment 8A also shows that Exhibit 1016 was catalogued with two descriptor terms reading "Immunity" (see Attachment

8B, National Library of Medicine subject heading D007109) and "Immunity, Cellular" (see Attachment 8C, National Library of Medicine subject heading D007111) in the 650 fields.

105. As noted in the holdings information (362 field), the Health Sciences Library at the University of Washington has received the journal titled *International Immunology* since 1989 and continues to receive the publication. In view of the MARC record for Exhibit 1016, the Okazaki was publicly available on July 2, 2007, because the serial title had been received, cataloged, and indexed in the Health Sciences Library at the University of Washington and made part of its online catalog database.

106. Attached hereto as Attachment 8D is a true and correct copy of the MARC record for the journal titled *International Immunology* obtained from the OCLC bibliographic database. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 8D, that library code is "NLM," which means that the MARC record for this serial was cataloged at the National Library of Medicine. As can be seen in field 008 ("Date entered on file"), a cataloger at the National Library of Medicine created OCLC record number 2067176 on October 28, 1989 ("891028"). The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to Attachment 8D occurred on January 31, 2023, as shown in

field 005 (“20230131”). I personally identified and retrieved the MARC record that is Attachment 8D. The “BLvl” entry in Attachment 8D is “s,” which indicates that the journal titled *International Immunology Oncologist* is a serial publication. Field 310 of Attachment 8D reads “Monthly, $b 1990-.” Accordingly, the MARC record for Exhibit 1016 corresponds to the journal titled *International Immunology* from the time the serial began publication and includes the date of the Okazaki article.

107. Attachment 8D includes an entry in 050 (“QR180 $b .I54”)—as described above, a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system) and an entry in field 060 (“W1 $b IN7652BR”)—as described above, a subject matter classification number consistent with the National Library of Medicine classification system (analogous to the Dewey Decimal classification system). Attachment 8D also shows that Exhibit 1016 was catalogued with three descriptor terms reading “Immunology $v Periodicals” (see Attachment 8E, Library of Congress subject heading sh2008104308), “Immunity” (see Attachment 8B, National Library of Medicine subject heading D007109), and “Immunity, Cellular” (see Attachment 8C, National Library of Medicine subject heading D007111) in the 650 fields. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 8D was indexed according to its subject matter by virtue of at least two independently sufficient classifications: the field 060 entry

and the field 650 entries. As of October 28, 1989, the MARC record attached hereto as Attachment 8D was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that subscribed to the serial, which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

108. WorldCat indicates that the journal titled *International Immunology* as cataloged at the National Library of Medicine is currently available from 791 libraries.[55] In view of the above, this issue of the journal titled *International Immunology* was publicly available on July 2, 2007, because by that date it had been cataloged and indexed at the National Library of Medicine, made part of the OCLC bibliographic database, and received in the Health Sciences Library at the University of Washington. For these reasons, it is my opinion that Exhibit 1016 was published and accessible to the public on July 2, 2007.

I. Document 9: Exhibit 1030 ("Curran")

109. Exhibit 1030 is a copy of the journal article titled "PD-1 and CTLA-4 combination blockade expands infiltrating T cells and reduces regulatory T and myeloid cells within B16 melanoma tumors" by Michael A. Curran, Welby

[55] https://search.worldcat.org/title/465171530

Montalvo, Hideo Yagita, and James P. Allison (hereafter "Curran"). The Curran article was published in Volume 107, Number 9 of the *Proceedings of the National Academy of Sciences of the United States of America* and was found in the National Library of Medicine (Bethesda, Maryland). The Curran article appears beginning on page 4275 of this issue dated March 2, 2010. Exhibit 1030 is a true and correct copy of the Curran article (pages 4275-4280). Specifically, the text of the article is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. The Curran article is also available from the publisher, the National Academy of Sciences,[56] through the National Library of Medicine,[57] and through the digital repositories *ResearchGate*[58] and *Semantic Scholar*.[59] Exhibit 1030 was found within the custody of a library – a place where an authentic copy of this journal would likely be. Exhibit 1030 is a true and correct copy in a condition that creates

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[56] https://www.pnas.org/doi/full/10.1073/pnas.0915174107

[57] https://pubmed.ncbi.nlm.nih.gov/20160101/

[58] https://www.researchgate.net/publication/317239753_PD-1_and_CTLA-4_combination_blockade_expands_infiltrating_T_cells_and_reduces_regulatory_T_and_myeloid_cells_within_B16_melanoma_tumors

[59] https://www.semanticscholar.org/paper/PD-1-and-CTLA-4-combination-blockade-expands-T-and-Curran-Montalvo/2bebf030dd345047e3000138d9557599ee6891d7

no suspicion about its authenticity.

110. Attached hereto as Attachment 9A is a true and correct copy of the MARC record for the *Proceedings of the National Academy of Sciences of the United States of America* at the National Library of Medicine online catalog. Library ownership is indicated by the presence of the library's code ("DNLM") in field 935. The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to Attachment 9A occurred on June 10, 2024, as shown in field 005 ("20240610"). I personally identified and retrieved the MARC record that is Attachment 9A.

111. Based on finding a print copy of Exhibit 1030 in the National Library of Medicine and MARC record in its online library catalog attached as Attachment 9A, it is my opinion that the Curran article published in the *Proceedings of the National Academy of Sciences of the United States of America* was publicly available online on February 16, 2010, as indicated on the publisher's website and in print on March 23, 2010, shown by the label on the cover. This date stamp has the general appearance of date stamps that libraries have long affixed to periodicals to show when an issue was received, verified, and checked. Attachment 9A also shows that Exhibit 1030 was catalogued with a descriptor term reading "Science $v periodical" (see Attachment 9B, National Library of Medicine subject heading D01258) in the 650 field.

112. As noted in the holdings information (362 field), the National Library of Medicine has received the *Proceedings of the National Academy of Sciences of the United States of America* since 1915 and continues to receive the publication. In view of the MARC record for Exhibit 1030, the Curran article was publicly available online on February 16, 2010, and in print on March 23, 2010, because the serial title had been received, cataloged, and indexed at the National Library of Medicine and made part of its online catalog database.

113. Attached hereto as Attachment 9C is a true and correct copy of the MARC record for the *Proceedings of the National Academy of Sciences of the United States of America* obtained from the OCLC bibliographic database. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 9C, that library code is "MULS," which means that the MARC record for this serial was cataloged as part of the Minnesota Union List of Serials at the University of Minnesota Libraries (Minneapolis, Minnesota). As can be seen in field 008 ("Date entered on file") of the MARC record for this exhibit, a cataloger at the University of Minnesota Libraries created OCLC record number 1607201 on September 7, 1975 ("750907"). The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to Attachment 9C occurred on June 15, 2023, as shown in field 005 ("20230615"). I personally identified and retrieved the MARC record that is

Attachment 9C. The "BLvl" entry in Attachment 9C is "s," which indicates that the *Proceedings of the National Academy of Sciences of the United States of America* is a serial publication. Field 310 of Attachment 9C reads "Weekly, $b 2004-." Accordingly, the MARC record for Exhibit 1030 corresponds to the *Proceedings of the National Academy of Sciences of the United States of America* from the time the serial title began and includes the date of the Curran article.

114. Attachment 9C includes an entry in field 060 ("W1 $b PR586A"), a subject matter consistent with the National Library of Medicine classification system and an entry in field 082 ("505")—as described above, a subject matter classification number consistent with the Dewey Decimal classification system. Attachment 9C further includes a descriptor term reading "Science $v Periodicals" (see Attachment 9D, Library of Congress subject heading sh85118580) in the 650 field. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 9C was indexed according to its subject matter by virtue of at least three independently sufficient classifications: the field 060 entry, the field 082 entry, and the field 650 entry. As of September 7, 1975, the MARC record attached hereto as Attachment 9C was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that subscribed to the serial, which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database

or through an individual library.

115. WorldCat indicates that the *Proceedings of the National Academy of Sciences of the United States of America* as cataloged at the University of Minnesota Libraries is currently available from 1,968 libraries.[60] In view of the above, this issue of the *Proceedings of the National Academy of Sciences of the United States of America* was publicly available online on February 16, 2010, and in print on March 23, 2010, because by these dates it had been cataloged and indexed at the University of Minnesota Libraries, made part of the OCLC bibliographic database, and received at the National Library of Medicine. For these reasons, it is my opinion that Exhibit 1030 was published and accessible to the public online on February 16, 2010, and in print on March 23, 2010.

J. Document 10: Exhibit 1032 ("Humphrey")

116. Exhibit 1032 is a copy of the journal article titled "Opportunities and Challenges in the Development of Experimental Drug Combinations for Cancer" by Rachel W. Humphrey, Laura M. Brockway-Lunardi, David T. Bonk, Kathleen M. Dohoney, James H. Doroshow, Sandra J. Meech, Mark J. Ratain, Suzanne L. Topalian, and Drew M. Pardoll (hereafter "Humphrey"). The Humphrey article was published in Volume 103, Number 16 of the *Journal of the National Cancer Institute*

[60] https://search.worldcat.org/title/1607201

and was found in the Loma Linda University Library (Loma Linda, California). The Humphrey article appears beginning on page 1222 of this issue dated August 17, 2011. Exhibit 1032 is a true and correct copy of the Humphrey article (pages 1222-1226). Specifically, the text of the article is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. The Humphrey article is available from the publisher[61] and through the National Library of Medicine.[62] The publisher's website indicates that the Humphrey article was publicly available on August 17, 2011. Exhibit 1032 was found within the custody of a library – a place where an authentic copy of this journal would likely be. Exhibit 1032 is a true and correct copy in a condition that creates no suspicion about its authenticity.

117. Attached hereto as Attachment 10A is a true and correct copy of the metadata record for the *Journal of the National Cancer Institute* from the Loma Linda University Library online catalog. Library ownership is indicated by the presence of the library's name at the top of the page. I personally identified and retrieved the MARC record that is Attachment 10A.

118. Based on finding a print copy of Exhibit 1032 in the Loma Linda

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[61] https://academic.oup.com/jnci/article/103/16/1222/898972

[62] https://pmc.ncbi.nlm.nih.gov/articles/PMC4415086/

University Library and metadata record in its online library catalog attached as Attachment 10A, it is my opinion that the Humphrey article published in the *Journal of the National Cancer Institute* was publicly available on August 17, 2011, as indicated on the publisher's website.

119. Attachment 10A also shows that Exhibit 1032 was catalogued with two descriptor terms reading "Cancer $v Periodicals" (see Attachment 2D, Library of Congress subject heading sh2008100056) and "Neoplasms" (see Attachment 1C, National Library of Medicine subject heading D009369) in the subject fields.

120. As noted in the holdings information, the Loma Linda University Library has received the *Journal of the National Cancer Institute* since 1940 and continues to receive the publication. In view of the metadata record for Exhibit 1032, the Humphrey article was publicly available on August 17, 2011, because the serial title had been received, cataloged, and indexed in the Loma Linda University Library and made part of its online catalog database.

121. Attached hereto as Attachment 10B is a true and correct copy of the MARC record for the *Journal of the National Cancer Institute* obtained from the OCLC bibliographic database. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 10B, that library code is "NLM," which means that the MARC record for this serial was cataloged at the National Library of Medicine (Bethesda, Maryland). As can be seen

in field 008 (“Date entered on file”), a cataloger at the National Library of Medicine created OCLC record number 1064763 on November 1, 1974 (“741101”). The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to Attachment 10B occurred on June 15, 2023, as shown in field 005 (“20230615”). I personally identified and retrieved the MARC record that is Attachment 10B. The “BLvl” entry in Attachment 10B is “s,” which indicates that the *Journal of the National Cancer Institute* is a serial publication. Field 310 of Attachment 10B reads “Semimonthly $b <1989->”. Accordingly, the MARC record for Exhibit 1032 corresponds to the *Journal of the National Cancer Institute* from the time the serial began publication and includes the date of the Humphrey article.

122. Attachment 10B includes an entry in 050 (“RC261 $b .U47”)—as described above, a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system), an entry in field 060 (“W1 $b JO941C”)—as described above, a subject matter classification number consistent with the National Library of Medicine classification system (analogous to the Dewey Decimal classification system), and an entry in field 082 (“616”)—as described above, a subject matter classification number consistent with the Dewey Decimal classification system. Attachment 10B also shows that Exhibit 1032 was catalogued with two descriptor terms reading

"Cancer $v Periodicals" (see Attachment 2D, Library of Congress subject heading sh2008100056) and "Neoplasms" (see Attachment 1C, National Library of Medicine subject heading D009369) in the 650 fields. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 10B was indexed according to its subject matter by virtue of at least four independently sufficient classifications: the field 050 entry, the field 060 entry, the field 082 entry, and the field 650 entries. As of November 1, 1974, the MARC record attached hereto as Attachment 10B was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that subscribed to the serial, which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

123. WorldCat indicates that the *Journal of the National Cancer Institute* as cataloged at the National Library of Medicine is currently available from 181 libraries.[63] In view of the above, this issue of the *Journal of the National Cancer Institute* was publicly available on August 17, 2011, because by that date it had been cataloged and indexed at the National Library of Medicine, made part of the OCLC bibliographic database, and received at the Loma Linda University Library. For

[63] https://search.worldcat.org/title/848511335

these reasons, it is my opinion that Exhibit 1032 was published and accessible to the public on August 17, 2011.

K. Document 11: Exhibit 1036 ("Hodi")

124. Exhibit 1036 is a copy of the journal article titled "Biologic Activity of Cytotoxic T Lymphocyte-Associated Antigen 4 Antibody Blockade in Previously Vaccinated Metastatic Melanoma and Ovarian Carcinoma Patients" by F. Stephen Hodi, Martin C. Mihm, Robert J. Soiffer, Frank G. Haluska, Marcus Butler, Michael V. Seiden, Thomas Davis, Rochele Henry-Spires, Suzanne MacRae, Ann Willman, Robert Padera, Michael T. Jaklitsch, Sridhar Shankar, Teresa C. Chen, Alan Korman, James P. Allison, and Glenn Dranoff (hereafter "Hodi"). The Hodi article was published in Volume 100, Number 8 of the *Proceedings of the National Academy of Sciences of the United States of America* and was found in the Steenbock Library at the University of Wisconsin – Madison. The Hodi article appears beginning on page 4712 of this issue dated April 15, 2003. Exhibit 1036 is a true and correct copy of the Hodi article (pages 4712-4717). Specifically, the text of the article is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. The Hodi article is also available from the publisher, the National

Academy of Sciences[64] and through the National Library of Medicine.[65] Exhibit 1036 was found within the custody of a library – a place where an authentic copy of this journal would likely be. Exhibit 1036 is a true and correct copy in a condition that creates no suspicion about its authenticity.

125. Attached hereto as Attachment 11A is a true and correct copy of the MARC record for the *Proceedings of the National Academy of Sciences of the United States of America* at the Steenbock Library at the University of Wisconsin – Madison online catalog. Library ownership is indicated by the presence of the library's code ("uwmadisondb") in the fifth field 035. The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to Attachment 11A occurred on June 6, 2016, as shown in field 005 ("20160606"). I personally identified and retrieved the MARC record that is Attachment 11A.

126. Based on finding a print copy of Exhibit 1036 in the Steenbock Library at the University of Wisconsin – Madison and MARC record in its online library catalog attached as Attachment 11A, it is my opinion that the Hodi article published in the *Proceedings of the National Academy of Sciences of the United States of*

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[64] https://www.pnas.org/doi/10.1073/pnas.0830997100?url_ver=Z39.88-2003&rfr_id=ori%3Arid%3Acrossref.org&rfr_dat=cr_pub++0pubmed

[65] https://pubmed.ncbi.nlm.nih.gov/12682289/

America was publicly available online on April 7, 2003, as indicated on the publisher's website and in print on April 21, 2003, shown by the label on page 2 of Exhibit 1036. This date stamp has the general appearance of date stamps that libraries have long affixed to periodicals to show when an issue was received, verified, and checked. Attachment 11A also shows that Exhibit 1036 was catalogued with a descriptor term reading "Science $x Societies, etc." (see Attachment 11B, Library of Congress subject heading sh85118586) in the 650 field.

127. As noted in the holdings information (362 field), the Steenbock Library at the University of Wisconsin – Madison has received the *Proceedings of the National Academy of Sciences of the United States of America* since 1915 and continues to receive the publication. In view of the MARC record for Exhibit 1036, the Hodi article was publicly available online on April 7, 2003, and in print on April 21, 2003, because the serial title had been received, cataloged, and indexed at the Steenbock Library at the University of Wisconsin – Madison and made part of its online catalog database.

128. Attached hereto as Attachment 11C is a true and correct copy of the MARC record for the *Proceedings of the National Academy of Sciences of the United States of America* obtained from the OCLC bibliographic database. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 11C, that library code is "MULS," which

means that the MARC record for this serial was cataloged as part of the Minnesota Union List of Serials at the University of Minnesota Libraries (Minneapolis, Minnesota). As can be seen in field 008 ("Date entered on file") of the MARC record for this exhibit, a cataloger at the University of Minnesota Libraries created OCLC record number 1607201 on September 7, 1975 ("750907"). The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to Attachment 11C occurred on June 15, 2023, as shown in field 005 ("20230615"). I personally identified and retrieved the MARC record that is Attachment 11C. The "BLvl" entry in Attachment 11C is "s," which indicates that the *Proceedings of the National Academy of Sciences of the United States of America* is a serial publication. Field 310 of Attachment 11C reads "Weekly, $b 2004-." Accordingly, the MARC record for Exhibit 1036 corresponds to the *Proceedings of the National Academy of Sciences of the United States of America* from the time the serial title began and includes the date of the Hodi article.

129. Attachment 11C includes an entry in field 060 ("W1 $b PR586A"), a subject matter consistent with the National Library of Medicine classification system and an entry in field 082 ("505")—as described above, a subject matter classification number consistent with the Dewey Decimal classification system. Attachment 11C further includes a descriptor term reading "Science $v Periodicals" (see Attachment D, Library of Congress subject heading sh85118580) in the 650 field. Thus, as of its

cataloging, the publication corresponding to the MARC record attached hereto as Attachment 11C was indexed according to its subject matter by virtue of at least three independently sufficient classifications: the field 060 entry, the field 082 entry, and the field 650 entry. As of September 7, 1975, the MARC record attached hereto as Attachment 11C was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that subscribed to the serial, which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

130. WorldCat indicates that the *Proceedings of the National Academy of Sciences of the United States of America* as cataloged at the University of Minnesota Libraries is currently available from 1,968 libraries.[66] In view of the above, this issue of the *Proceedings of the National Academy of Sciences of the United States of America* was publicly available online on April 7, 2003, and in print on April 21, 2003, because by these dates it had been cataloged and indexed at the University of Minnesota Libraries, made part of the OCLC bibliographic database, and received at the National Library of Medicine. For these reasons, it is my opinion that Exhibit 1036 was published and accessible to the public online on April 7, 2003, and in print

[66] https://search.worldcat.org/title/1607201

on April 21, 2003.

L. Document 12: Exhibit 1037 ("Brahmer")

131. Exhibit 1037 is a copy of the journal article titled "Phase I Study of Single-Agent Anti-Programmed Death-1 (MDX-1106) in Refractory Solid Tumors: Safety, Clinical Activity, Pharmacodynamics, and Immunologic Correlates" by Julie R. Brahmer, Charles G. Drake, Ira Wollner, John D. Powderly, Joel Picus, William H. Sharfman, Elizabeth Stankevich, Alice Pons, Theresa M. Salay, Tracee L. McMiller, Marta M. Gilson, Changyu Wang, Mark Selby, Janis M. Taube, Robert Anders, Lieping Chen, Alan J. Korman, Drew M. Pardoll, Israel Lowy, and Suzanne L. Topalian (hereafter "Brahmer"). The Brahmer journal article was published in Volume 28, Number 19 of the *Journal of Clinical Oncology* and was found in the Ebling Health Sciences Library at the University of Wisconsin – Madison. The Brahmer journal article appears on page 3167 of this issue dated July 1, 2010. Exhibit 1037 is a true and correct copy of the Brahmer journal article. Specifically, the text of the oral abstract is complete; no pages are missing, and the text on each page appears to flow seamlessly; further, there are no visible alterations to the document. The Brahmer journal article is available from the publisher,[67] through

[67] https://ascopubs.org/doi/10.1200/JCO.2009.26.7609

the National Library of Medicine,[68] and in the digital repository *ResearchGate.*[69] Exhibit 1037 was found within the custody of a library – a place where an authentic copy of this journal would likely be. Exhibit 1037 is a true and correct copy in a condition that creates no suspicion about its authenticity.

132. Attached hereto as Attachment 12A is a true and correct copy of the MARC record for the *Journal of Clinical Oncology* from the Ebling Health Sciences Library at the University of Wisconsin – Madison online catalog. Library ownership is indicated by the presence of the library's code ("uwmadisondb") in the fourth field 035. The library continues to update this MARC record and enhanced the MARC record to meet current cataloging rules. The most recent enhancement to Attachment 12A occurred on April 9, 2015, as shown in field 005 ("20150409"). I personally identified and retrieved the MARC record that is Attachment 12A.

133. Based on finding a print copy of Exhibit 1037 in the Ebling Health Sciences Library at the University of Wisconsin – Madison and MARC record in its online library catalog attached as Attachment 12A, it is my opinion that the Brahmer

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[68] https://pubmed.ncbi.nlm.nih.gov/20516446/

[69] https://www.researchgate.net/publication/367766444_Phase_I_Study_of_Single-Agent_Anti-Programmed_Death-1_MDX-1106_in_Refractory_Solid_Tumors_Safety_Clinical_Activity_Pharmacodynamics_and_Immunologic_Correlates

journal article published in the *Journal of Clinical Oncology* was publicly available on July 7, 2010, as indicated by the stamp on the cover (Exhibit 1037, page 1). This date stamp has the general appearance of date stamps that libraries have long affixed to periodicals to show when an issue was received, verified, and checked.

134. Attachment 12A includes an entry in field 060 ("W1 $b JO5895")—as described above, a subject matter classification number consistent with the National Library of Medicine classification system (analogous to the Dewey Decimal classification system) and an entry in field 082 ("616")—as described above, a subject matter classification number consistent with the Dewey Decimal classification system. Attachment 12A also shows that Exhibit 1037 was catalogued with a descriptor term reading "Medical Oncology $v periodical" (see Attachment 2B, National Library of Medicine subject heading D008495) in the 650 field.

135. As noted in the holdings information (362 field), the Ebling Health Sciences Library at the University of Wisconsin – Madison has received the *Journal of Clinical Oncology* since January 1983 and continues to receive the publication. In view of the MARC record for Exhibit 137, the Brahmer journal article was publicly available on July 7, 2010, because the serial title had been received, cataloged, and indexed in the Ebling Health Sciences Library at the University of Wisconsin – Madison and made part of its online catalog database.

136. Attached hereto as Attachment 12B is a true and correct copy of the

MARC record for the *Journal of Clinical Oncology* obtained from the OCLC bibliographic database. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 12B, that library code is "NSD," which means that the MARC record for this serial was cataloged as part of the National Serials Data Program at the Library of Congress. As can be seen in field 008 ("Date entered on file"), a cataloger at the Library of Congress created OCLC record number 8320014 on April 8, 1982 ("820408"). The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to Attachment 12B occurred on April 15, 2024, as shown in field 005 ("20240415"). I personally identified and retrieved the MARC record that is Attachment 12B. The "BLvl" entry in Attachment 12B is "s," which indicates that the *Journal of Clinical Oncology* is a serial publication. Field 310 of Attachment 12B reads "Three times a month $b 2005-." Accordingly, the MARC record for Exhibit 1037 corresponds to the *Journal of Clinical Oncology* from the time the serial began publication and includes the date of the Brahmer journal article.

137. Attachment 12B includes an entry in 050 ("RC254.A1 $b J68")—as described above, a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system), an entry in field 060 ("W1 $b JO5894H")—as described above, a subject matter classification number consistent with the National Library of Medicine

classification system (analogous to the Dewey Decimal classification system), and an entry in field 082 ("616")—as described above, a subject matter classification number consistent with the Dewey Decimal classification system. Attachment 12B also shows that Exhibit 1037 was catalogued with three descriptor terms reading "Oncology $v Periodicals" (see Attachment 1B, Library of Congress subject heading sh2010104402), "Cancer $v Periodicals" (see Attachment 2D, Library of Congress subject heading sh2008100056), and "Medical Oncology" (see Attachment 2B, National Library of Medicine subject heading D008495) in the 650 fields. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 12B was indexed according to its subject matter by virtue of at least four independently sufficient classifications: the field 050 entry, the field 060 entry, the field 082 entry, and the field 650 entries. As of April 8, 1982, the MARC record attached hereto as Attachment 12B was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that subscribed to the serial, which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

138. WorldCat indicates that the *Journal of Clinical Oncology* as cataloged

at the Library of Congress is currently available from 1,030 libraries.[70] In view of the above, this issue of the *Journal of Clinical Oncology* was publicly available on July 7, 2010, because by that date it had been cataloged and indexed at the Library of Congress, made part of the OCLC bibliographic database, and received in the Ebling Health Sciences Library at the University of Wisconsin -- Madison. For these reasons, it is my opinion that Exhibit 1037 was published and accessible to the public on July 7, 2010.

M. Document 13: Exhibit 1040 ("Tourneau")

139. Exhibit 1040 is a copy of the journal article titled "Dose Escalation Methods in Phase I Cancer Clinical Trials" by Christophe Le Tourneau, J. Jack Lee, and Lillian L. Siu (hereafter "Le Tourneau"). The Le Tourneau article was published in Volume 101, Number 10 of the *Journal of the National Cancer Institute* and was found in the Loma Linda University Library (Loma Linda, California). The Le Tourneau article appears beginning on page 708 of this issue dated May 20, 2009. Exhibit 1040 is a true and correct copy of the Le Tourneau article (pages 708-720). Specifically, the text of the article is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. The Le Tourneau article is available from the

[70] https://search.worldcat.org/title/8320014

publisher,[71] through the National Library of Medicine,[72] and in the digital repository *Semantic Scholar*.[73]The publisher's website indicates that the Le Tourneau article was publicly available on May 20, 2009. Exhibit 1040 was found within the custody of a library – a place where an authentic copy of this journal would likely be. Exhibit 1040 is a true and correct copy in a condition that creates no suspicion about its authenticity.

140. Attached hereto as Attachment 13A is a true and correct copy of the metadata record for the *Journal of the National Cancer Institute* from the Loma Linda University Library online catalog. Library ownership is indicated by the presence of the library's name at the top of the page. I personally identified and retrieved the MARC record that is Attachment 13A.

141. Based on finding a print copy of Exhibit 1040 in the Loma Linda University Library and metadata record in its online library catalog attached as Attachment 13A, it is my opinion that the Le Tourneau article published in the *Journal of the National Cancer Institute* was publicly available on May 20, 2009, as indicated on the publisher's website.

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[71] https://academic.oup.com/jnci/article/101/10/708/969691

[72] https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2684552/

[73] https://www.semanticscholar.org/paper/Dose-Escalation-Methods-in-Phase-I-Cancer-Clinical-Tourneau-Lee/2e565a213a4cc812f4610beb8f52eaa028d8bf12

142. Attachment 13A also shows that Exhibit 1040 was catalogued with two descriptor terms reading "Cancer $v Periodicals" (see Attachment 2D, Library of Congress subject heading sh2008100056) and "Neoplasms" (see Attachment 1C, National Library of Medicine subject heading D009369) in the subject fields.

143. As noted in the holdings information, the Loma Linda University Library has received the *Journal of the National Cancer Institute* since 1940 and continues to receive the publication. In view of the metadata record for Exhibit 1040, the Le Tourneau article was publicly available on May 20, 2009, because the serial title had been received, cataloged, and indexed in the Loma Linda University Library and made part of its online catalog database.

144. Attached hereto as Attachment 13B is a true and correct copy of the MARC record for the *Journal of the National Cancer Institute* obtained from the OCLC bibliographic database. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 13B, that library code is "NLM," which means that the MARC record for this serial was cataloged at the National Library of Medicine (Bethesda, Maryland). As can be seen in field 008 ("Date entered on file"), a cataloger at the National Library of Medicine created OCLC record number 1064763 on November 1, 1974 ("741101"). The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to Attachment 13B occurred on June

15, 2023, as shown in field 005 (“20230615”). I personally identified and retrieved the MARC record that is Attachment 13B. The “BLvl” entry in Attachment 13B is “s,” which indicates that the *Journal of the National Cancer Institute* is a serial publication. Field 310 of Attachment 13B reads “Semimonthly $b <1989->”. Accordingly, the MARC record for Exhibit 1040 corresponds to the *Journal of the National Cancer Institute* from the time the serial began publication and includes the date of the Le Tourneau article.

145. Attachment 13B includes an entry in 050 (“RC261 $b .U47”)—as described above, a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system), an entry in field 060 (“W1 $b JO941C”)—as described above, a subject matter classification number consistent with the National Library of Medicine classification system (analogous to the Dewey Decimal classification system), and an entry in field 082 (“616”)—as described above, a subject matter classification number consistent with the Dewey Decimal classification system. Attachment 13B also shows that Exhibit 1040 was catalogued with two descriptor terms reading “Cancer $v Periodicals” (see Attachment 2D, Library of Congress subject heading sh2008100056) and “Neoplasms” (see Attachment 1C, National Library of Medicine subject heading D009369) in the 650 fields. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 13B

was indexed according to its subject matter by virtue of at least four independently sufficient classifications: the field 050 entry, the field 060 entry, the field 082 entry, and the field 650 entries. As of November 1, 1974, the MARC record attached hereto as Attachment 13B was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that subscribed to the serial, which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

146. WorldCat indicates that the *Journal of the National Cancer Institute* as cataloged at the National Library of Medicine is currently available from 181 libraries.[74] In view of the above, this issue of the *Journal of the National Cancer Institute* was publicly available on May 20, 2009, because by that date it had been cataloged and indexed at the National Library of Medicine, made part of the OCLC bibliographic database, and received at the Loma Linda University Library. For these reasons, it is my opinion that Exhibit 1040 was published and accessible to the public on May 20, 2009.

N. Document 14: Exhibit 1042 ("Simeone")

147. Exhibit 1042 is a copy of the open access journal article titled

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[74] https://search.worldcat.org/title/848511335

"Immunomodulating Antibodies in the Treatment of Metastatic Melanoma: The Experience with Anti-CTLA-4, Anti-CD137, and Anti-PD1" by Ester Simeone and Paolo A. Ascierto (hereafter "Simeone"). The Simeone article was published in Volume 9, Issue 3 of the open access *Journal of Immunotoxicology* and was found in the National Library of Medicine (Bethesda, Maryland). The Simeone article appears beginning on page 241 of this issue dated July-September 2012. Exhibit 1042 is a true and correct copy of the Simeone article (pages 241-247). Specifically, the text of the article is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. The Simeone article is available from the publisher,[75] Taylor and Francis, through the National Library of Medicine,[76] and in the digital repository *ResearchGate.*[77] The publisher's website indicates that the Simeone article was publicly available on April 23, 2012. Exhibit 1042 was found within the custody of a library – a place where an authentic copy of this journal would likely

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[75] https://www.tandfonline.com/doi/full/10.3109/1547691X.2012.678021

[76] https://pubmed.ncbi.nlm.nih.gov/22524673/

[77] https://www.researchgate.net/publication/224823363_Immunomodulating_antibodies_in_the_treatment_of_metastatic_melanoma_The_experience_with_anti-CTLA-4_anti-CD137_and_anti-PD1

be. Exhibit 1042 is a true and correct copy in a condition that creates no suspicion about its authenticity.

148. Attached hereto as Attachment 14A is a true and correct copy of the MARC record for the open access *Journal of Immunotoxicology* from the National Library of Medicine online catalog. Library ownership is indicated by the presence of the library's code ("DNLM") in field 935. The library continues to update this MARC record and enhanced the MARC record to meet current cataloging rules. The most recent enhancement to Attachment 14A occurred on June 8, 2024, as shown in field 005 ("20240608"). I personally identified and retrieved the MARC record that is Attachment 14A.

149. Based on finding a print copy of Exhibit 1042 in the National Library of Medicine and MARC record in its online library catalog attached as Attachment 14A, it is my opinion that the Simeone article published in the open access *Journal of Immunotoxicology* was publicly available on April 23, 2012, as indicated on the publisher's website.

150. Attachment 14A includes an entry in field 060 ("W1 $b JO679J")—as described above, a subject matter classification number consistent with the National Library of Medicine classification system (analogous to the Dewey Decimal classification system). system. Attachment 14A also shows that Exhibit 1042 was catalogued with three descriptor terms reading "Immunity $x physiology" (see

Attachment 14B, National Library of Medicine subject heading D001709), "Environmental Exposure $x adverse effects" (see Attachment 14C, National Library of Medicine subject heading D004781), and "Poisons $x immunology" (see Attachment 14D, National Library of Medicine subject heading D011042) in the 650 fields.

151. As noted in the holdings information (362 field), the National Library of Medicine has received the open access *Journal of Immunotoxicology* since 2004 and continues to receive the publication. In view of the MARC record for Exhibit 1042, the Simeone article was publicly available on April 23, 2012, because the serial title had been received, cataloged, and indexed in the National Library of Medicine and made part of its online catalog database.

152. Attached hereto as Attachment 14E is a true and correct copy of the MARC record for the open access *Journal of Immunotoxicology* obtained from the OCLC bibliographic database. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 14E, that library code is "NSD," which means that the MARC record for this serial was cataloged as part of the National Serials Data Program at the Library of Congress. As can be seen in field 008 ("Date entered on file"), a cataloger at the Library of Congress created OCLC record number 53802741 on November 28, 2003 ("031128"). The library continues to update and enhance this MARC record to meet

current cataloging rules. The most recent enhancement to Attachment 14E occurred on December 1, 2018, as shown in field 005 ("20181201"). I personally identified and retrieved the MARC record that is Attachment 14E. The "BLvl" entry in Attachment 14E is "s," which indicates that the open access *Journal of Immunotoxicology* is a serial publication. Field 310 of Attachment 14E reads "Quarterly." Accordingly, the MARC record for Exhibit 1042 corresponds to the open access *Journal of Immunotoxicology* from the time the serial began publication and includes the date of the Simeone article.

153. Attachment 14E includes an entry in 050 ("RC582.17")—as described above, a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system), an entry in field 060 ("W1 $b JO679J")—as described above, a subject matter classification number consistent with the National Library of Medicine classification system (analogous to the Dewey Decimal classification system), and an entry in field 082 ("616.97")—as described above, a subject matter classification number consistent with the Dewey Decimal classification system. Attachment 14E also shows that Exhibit 1042 was catalogued with six descriptor terms reading "Immunotoxicology $v Periodicals" (see Attachment 14F, Library of Congress subject heading sh85064594 and Attachment 3D, Library of Congress subject heading sh85099890), "Poisons $x Immunity $v Periodicals" (see Attachment 14G,

Library of Congress subject heading sh85103951, Attachment 14H, Library of Congress subject heading sh85064541, and Attachment 3D, Library of Congress subject heading sh85099890), "Environmental health $v Periodicals" (see Attachment 14I, Library of Congress subject heading sh2008103229), "Immunity $x physiology" (see Attachment 14B, National Library of Medicine subject heading D001709), "Environmental Exposure $x adverse effects" (see Attachment 14C, National Library of Medicine subject heading D004781), and "Poisons $x immunology" (see Attachment 14D, National Library of Medicine subject heading D011042) in the 650 fields. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 14E was indexed according to its subject matter by virtue of at least four independently sufficient classifications: the field 050 entry, the field 060 entry, the field 082 entry, and the field 650 entries. As of November 28, 2003, the MARC record attached hereto as Attachment 14E was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that subscribed to the serial, which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

154. WorldCat indicates that the open access *Journal of Immunotoxicology*

as cataloged at the Library of Congress is currently available from 1,214 libraries.[78] In view of the above, this issue of the open access *Journal of Immunotoxicology* was publicly available on July 1, 2007, because by that date it had been cataloged and indexed at the Library of Congress, made part of the OCLC bibliographic database, and received at the National Library of Medicine. For these reasons, it is my opinion that Exhibit 1042 was published and accessible to the public on April 23, 2012.

O. Document 15: Exhibit 1044 ("Ascierto")

155. Exhibit 1044 is a copy of the journal article titled "Clinical Experiences with Anti-CD137 and Anti-PD1 Therapeutic Antibodies" by Paolo A. Ascierto, Ester Simeone, Mario Sznol, Yang-Xin Fu, and Ignacio Melero (hereafter "Ascierto"). The Ascierto article was published in Volume 37, Number 5 of the journal titled *Seminars in Oncology* and was found in the Baystate Medical Center Health Science Library (Springfield, Massachusetts). The Ascierto article appears beginning on page 508 of this issue dated October 2010. Exhibit 1044 is a true and correct copy of the Ascierto article (pages 508-518). Specifically, the text of the article is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the

[78] https://search.worldcat.org/title/53802741

document. The Ascierto article is available from the publisher,[79] Elsevier, and through the National Library of Medicine.[80] The publisher's website indicates that the Ascierto article was publicly available on November 10, 2010. Exhibit 1044 was found within the custody of a library – a place where an authentic copy of this journal would likely be. Exhibit 1044 is a true and correct copy in a condition that creates no suspicion about its authenticity.

156. Attached hereto as Attachment 15A is a true and correct copy of the metadata record for the journal titled *Seminars in Oncology* from the Baystate Medical Center Health Science Library online catalog. Library ownership is indicated by the presence of the library's name at the top of the page. I personally identified and retrieved the MARC record that is Attachment 15A.

157. Based on finding a print copy of Exhibit 1044 in the Baystate Medical Center Health Science Library and metadata record in its online library catalog attached as Attachment 15A, it is my opinion that the Ascierto article published in the journal titled *Seminars in Oncology* was publicly available on November 10, 2010, as indicated on the publisher's website.

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79 https://www.sciencedirect.com/science/article/abs/pii/S0093775410001624?via%3Dihub

80 https://pubmed.ncbi.nlm.nih.gov/21074066/

158. Attachment 15A also shows that Exhibit 1044 was catalogued with two descriptor terms reading "Oncology $v Periodicals" (see Attachment 1B, Library of Congress subject heading sh2010104402) and "Neoplasms" (see Attachment 1C, National Library of Medicine subject heading D009369) in the subject fields.

159. As noted in the holdings information, the Baystate Medical Center Health Science Library has received the journal titled *Seminars in Oncology* since 1974 and continues to receive the publication. In view of the metadata record for Exhibit 1044, the Ascierto article was publicly available on November 10, 2010, because the serial title had been received, cataloged, and indexed in the Baystate Medical Center Health Science Library and made part of its online catalog database.

160. Attached hereto as Attachment 15B is a true and correct copy of the MARC record for the journal titled *Seminars in Oncology* obtained from the OCLC bibliographic database. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 15B, that library code is "DLC," which means that the MARC record for this serial was cataloged at the Library of Congress. As can be seen in field 008 ("Date entered on file"), a cataloger at the Library of Congress created OCLC record number 1793234 on July 24, 1974 ("740724"). The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to Attachment

15B occurred on April 30, 2023, as shown in field 005 ("20230430"). I personally identified and retrieved the MARC record that is Attachment 15B. The "BLvl" entry in Attachment 15B is "s," which indicates that the journal titled *Seminars in Oncology* is a serial publication. Field 310 of Attachment 15B reads "Bimonthly." Accordingly, the MARC record for Exhibit 1044 corresponds to the journal titled *Seminars in Oncology* from the time the serial began publication and includes the date of the Ascierto article.

161. Attachment 15B includes an entry in 050 ("RC261 $b .A4313")—as described above, a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system), an entry in field 060 ("W1 $b SE489E")—as described above, a subject matter classification number consistent with the National Library of Medicine classification system (analogous to the Dewey Decimal classification system), and an entry in field 082 ("616.9/92/005")—as described above, a subject matter classification number consistent with the Dewey Decimal classification system. Attachment 15B also shows that Exhibit 1044 was catalogued with two descriptor terms reading "Oncology $v Periodicals" (see Attachment 1B, Library of Congress subject heading sh2010104402) and "Neoplasms" (see Attachment 1C, National Library of Medicine subject heading D009369) in the 650 fields. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as

Attachment 15B was indexed according to its subject matter by virtue of at least four independently sufficient classifications: the field 050 entry, the field 060 entry, the field 082 entry, and the field 650 entries. As of July 24, 1974, the MARC record attached hereto as Attachment 15B was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that subscribed to the serial, which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

162. WorldCat indicates that the journal titled *Seminars in Oncology* as cataloged at the Library of Congress is currently available from 1,440 libraries.[81] In view of the above, this issue of the journal titled *Seminars in Oncology* was publicly available on November 10, 2010, because by that date it had been cataloged and indexed at the Library of Congress, made part of the OCLC bibliographic database, and received at the Baystate Medical Center Health Science Library. For these reasons, it is my opinion that Exhibit 1044 was published and accessible to the public on November 10, 2010.

P. Document 16: Exhibit 1045 ("Korman")

163. Exhibit 1045 is a copy of the open access journal abstract titled

[81] https://search.worldcat.org/title/1793234

"Activity of Anti-PD-1 in Murine Tumor Models: Role of 'Host' PD-L1 and Synergistic Effect of Anti-PD-1 and Anti-CTLA-4" by Alan Korman, Bing Chen, Changyu Wang, Linda Wu, Pina Cardarelli, and Mark Selby (hereafter "Korman"). The Korman abstract was published in Volume 178, Issue 1 Supplement of the open access publication *The Journal of Immunology* and was found in the National Library of Medicine (Bethesda, Maryland). The Korman abstract appears on page 48 of this issue dated April 1, 2007. Exhibit 1045 is a true and correct copy of the Korman abstract. Specifically, the text of the article is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. The Korman abstract is available from the publisher[82] and in the digital repositories *ResearchGate*[83] and *Semantic Scholar*.[84] The publisher's website indicates that the Korman abstract was publicly available on April 1, 2007. Exhibit 1045 was found within the custody of

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[82] https://journals.aai.org/jimmunol/article/178/1_Supplement/S82/79601/Activity-of-Anti-PD-1-in-Murine-Tumor-Models-Role

[83] https://www.researchgate.net/publication/313620584_Activity_of_Anti-PD-1_in_murine_tumor_models_Role_of_host_PD-L1_and_synergistic_effect_of_anti-PD-1_and_anti-CTLA-4

[84] https://www.semanticscholar.org/paper/Activity-of-Anti-PD-1-in-Murine-Tumor-Models%3A-Role-Korman-Chen/307831e62441a65912ea5fa9f6b9a686eb6c873b

a library – a place where an authentic copy of this journal would likely be. Exhibit 1045 is a true and correct copy in a condition that creates no suspicion about its authenticity.

164. Attached hereto as Attachment 16A is a true and correct copy of the MARC record for the open access publication *The Journal of Immunology* from the National Library of Medicine online catalog. Library ownership is indicated by the presence of the library's code ("DNLM") in the first field 040. The library continues to update this MARC record and enhanced the MARC record to meet current cataloging rules. The most recent enhancement to Attachment 16A occurred on August 12, 2024, as shown in field 005 ("20240812"). I personally identified and retrieved the MARC record that is Attachment 16A.

165. Based on finding a print copy of Exhibit 1045 in the National Library of Medicine and MARC record in its online library catalog attached as Attachment 16A, it is my opinion that the Korman abstract published in the open access publication *The Journal of Immunology* was publicly available on April 1, 2007, as indicated on the publisher's website.

166. Attachment 16A includes an entry in field 060 ("W1 $b JO677")—as described above, a subject matter classification number consistent with the National Library of Medicine classification system (analogous to the Dewey Decimal classification system). system. Attachment 16A also shows that Exhibit 1045 was

catalogued with two descriptor terms reading "Hypersensitivity" (see Attachment 16B, National Library of Medicine subject heading D006967) and "Allergy and immunology" (see Attachment 3E, National Library of Medicine subject heading D000486) in the 650 fields.

167. As noted in the holdings information (362 field), the National Library of Medicine has received the open access publication *The Journal of Immunology* since 1950 and continues to receive the publication. In view of the MARC record for Exhibit 1045, the Korman abstract was publicly available on April 1, 2007, because the serial title had been received, cataloged, and indexed in the National Library of Medicine and made part of its online catalog database.

168. Attached hereto as Attachment 16C is a true and correct copy of the MARC record for the open access publication *The Journal of Immunology* obtained from the OCLC bibliographic database. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 16C, that library code is "MUL," which means that the MARC record for this serial was cataloged as part of the Minnesota Union List of Serials at the University of Minnesota Libraries (Minneapolis, Minnesota). As can be seen in field 008 ("Date entered on file"), a cataloger at the University of Minnesota Libraries created OCLC record number 1778718 on November 1, 1975 ("751101"). The library continues to update and enhance this MARC record to meet current cataloging rules. The most

recent enhancement to Attachment 16C occurred on October 12, 2023, as shown in field 005 ("20231012"). I personally identified and retrieved the MARC record that is Attachment 16C. The "BLvl" entry in Attachment 16C is "s," which indicates that the open access publication *The Journal of Immunology* is a serial publication. Field 310 of Attachment 16C reads "Semimonthly $b Jan. 1986-." Accordingly, the MARC record for Exhibit 1045 corresponds to the open access publication *The Journal of Immunology* from the time the serial adopted the current title and includes the date of the Korman abstract.

169. Attachment 16C includes an entry in 050 ("QR180 $b .J6")—as described above, a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system), an entry in field 060 ("W1 $b JO677")—as described above, a subject matter classification number consistent with the National Library of Medicine classification system (analogous to the Dewey Decimal classification system), and an entry in field 082 ("615")—as described above, a subject matter classification number consistent with the Dewey Decimal classification system. Attachment 16C also shows that Exhibit 1045 was catalogued with three descriptor terms reading "Immunology $v Periodicals" (see Attachment 3B, Library of Congress subject heading sh2008104308), "Hypersensitivity" (see Attachment 16B, National Library of Medicine subject heading D006967) and "Allergy and immunology" (see

Attachment 3E, National Library of Medicine subject heading D000486) in the 650 fields. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 16C was indexed according to its subject matter by virtue of at least four independently sufficient classifications: the field 050 entry, the field 060 entry, the field 082 entry, and the field 650 entries. As of November 1, 1975, the MARC record attached hereto as Attachment 16C was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that subscribed to the serial, which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

170. WorldCat indicates that the open access publication *The Journal of Immunology* as cataloged at the University of Minnesota Libraries is currently available from 1,317 libraries.[85] In view of the above, this issue of the open access publication *The Journal of Immunology* was publicly available on April 1, 2007, because by that date it had been cataloged and indexed at the University of Minnesota Libraries, made part of the OCLC bibliographic database, and received at the National Library of Medicine. For these reasons, it is my opinion that Exhibit 1045 was published and accessible to the public on April 1, 2007.

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[85] https://search.worldcat.org/title/1778718

Q. Document 17: Exhibit 1015 ("Parry")

171. Exhibit 1015 is a copy of the open access journal article titled "CTLA-4 and PD-1 Receptors Inhibit T-Cell Activation by Distinct Mechanisms" by Richard V. Parry, Jens M. Chemnitz, Kenneth A. Frauwirth, Anthony R. Lanfranco, Inbal Braunstein, Sumire V. Kobayashi, Peter S. Linsley, Craig B. Thompson, and James L. Riley (hereafter "Parry"). The Parry article was published in Volume 25, Issue 21 of the open access publication *Molecular and Cellular Biology* and was found in the Linda Hall Library of Science, Engineering & Technology (Kansas City, Missouri). The Parry article appears beginning on page 9543 of this issue dated November 2005. Exhibit 1015 is a true and correct copy of the Parry article. Specifically, the text of the article is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. The Parry article is available from the publisher[86] and through the National Library of Medicine.[87] The publisher's website indicates that the Parry article was published online on March 27, 2023. Exhibit 1015 was found within the custody of a library – a place where an authentic copy of this journal would likely be. Exhibit 1015 is a true and correct copy in a condition

[86] https://www.tandfonline.com/doi/full/10.1128/MCB.25.21.9543-9553.2005

[87] https://pubmed.ncbi.nlm.nih.gov/16227604/

that creates no suspicion about its authenticity.

172. Attached hereto as Attachment 17A is a true and correct copy of the MARC record for the open access publication *Molecular and Cellular Biology* from the Linda Hall Library of Science, Engineering & Technology online catalog. Library ownership is indicated by the presence of the library's code ("LHL") in field 049. The library continues to update this MARC record and enhanced the MARC record to meet current cataloging rules. The most recent enhancement to Attachment 17A occurred on September 6, 2023, as shown in field 005 ("20230906"). I personally identified and retrieved the MARC record that is Attachment 17A.

173. Based on finding a print copy of Exhibit 1015 in the Linda Hall Library of Science, Engineering & Technology and MARC record in its online library catalog attached as Attachment 17A, it is my opinion that the Parry article published in the open access publication *Molecular and Cellular Biology* was publicly available by November 2005, as indicated on the publisher's website.

174. Attachment 17A includes an entry in field 050 ("QH506 $b .M64")—as described above, a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system), an entry in field 060 ("W1 $b MO194U")—as described above, a subject matter classification number consistent with the National Library of Medicine classification system (analogous to the Dewey Decimal classification

system), and an entry in field 082 ("574")—as described above, a subject matter classification number consistent with the Dewey Decimal classification system. system. Attachment 17A also shows that Exhibit 1015 was catalogued with two descriptor terms reading "Microbiology $v Periodicals" (see Attachment 17B, Library of Congress subject heading sh2008107742) and "Cytology $v Periodicals" (see Attachment 17C, Library of Congress subject heading sh2008101999) in the 650 fields.

175. As noted in the holdings information (362 field), the Linda Hall Library of Science, Engineering & Technology has received the open access publication *Molecular and Cellular Biology* since 1981 and continues to receive the publication. In view of the MARC record for Exhibit 1015, the Parry article was publicly available by November 2005, because the serial title had been received, cataloged, and indexed in the Linda Hall Library of Science, Engineering & Technology and made part of its online catalog database.

176. Attached hereto as Attachment 17D is a true and correct copy of the MARC record for the open access publication *Molecular and Cellular Biology* obtained from the OCLC bibliographic database. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 17C, that library code is "NSD," which means that the MARC record for this serial was cataloged as part of the National Serials Data Program at the

Library of Congress. As can be seen in field 008 ("Date entered on file"), a cataloger at the Library of Congress created OCLC record number 6492263 on July 7, 1980 ("800707"). The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to Attachment 17D occurred on June 21, 2024, as shown in field 005 ("20240621"). I personally identified and retrieved the MARC record that is Attachment 17D. The "BLvl" entry in Attachment 17D is "s," which indicates that the open access publication *Molecular and Cellular Biology* is a serial publication. Field 310 of Attachment 17D reads "Monthly." Accordingly, the MARC record for Exhibit 1015 corresponds to the open access publication *Molecular and Cellular Biology* from the time the serial began publication and includes the date of the Parry article.

177. Attachment 17D includes an entry in 050 ("QH506 $b .M64")—as described above, a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system), an entry in field 060 ("W1 $b MO194U")—as described above, a subject matter classification number consistent with the National Library of Medicine classification system (analogous to the Dewey Decimal classification system), and an entry in field 082 ("574")—as described above, a subject matter classification number consistent with the Dewey Decimal classification system. Attachment 17D also shows that Exhibit 1015 was catalogued with two descriptor terms reading

"Microbiology $v Periodicals" (see Attachment 17B, Library of Congress subject heading sh2008107742) and "Cytology $v Periodicals" (see Attachment 17C, Library of Congress subject heading sh2008101999) in the 650 fields. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 17D was indexed according to its subject matter by virtue of at least four independently sufficient classifications: the field 050 entry, the field 060 entry, the field 082 entry, and the field 650 entries. As of July 7, 1980, the MARC record attached hereto as Attachment 17D was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that subscribed to the serial, which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

178. WorldCat indicates that the open access publication *Molecular and Cellular Biology* as cataloged at the Library of Congress is currently available from 1,197 libraries.[88] In view of the above, this issue of the open access publication *Molecular and Cellular Biology* was publicly available on March 15, 2005, because by that date it had been cataloged and indexed at the Library of Congress, made part of the OCLC bibliographic database, and received at the Lida Hall Library of

[88] https://search.worldcat.org/title/6492263

Science, Engineering & Technology. For these reasons, it is my opinion that Exhibit 1015 was published and accessible to the public by November 2005.

Q. Document 17: Exhibit 1039 ("Robert")

179. Exhibit 1039 is a copy of the journal article titled "Ipilimumab plus Dacarbazine for Previously Untreated Metastatic Melanoma" by Caroline Robert, Luc Thomas, Igor Bondarenko, Steven O'Day, Jeffrey Weber, Claus Garbe, Celeste Lebbe, Jean-François Baurain, Alessandro Testori, Jean-Jacques Grob, Neville Davidson, Jon Richards, Michele Maio, Axel Hauschild, Wilson H. Miller, Jr., Pere Gascon, Michal Lotem, Kaan Harmankaya, Ramy Ibrahim, Stephen Francis, Tai-Tsang Chen, Rachel Humphrey, Axel Hoos, and Jedd D. Wolchok (hereafter "Robert"). The Robert article was published in Volume 364, Number 25 of *The New England Journal of Medicine* and was found in the Ebling Health Sciences Library at the University of Wisconsin – Madison. The Robert article appears beginning on page 2517 of this issue dated June 30, 2011. Exhibit 1039 is a true and correct copy of the Robert article (pages 2517-2526). Specifically, the text of the article is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. The Robert article is available from the publisher,[89] the Massachusetts

[89] https://www.nejm.org/doi/full/10.1056/NEJMoa1104621

Medical Society, and through the National Library of Medicine.[90] The digital version of the Robert article was publicly available on June 30, 2011, as indicated on the publisher's website. Exhibit 1039 was found within the custody of a library – a place where an authentic copy of this journal would likely be. Exhibit 1039 is a true and correct copy in a condition that creates no suspicion about its authenticity.

180. Attached hereto as Attachment 18A is a true and correct copy of the MARC record for *The New England Journal of Medicine* from the Ebling Health Sciences Library at the University of Wisconsin – Madison online catalog. Library ownership is indicated by the presence of the library's code ("GZM") in field 049. The library continues to update this MARC record and enhanced the MARC record to meet current cataloging rules. The most recent enhancement to Attachment 18A occurred on March 27, 2018, as shown in field 005 ("20180327"). I personally identified and retrieved the MARC record that is Attachment 18A.

181. Based on finding a print copy of Exhibit 1039 in the Ebling Health Sciences Library at the University of Wisconsin – Madison and MARC record in its online library catalog attached as Attachment 18A, it is my opinion that the Robert article published in *The New England Journal of Medicine* was publicly available in print on June 30, 2011, as shown by the label on the cover (Exhibit 1039, page 1).

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[90] https://pubmed.ncbi.nlm.nih.gov/21639810/

This date stamp has the general appearance of date stamps that libraries have long affixed to periodicals to show when an issue was received, verified, and checked.

182. Attachment 18A includes an entry in field 050 ("R11 $b .B7")—as described above, a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system), an entry in field 060 ("W1 $b NE388")—as described above, a subject matter classification number consistent with the National Library of Medicine classification system (analogous to the Dewey Decimal classification system), and an entry in field 082 ("610/.5")—as described above, a subject matter classification number consistent with the Dewey Decimal classification system. Attachment 18A also shows that Exhibit 1039 was catalogued with two descriptor terms reading "Medicine $v Periodicals" (see Attachment 18B, Library of Congress subject heading sh2008107665) and "Surgery $v Periodicals" (see Attachment 18C, Library of Congress subject heading sh2008112392) in the 650 fields.

183. As noted in the holdings information (362 field), the Library of Congress has received *The New England Journal of Medicine* since 1928 and continues to receive the publication.[91] In view of the MARC record for Exhibit

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[91] The publication was originally titled the *Boston Medical and Surgical Journal* (February 1828-February 1928) and adopted the current title, *The New England Journal of Medicine,* in February 1928.

1039, the Robert article was publicly available on June 30, 2011, because the serial title had been received, cataloged, and indexed in the Ebling Health Sciences Library at the University of Wisconsin – Madison and made part of its online catalog database.

184. Attached hereto as Attachment 18D is a true and correct copy of the MARC record for *The New England Journal of Medicine* obtained from the OCLC bibliographic database. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 18D, that library code is "MUL," which means that the MARC record for this serial was cataloged as part of the Minnesota Union List of Serials at the University of Minnesota Libraries (Minneapolis, Minnesota). As can be seen in field 008 ("Date entered on file"), a cataloger at the University of Minnesota Libraries created OCLC record number 1587974 on September 1, 1975 ("750901"). The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to Attachment 18D occurred on August 20, 2024, as shown in field 005 ("20240820"). I personally identified and retrieved the MARC record that is Attachment 18D. The "BLvl" entry in Attachment 18D is "s," which indicates that *The New England Journal of Medicine* is a serial publication. Field 310 of Attachment 18D reads "Weekly." Accordingly, the MARC record for Exhibit 1039 corresponds to *The New England Journal of Medicine* from the time the serial title

adopted the current title and includes the date of the Robert article.

185. Attachment 18D includes an entry in 050 ("R11 $b .B7")—as described above, a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system), an entry in field 060 ("W1 $b NE388")—as described above, a subject matter classification number consistent with the National Library of Medicine classification system (analogous to the Dewey Decimal classification system), and an entry in field 082 ("610/.5")—as described above, a subject matter classification number consistent with the Dewey Decimal classification system. Attachment 18D also shows that Exhibit 1039 was catalogued with two descriptor terms reading "Medicine $v Periodicals" (see Attachment 18B, Library of Congress subject heading sh2008107665) and "Surgery $v Periodicals" (see Attachment 18C, Library of Congress subject heading sh2008112392) in the 650 fields. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 18D was indexed according to its subject matter by virtue of at least four independently sufficient classifications: the field 050 entry, the field 060 entry, the field 082 entry, and the field 650 entries. As of September 1, 1975, the MARC record attached hereto as Attachment 18D was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that subscribed to the serial, which means that the corresponding publication was

publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

186. WorldCat indicates that *The New England Journal of Medicine* as cataloged at the University of Minnesota Libraries is currently available from 3,970 libraries.[92] In view of the above, this issue of *The New England Journal of Medicine* was publicly available on June 30, 2011, because by that date it had been cataloged and indexed at the University of Minnesota Libraries, made part of the OCLC bibliographic database, and received at the Library of Congress. For these reasons, it is my opinion that Exhibit 1039 was published and accessible to the public on June 30, 2011.

VI. SUMMARY OF OPINIONS

187. In view of the foregoing, it is my opinion that the publications described above were publicly available on or about the corresponding date listed in the table below:

Document	Publication	Publicly Available
Exhibit 1007	Wolchok, Jedd D., Bart Neyns, Gerald Linette, Sylvie Negrier, Jose Lutzky, Luc Thomas, William Waterfield, Dirk Schadendorf, Michael Smylie, Troy Guthrie Jr, Jean-Jacques Grob, Jason Chesney, Kevin Chin, Kun Chen, Axel Hoos, Steven J O'Day, and Celeste Lebbé. "Ipilimumab monotherapy in patients with	December 9, 2009

[92] https://search.worldcat.org/title/1587974

Document	Publication	Publicly Available
	pretreated advanced melanoma: a randomized, double-blind, multicentre, phase 2, dose-ranging study." *The Lancet Oncology*, vol. 11, issue 2 (February 2010): 155–164.	
Exhibit 1009	Sznol, M., J. D. Powderly, D. C. Smith, J. R. Brahmer, C. G. Drake, D. F. McDermott, D. P. Lawrence, J. D. Wolchok, S. L. Topalian, and I. Lowy. "Safety and antitumor activity of biweekly MDX-1106 (Anti-PD-1 BMS-936558ONO4538) in patients with advanced refractory malignancies." *Journal of Clinical Oncology*, vol. 28, no. 15 (20 May 2010): 2506.	June 2, 2010
Exhibit 1010	Fife, Brian T., and Jeffrey A. Bluestone. "Control of peripheral T-cell tolerance and autoimmunity via the CTLA-4 and PD-1 pathways." *Immunological Reviews*, vol. 224, issue 1 (August 2008): 166–182.	August 4, 2008
Exhibit 1019	Dillard, Troy, Chris G. Yedinak, Joshi Alumkal, and Maria Fleseriu. "Anti-CTLA-4 antibody therapy associated autoimmune hypophysitis: serious immune related adverse events across a spectrum of cancer subtypes." *Pituitary*, vol. 13, no. 1 (2010): 29-38.	July 29, 2009
Exhibit 1020	Di Giacomo, Maurizio Biagioli, and Michele Maio. "The Emerging Toxicity Profiles of Anti-CTLA-4 Antibodies Across Clinical Indications." *Seminars in Oncology,* vol. 37, no. 5 (October 2010): 499-507.	November 10, 2010
Exhibit 1021	Weber, Jeffrey. "Review: anti-CTLA-4 antibody ipilimumab: case studies of clinical response and immune-related adverse events." *The Oncologist*, vol. 12, issue 7 (1 July 2007): 864–872.	July 1, 2007
Exhibit 1022	Pardoll, Drew M. "The blockade of immune checkpoints in cancer immunotherapy." *Nature Reviews. Cancer*, vol. 12, no. 4 (April 2012): 252-264.	March 22, 2012

Document	Publication	Publicly Available
Exhibit 1016	Okazaki, Toku, and Tasuku Honjo. "PD-1 and PD-1 Ligands: From Discovery to Clinical Application." *International Immunology,* vol. 19, no. 7 (2 July 2007): 813-824.	July 2, 2007
Exhibit 1030	Curran, Michael A., Welby Montalvo, Hideo Yagita, and James P. Allison. "PD-1 and CTLA-4 Combination Blockade Expands Infiltrating T cells and Reduces Regulatory T and Myeloid Cells within B16 Melanoma Tumors." *Proceedings of the National Academy of Sciences of the United States of America, vol.* 107, no. 9 (2 March 2010): 4275-4280.	February 16, 2010
Exhibit 1032	Humphrey, R. W., Laura M. Brockway-Lunardi, David T. Bonk, Kathleen M. Dohoney, James H. Doroshow, Sandra J. Meech, Mark J. Ratain, Suzanne L. Topalian, and Drew M. Pardoll. "Opportunities and Challenges in the Development of Experimental Drug Combinations for Cancer." *Journal of the National Cancer Institute*, vol. 103, no. 16 (17 August 2011): 1222-1226.	August 17, 2011
Exhibit 1036	Hodi, F. Stephen, Martin C. Mihm, Robert J. Soiffer, Frank G. Haluska, Marcus Butler, Michael V. Seiden, Thomas Davis, Rochele Henry-Spires, Suzanne MacRae, Ann Willman, Robert Padera, Michael T. Jaklitsch, Sridhar Shankar, Teresa C. Chen, Alan Korman, James P. Allison, and Glenn Dranoff. "Biologic activity of cytotoxic T lymphocyte-associated antigen 4 antibody blockade in previously vaccinated metastatic melanoma and ovarian carcinoma patients." *Proceedings of the National Academy of Sciences of the United States of America*, vol. 100, no. 8 (15 April 2003): 4712–4717.	April 7, 2003
Exhibit 1037	Brahmer, Julie R., Charles G. Drake, Ira Wollner, John D. Powderly, Joel Picus, William H. Sharfman, Elizabeth Stankevich, Alice Pons,	July 7, 2010

Document	Publication	Publicly Available
	Theresa M. Salay, Tracee L. McMiller, Marta M. Gilson, Changyu Wang, Mark Selby, Janis M. Taube, Robert Anders, Lieping Chen, Alan J. Korman, Drew M. Pardoll, Israel Lowy, and Suzanne L. Topalian. "Phase I Study of Single-Agent Anti-Programmed Death-1 (MDX-1106) in Refractory Solid Tumors: Safety, Clinical Activity, Pharmacodynamics, and Immunologic Correlates." *Journal of Clinical Oncology,* vol. 28, no. 19 (1 July 2010): 3167.	
Exhibit 1040	Le Tourneau, Christophe, J. Jack Lee, and Lillian L. Siu. "Dose escalation methods in Phase I cancer clinical trials." *Journal of the National Cancer Institute*, vol. 101, issue 10 (20 May 2009): 708-720.	May 20, 2009
Exhibit 1042	Simeone, Ester, and Paolo A. Ascierto. "Immunomodulating antibodies in the treatment of metastatic melanoma: The experience with anti-CTLA-4, anti-CD137, and anti-PD1," *Journal of Immunotoxicology*, vol. 9, issue 3 (July-September 2012): 241-247.	April 23, 2012
Exhibit 1044	Ascierto, Paolo A., Ester Simeone, Mario Sznol, Yang-Xin Fu, and Ignacio Melero. "Clinical Experiences with Anti-CD137 and Anti-PD1 Therapeutic Antibodies." *Seminars in Oncology*, vol. 37, issue 5 (October 2010): 508-516.	November 10, 2010
Exhibit 1045	Korman, Alan, Bing Chen, Changyu Wang, Linda Wu, Pina Cardarelli, and Mark Selby. "Activity of Anti-PD-1 in murine tumor models: Role of 'host' PD-L1 and synergistic effect of anti-PD-1 and anti-CTLA-4." *Journal of Immunology*, vol. 178, issue 1, supplement (1 April 2007): 48-37.	April 1, 2007
Exhibit 1015	Parry, Richard V., Jens M. Chemnitz, Kenneth A. Frauwirth, Anthony R. Lanfranco, Inbal Braunstein, Sumire V. Kobayashi, Peter S. Linsley, Craig B. Thompson, and James L.	November 2005

Document	Publication	Publicly Available
	Riley. "CTLA-4 and PD-1 Receptors Inhibit T-Cell Activation by Distinct Mechanisms." *Molecular and Cellular Biology,* vol. 25, issue 21 (November 2005): 9543-9553.	
Exhibit 1039	Robert, Caroline, Luc Thomas, Igor Bondarenko, Steven O'Day, Jeffrey Weber, Claus Garbe, Celeste Lebbe, Jean-François Baurain, Alessandro Testori, Jean-Jacques Grob, Neville Davidson, Jon Richards, Michele Maio, Axel Hauschild, Wilson H. Miller, Jr., Pere Gascon, Michal Lotem, Kaan Harmankaya, Ramy Ibrahim, Stephen Francis, Tai-Tsang Chen, Rachel Humphrey, Axel Hoos, and Jedd D. Wolchok. "Ipilimumab plus Dacarbazine for Previously Untreated Metastatic Melanoma." New England Journal of Medicine, vol. 364, no. 25 (30 June 2011): 2517-2526.	June 30, 2011

180. In signing this Declaration, I recognize that the Declaration will be filed as evidence in a case before the Patent Trial and Appeal Board of the United States Patent and Trademark Office. I also recognize that I may be subject to cross-examination in the case and that cross-examination will take place within the United States. If cross-examination is required of me, I will appear for cross-examination within the United States during the time allotted for cross-examination.

181. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful

false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code.

DATED: February 28, 2025

By: Sylvia D. Hall-Ellis

Sylvia D. Hall-Ellis, Ph.D.

ATTACHMENT 1

CURRICULUM VITAE SYLVIA D. HALL-ELLIS

EDUCATION

Ph.D., University of Pittsburgh, Pittsburgh, Pennsylvania, 1985
M.P.S., University of Denver, Denver, Colorado, 2014
Post Graduate Studies, University of Texas – San Antonio, Texas, 1975-1976
M.L.S., University of North Texas, Denton, Texas, 1972
B.A., Rockford University, Rockford, Illinois, 1971

PROFESSIONAL EXPERIENCE

1981- **Consultant for higher education, non-profit organizations, and corporations.**

2002- **Adjunct Professor, School of Information, San José State University, San José, California.** Serve as part-time faculty member teaching graduate students in technical services (cataloging, bibliographic control, classification), "core courses," and special topics.

2014-2016 **Director, Grants and Resource Development, Colorado Community College System.** Provided leadership and vision to foster the continued growth of rigorous scholarship, innovative projects, and creative work for statewide system, 13 campuses, and 50 teaching sites serving 155,000 students. Responsible for leadership and ensured efficient functioning of contract and grants in compliance with state & federal requirements and successful implementation and management. Served as a subject matter expert and liaison for college Grant Directors for all issues relating to grants and subcontracts.

2010-2014 **Senior Grant Administrator, Morgridge College of Education, University of Denver (Colorado).** Provided leadership and vision to foster continued growth of rigorous scholarship, innovative research, and creative work in the Morgridge College of Education. Ensure that contract and grants processes function effectively and efficiently for 60 faculty and researchers with a focus on the successful progression and efficient management of grants totaling $13M. Worked effectively and collegially with Department Chairs and Program Coordinators on operational grant-related management activities and with a broad range of internal and external constituencies. Supported the dissemination and promotion of faculty research and scholarship to outside constituents at conferences and through publications. Assisted Principal Investigators and grant project teams by coaching, mentoring, and financial management.

2011-2013 **Interim Director & Assistant Dean, Westminster Law Library, Sturm College of Law, University of Denver.** Planned, organized, and directed all administrative activities for the library serving students, faculty, and alumni; oversaw the employment, retention, promotion, transfer and termination of library personnel; represented the library at professional conferences and public meetings; created and promoted a climate and culture of acceptance for new programs and services, a positive high-quality image of the law library, and that reflect the organization's values, encourage excellent performance, and reward high productivity and innovation; provided leadership and set strategic direction of the organization; ensured that the library provided excellent customer service through solution-oriented staff response to patron needs and by responsiveness and continuous improvement of the organization; promoted, developed, and maintained positive working relationships with colleagues and customers including key stakeholders and groups, higher education institutions, the legal community, other regional libraries and districts statewide, and national library organizations.

2007-2014 **Associate Professor, Library & Information Science, Morgridge College of Education, University of Denver (Colorado).** Served in leadership role and worked collaboratively in program, college, campus and community environments. Advised and supervised students, taught core and specialized courses at the graduate level in an integrative, student-centered learning environment. Served on LIS, College, and University committees, and maintained working relationships with colleagues in other academic units and information professionals in the Rocky Mountain region and beyond. Served on and chair doctoral student dissertation committees. Oversaw and facilitated the College and LIS graduate student association.

2002-2007 **Assistant Professor, Library & Information Science, College of Education, University of Denver (Colorado).** Served as tenure-track faculty member teaching graduate students in "core courses," resource description and access, service learning, and independent studies. Advised graduate students, participate on LIS and College committees, and serve on doctoral student dissertation committees. Oversaw and facilitated the LIS graduate student association and alumni association.

2000-2002 **Affiliate Faculty, Library & Information Science, College of Education, University of Denver (Colorado).** Served as part-time faculty member teaching graduate students in technical services (cataloging, bibliographic control, classification), "core courses," and special topics. Oversaw and facilitated the LIS graduate student association and alumni association.

2000-2001 **Special Assistant to the Secretary's Regional Representative, U.S. Department of Education, Region VIII, Denver, Colorado.** Served as the principal advisor and representative of the U. S. Secretary of Education's Regional Representative (SRR). Ensured the implementation of major goals of the SRR and the Secretary. Provided leadership on behalf of the SRR in contacts with high-level officials in Region VIII requiring sensitive policy interpretation in communication with senior Department officials to solve problems and resolve issues raised by State and local education officials. Served as the primary contact for School-to-Work/Career, Children's Health Insurance Program, and Safe and Drug-Free Schools. Delivered technical assistance to local education agencies and institutions of higher education in technology, professional development, and school construction.

1999-2000 **Catalog Librarian, Jefferson County Public Library, Lakewood, Colorado.** Performed original, copy cataloging and classification of library materials (English and Spanish) using standard library protocols; completed original descriptive cataloging and subject analysis; enhanced brief catalog and authority records in III.

1997-1999 **Development Officer, McREL International, Aurora, Colorado.** Served as senior member of corporate management team in strategic planning, development of proposals and contracts, implementation, and evaluation of new services, products, and programs for educational agencies. Provided creative leadership to corporate committees to solicit ideas, identify goals and objectives, plan, develop, present, and evaluate professional development opportunities.

1995-1997 **Education Specialist, Education Service Center, Region One, Edinburg, Texas.** Served as member of Administrative Cabinet team in strategic planning, development of proposals and contracts, implementation, and evaluation of telecommunications capabilities, services, products, and programs for 40 school districts serving 283,000 students in 7 counties. Provided creative leadership to regional and state committees to solicit ideas, identify strategic goals and objectives, plan, develop, present, and evaluate funding opportunities and professional development for 400 librarians.

1993-1996 **Assistant Professor of Library Science, Sam Houston State University, Huntsville, Texas.** Served a faculty member teaching 400 graduate students in technical services (cataloging, bibliographic control, classification), automation, and networking. Participated in distance education program and coordinated annual conference. Conducted university and Texas Library Association-funded field research focused on library collection development and academic achievement.

1992-1993 **Head Librarian, Rocky Mountain College of Art & Design, Denver, Colorado.** Responsible for the daily operation, selection and acquisition of materials, formulation of policies for library operations, media center, and photography/slides archives. Designed and implemented library automation and delivery of electronic resources to college community.

1981-1985 **Development Officer, PRLC, Inc., Pittsburgh, Pennsylvania.** Served as senior member of corporate management team in strategic planning, development of proposals and contracts, implementation, and evaluation of new services, products, and programs for 100 institutional member organizations. Coordinated the development of proposals and contracts totaling $4,000,000 annually. Provided creative leadership to corporate committees to solicit ideas, identify goals and objectives, plan, develop, present, and evaluate professional development opportunities.

1981 **Director of Library Development, Pennsylvania Department of Education, Harrisburg, Pennsylvania.** Responsible for statewide development, technical assistance, professional development, resource sharing, children's services, institutional library services, networking, and state aid program for all libraries throughout the Commonwealth. Functioned as liaison to Governor's Advisory Council, LSCA Advisory Council, District Administrators, private colleges, universities, consortia managers, and network directors. Supervised $14,000,000 formula-based state aid program and $3,000,000 grant awards to individual libraries, consortia, and networks.

1978-1981 **Assistant Director, Southern Tier Library System, Corning, New York.** Coordinated operation of system-wide programs (technical assistance, professional development, resource sharing, technical services, outreach) to 40 public libraries in 5 counties serving 500,000 residents. Solicited ideas, identified goals, sponsored, and evaluated professional development opportunities and technical assistance sessions.

1976-1978 **Division Librarian for Technical Services, Corpus Christi Public Libraries, Corpus Christi, Texas.** Provided leadership in acquisitions, cataloging, serials control, and processing for main library and 4 branches serving 250,000 residents. Participated as senior member of library management team. Compiled and prepared technical evaluations, reports, and statistical analyses of Division operations to measure the achievement and cost of annual goals, objectives, and staff performance.

1975-1976 **System Coordinator, San Antonio Major Resource Center, San Antonio, Texas.** Served as senior member of the management team for District X Office, charged to provide technical assistance, resource sharing, media services, and professional development to librarians and staff representing 30 public library jurisdictions in 21 counties serving 1,500,000 residents. Functioned as liaison to System Director, staff, and members of governing bodies with the System Board of Directors and the Texas State Library and Historical Commission. Prepared LSCA grant applications and monitored awards totaling $1,100,000 annually.

1973-1975 **Bilingual Branch Librarian, San Antonio Public Library, San Antonio, Texas.** Worked as librarian providing reference, information, and readers' advisory services in branch serving 50,000 Spanish-speaking residents in southwest San Antonio. Participated in collection development and resource acquisition activities, specializing in children's work, Spanish language resources, and multicultural studies.

1972-1973 **Librarian, Holding Institute, Laredo, Texas.** Worked as high school librarian serving 500 boarding students in Spanish-speaking environment of private school. Provided reference, research assistance, and library instruction to students and 35 faculty members.

1966-1971 **Rockford Public Library, Rockford, Illinois.** Worked in branches as part-time as a Library Assistant, Clerk, and Page in city library serving 150,000 residents.

PUBLICATIONS

Editor-reviewed Monographs (Completed and in Progress)

Hall-Ellis, Sylvia D., and Mary Bolin. *Contemporary Cataloging in an RDA Environment: A Handbook for Students and Practitioners.* Chicago, IL: American Library Association. Under contract & In development.

RDA Testing: Lessons Learned and Challenges Revealed. Sylvia D. Hall-Ellis and Robert O. Ellett, Jr., eds. Binghamton, N.Y.: Haworth, 2012. 128 p.

Hall-Ellis, Sylvia D., Stacey L. Bowers, Christopher D. Hudson, and M. Claire Williamson. *Librarian's Handbook for Seeking, Writing, and Managing Grants.* Santa Barbara, Calif.: Libraries Unlimited, 2011. 315 p.

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Grealy, Deborah S. and Sylvia D. Hall-Ellis. *From Research to Practice: The Scholarship of Teaching and Learning in LIS Education.* Westport, Conn.: Libraries Unlimited, 2009. 175 p.

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Hall-Ellis-Sylvia D. "Job Design for Cataloging and Metadata Librarians." Submitted to *Journal of Library Administration.* In progress.

Hall-Ellis, Sylvia D. "The Relationship of Situational Leadership and the Dreyfus Model of Skill Acquisition for Supervisors in Cataloging and Metadata Services." To be submitted to *Library Resources and Technical Services.* In progress.

Hall-Ellis, Sylvia D. *The Relationship of Core Competencies on Learning Outcomes and Employers' Expectations for Catalog Librarians and Metadata Specialists.* To be submitted to the *Journal of Education for Library and Information Science.* In progress.

Hall-Ellis, Sylvia D. "Building Cataloger Competencies: The Dreyfus Model as a Prototype for the Education and Professional Development of Catalog Librarians and Metadata Specialists in Bibliographic Control." To be submitted to the *Cataloging & Classification Quarterly.* In progress.

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Hall-Ellis, Sylvia D. "Investment in Staff Development for Seeking External Grant Funds." *The Bottom Line 27*, no. 1 (January 2014): 22-25.

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Faculty Voices: Testimonials from the Frontiers of a Development Education Redesign. Elaine DeLott Baker, Marilyn Smith, and Sylvia D. Hall-Ellis, eds. Denver, Colo.: Colorado Community College System, 2014.

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Hall, Sylvia D. *OCLC/ILL Subsystem at Southern Tier Library System.* Albany, N.Y.: SUNY/OCLC Network, 1980.

Hall, Sylvia D. *Retrospective Conversion for Major Public Libraries in South Central New York State: A Technical Report*. 2 vols. Corning, N.Y.: Southern Tier Library System, 1979-1980.

Hall, Sylvia D. *The Librarian and the Mexican-American Patron in Texas.* Austin, Tex.: Texas State Library, 1978.

Other Publications

Hall-Ellis, Sylvia D., ed. *Library and Information Science Program Self-Study Document for Accreditation by the American Library Association.* St. Paul, MN: St. Catherine University, 2017. 255 p.

Hall-Ellis, Sylvia D., and Robert O. Ellett, Jr., guest editors. *RDA Testing: Lessons Learned and Challenges Revealed: A Special Issue of Cataloging & Classification Quarterly* 49, no. 7-8 (November 2011).

Hall-Ellis, Sylvia D. and Robert O. Ellett, Jr. *Fundamentals of Cataloging I: An Online ALCTS Course.* Chicago, Ill.: American Library Association, 2009.

Hall-Ellis, Sylvia D., Angela J. Kinney and Martha Ann Bace, editors. *Best Practices in Cataloging Education Identified at the 2007 ALCTS Pre-conference: A Special Issue of the Journal for Library and Information Science Education* 49, no. 2 (Spring 2008).

Hall-Ellis, Sylvia D. *Cataloging Education: A New Emphasis for the Library and Information Science Curriculum.* Presentation delivered to the ALCTS Pre-conference, 132nd Annual Conference, American Library Association, Washington, D.C., June 22, 2007. http://www.loc.gov/aba/professional/

Hall-Ellis, Sylvia D. "*Cataloger Competencies: Do the Employers Require What the Professors Teach?*" Presentation delivered to the ALCTS CCS Heads of Cataloging Discussion Group, 131st Annual Conference, American Library Association, New Orleans, Louisiana, June 26, 2006. http://dlist.sir.arizona.edu/

Hall-Ellis, Sylvia D., guest editor, with Deborah S. Grealy, Clara L. Sitter, and Tassos Petrou. *Library Students' Voices in Colorado: An Issue of Colorado Libraries* 31:1 (Spring 2005).

Hall-Ellis, Sylvia D., ed. *Library and Information Science Program Self-Study Document for Accreditation by the American Library Association.* Denver, Colo.: University of Denver, College of Education, 2003. 125 p. with CD-ROM.

Hall-Ellis, Sylvia D. and Deborah S. Grealy, guest editors. *Library Education in Colorado: An Issue of Colorado Libraries* 29, no. 2 (Summer 2003).

Hall-Ellis, Sylvia D., ed. *Library and Information Science Program Self-Study Document for Accreditation by the American Library Association.* Denver, Colo.: University of Denver, College of Education, 2003.

Hall-Ellis, Sylvia D. "Adaptive Furniture for the ADA-Qualified: An Investigative Study." 2001. Unpublished manuscript.

Hall-Ellis, Sylvia D. "Cataloging Electronic Serials: A Study in User Access and Article Delivery." 2001. Unpublished manuscript.

Hall-Ellis, Sylvia D. "E-books: Acquisition and Circulation Issues in Public Libraries." 2001. Unpublished manuscript.

Hall-Ellis, Sylvia D. "Authority Control and Its Importance in School Library Media Online Catalogs." 1999. Unpublished manuscript.

Hall, Sylvia D. "Cooperation Improving Service in San Antonio System." *Texas Libraries* XXXVII (Spring 1976): 27-29.

Hall, Sylvia D. "Summer is Sea Monstrously Fun!" *Texas Library Journal* L (December 1974): 224-226.

Hall, Sylvia D. "A Brief Annotated Bibliography of Non-book Materials on the Mexican American." *Texas Library Journal* XLVIII (October 1972): 213-232.

Book Reviews

ALA Book of Library Grant Money. Ann Kepler, ed. 8th ed. Chicago, IL: American Library Association, 2011. 978-0-8389-1058-0, $175.00 [*Colorado Libraries,* June 2012]

Developing a Compensation Plan for Your Library. Paula M. Singer and Laura L. Francisco, comps. 2nd ed. Chicago, IL: American Library Association, 2009. 978-0-8389-0985-0, $57.00 [*Colorado Libraries,* March 2012]

Frugal Librarian. Carol Smallwood, ed. Chicago, IL: American Library Association, 2011. 978-0-83891-075-7, $42.00 [*Colorado Libraries,* February 2012]

Dowlin, Ken. *Getting the Money: How to Succeed in Fundraising for Public and Nonprofit Libraries.* Westport, Conn.: Libraries Unlimited, 2008. 978-1-59158-597-X, $50.00 [*Colorado Libraries,* February 2009]

Lundahl, Mats. *Bebo de Cuba; Bebo Valdés y Su Mundo*, by Mats Lundahl. Traducción de Linda Oakeshott Dragó. Barcelona: RBA Libros, 2008. 978-849-86-7259-6, $33.99 [*Críticas*, November 2008]

Bonelli, Florencia. *Marlene*, by Florencia Bonelli. Buenos Aires: Aguilar, Altea, Taurus, Alfaguara, 2008. 978-987-04-0995-3, $24.95 [*Críticas*, October 2008]

Keret, Etgar. Traducción de Ana María Bejarano. *Pizzería Kamikaze y Otras Relatos.* México, D.F.: Editorial Sexto Piso, 2008. 968-5679-29-0, no price given [*Críticas*, September 2008]

Littauer, Marita, and Florence Littauer. *Enriquece tu Comunicación. Miami, Fla.: Editorial Unilit, 2008.* 978-0-7899-1521-4, $11.99 [*Críticas*, August 2008]

Martínez, Guillermo. *La Muerte Lenta de Luciana B.* New York: Rayo Planeta, 2008. 978-0-06-156551-9, $14.95 [*Críticas*, May 2008]

Matthews, Joseph R. *The Evaluation and Measurement of Library Services.* Westport, Conn.: Libraries Unlimited, 2007. 978-1-59158-532-9, $50.00 [*Colorado Libraries,* April 2008]

Gómez-Jurado, Juan. *A Masacre de Virginia Tech: Anatomía de una Mente Torturada.* Barcelona: Ediciones El Andén, 2007. 978-84-935789-4-7, €16.50 [*Críticas*, February, 2008]

Matthews, Joseph R. *Library Assessment in Higher Education.* Westport, Conn.: Libraries Unlimited, 2007. 978-1-59158-531-2, $45.00 [*Colorado Libraries,* February 2008]

Chacón, Inma. *La Princesa India: Cuando el Viento Azul.* México: Alfaguara, 2006. 970-770398-9, $19.95 [*Críticas*, June 2006]

Vargas Llosa, Mario. *Israel/Palestina: Paz o Guerra Santa.* fotogs. by Morgana Vargas Llosa. Spain/U.S.: Aguilar: Santillana, 2006. 84-03-09691-7, paper, $19.95 [*Críticas*, May 2006]

Findlay, Diane. *Digging into Dewey.* Fort Atkinson, Wisc.: Upstart Books, 2005. 978-1-932146-18-9, $16.95 [*Colorado Libraries,* May 2006]

Pequeñas Resistencias 4: Antología del Nuevo Cuento Norteamericano y Caribeño. Menéndez, Ronaldo, Ignacio Padilla & Enrique del Risco, eds. Madrid**:** Páginas de Espuma, 2005. 84-95642-59-X, paper, $36.95 [*Críticas*, April 2006]

Rueda, André. *Vengo a Salvar a España: Biografía de Un Franco Desconocido.* Madrid**:** Nowtilus (Investigación Abierta), 2005. photogs., bibliog. 84-9763-202-8, paper, $23.95 [*Críticas*, March 2006]

Becerra, Ángela. *El Penúltimo Sueño.* 1st ed. Barcelona: Planeta, 2005. 84-08-05795-2, $25.95. [*Críticas*, January 2006]

Aguilar Camín, Héctor. *La Conspiración de la Fortuna.* 1st ed. México: Planeta, 2005. 970-37-0368-2, $19.95 [*Críticas*, October 2005]

México en Sus Libros. Enrique Florescano with Pablo Mijangos, editors & compilers. 1st ed. México, D.F.: Taurus Aguilar, 2004. 968-19-0783-3, $16.95 [*Críticas*, September 2005]

Historia Económica de México. Coordinator, Enrique Semo. México: Universidad Nacional Autónoma de México, Editorial Oceano de México, 2004. 13 vols. 970-32-0805+3 (obra completa), $9.25 each [*Críticas,* August 2005]

Czarnowsky, Christyne A. and Michael H. Williams. *Managing Your Wired Workforce: A Practical Guide.* Denver, Colo.: Bradford Pub., 2003. 1-883726-79-4, $24.95 [*Colorado Libraries,* 2004]

Abraham Lincoln. Colección Grandes Biografías. Madrid: Edimat Libros, 2003. 84-8403-858-0, €4.95 [*Críticas,* 2004]

Alponte, Juan María. *Colón: el Hombre, el Navegante, la Leyenda.* México, D.F.: Aguilar, 2003. 968-19-1260-8, $16.95 [*Críticas,* 2004]

Olcese Salvatecci, Alfieri. *Cómo Estudiar con Ėxito: Téchnicas yHhábitos Para Aprender Major.* México, D.F.: Alfaomega Grupo Editor, 2002. 970-15-0764-9 [*Críticas,* 2003]

Mujeres Como Islas: Antología de Narradoras Cubanas, Dominicanas, Puertoriqueñas. Edición: Olga Marta Pérez, Thelma Jiménez, Andrés Blanco D., eds. Santo Domingo, República Dominicana: Ediciones Ferilibro, 2002. 959-209-419-5 [*Críticas,* 2003]

Tibol, Raquel. *Los Murales de Diego Rivera: Universidad Autónoma Chapingo.* México, D.F.: Editorial RM, Universidad Autónoma Chapingo, 2002. 968-5208-08-5 [*Críticas,* 2003]

Lindsay-Poland, John. *Emperors in the Jungle: the Hidden History of the U.S. in Panama.* Durham, N.C.: Duke University Press, 2003. 0-8223-3098-9, $18.95 [*Críticas,* 2003]

Kaplan, Allison G. and Ann Marlowe Riedling. *Catalog It! A Guide to Cataloging School Library Materials.* Worthington, Ohio: Linworth Pub., 2002. 1-58683-014-7, $44.95 [*Colorado Libraries,* 2002]

Bardach, Ann Louise. *Cuba Confidential: Love and Vengeance in Miami and Havana.* New York: Random, 2002. 0-375-50489-3, $25.95 [*Library Journal,* 2002]

Swan, James. *Fundraising for Libraries: 25 Proven Ways to Get More Money for Your Library.* New York: Neal Schuman, 2002. 1-55570-433-6, $69.95 [*Colorado Libraries,* 2002]

Puíg de Lange, Victoria. *Sol Con Agua.* Nashville, Tenn.: Editorial Vistazo/Ediciones Reio Negro, 2002. 0-9724506-0-2, $17.75 [*Críticas,* 2002]

The Encyclopedia of Latin American Politics. Edited by Diana Kapiszewski; assistant editor, Alexander Kazan. Westport, Conn.: Oryx Press, 2002. 1-57356-306-4, $74.95 [*Library Journal,* 2002]

Vargas Lizano, Isabel. *Y Si Quieres Saber de Mi Pasado.* Con la colaboración de J.C. Vales. Madrid: Santillana Ediciones Generales, S.L., 2002. 84-03-09278-4, $18.95 [*Críticas,* 2002]

Ruy Sánchez, Alberto. *Los Jardines Secretos de Mogador: Voces de Tierra.* México, D.F.: Alfaguara, S.A., 2001. 968-19-0879-1, $16.95 [*Críticas,* 2002]

Chávez, Ricardo and Celso Santajuliana. *El Final de las Nubes.* Barcelona: RBA Libros, S.A., 2001. 84-7901-760-0, $11.95 [*Críticas,* 2002]

The Power of Language / El Poder de la Palabra: Selected Papers from the Second REFORMA National Conference. Edited by Lillian Castillo-Speed and the REFORMA National Conference Publications Committee. Englewood, Colo.: Libraries Unlimited, 2001. 1-563089459, $35.00 [*Colorado Libraries,* 2001]

Martínez, Rubén. *Crossing Over: A Mexican Family on the Migrant Trail.* Metropolitan: Holt, 2001. 0-8050-4908-8, $26.00 [*Library Journal*, 2001]

Guevara, Ernesto "Che." *The African Dream: the Diaries of the Revolutionary War in the Congo.* Translated from the Spanish by Patrick Camiller. With an introduction by Richard Gott and a foreword by Aleida Guevara March. New York: Grove Press, 2001. 0-8021-3834-9, $13.00 [*Library Journal*, 2001]

Cooper, Gail and Garry Cooper. *New Virtual Field Trips.* Englewood, Colo.: Libraries Unlimited, 2001. 1-56308-887-8, $27.50 [*Colorado Libraries,* 2001]

NATIONAL SERVICE & PROFESSIONAL AFFILIATIONS

American Library Association, Life Member

Association for Library Collections & Technical Services (now CORE)
Cataloging, Classification, and Metadata Section
Margaret Mann Citation Committee, 2023-
ALCTS Editorial Board, Member, 2015-2019
Committee on Cataloging: Description and Access, Member, 2008-2012
Test Site for RDA, Manager, 2009-2011
Nominating Committee, Member, 2007-2008
Committee for Education and Training of Catalogers, Chair, 2006-2007, Member, 2003-2007
Competencies & Education for a Career in Cataloging Interest Group, Chair, 2010-2012; Member, 2010-
President's Program Committee, 2015-2016
Education Committee, Member, 2005-2007
Task Force on Competencies and Education for a Career in Cataloging, Chair, 2007-2009
2007 Annual Meeting Pre-conference, "What They Don't Teach in Library School: Competencies, Education and Employer Expectations for a Career in Cataloging," Steering Committee Chair
Fundraising Committee, Member, 2004-2006
Office of Diversity
Committee on Diversity, Chair, 2010-2011
Diversity Research Advisory Committee, Member, 2009-2010
Spectrum Scholar Mentor, 2009
Diversity Grants Review Committee, Member, 2007, 2010, 2012
Office of Statistics and Research
Research and Statistics Committee, Member, 2005-2007; Intern, 2003-2005
Library Research Round Table
Nominating Committee, 2022-2023
Membership Committee, 2019-2021
Board of Directors, Member At-Large, 2009-2012
Office of Accreditation
Accreditation Panel Member (training completed 2004)
Accreditation Review Panel Member (training completed 2004)

REFORMA, Life Member

National Board of Directors, 2005-2013
National Fundraising Chair, 2005-2013
National Recruiting and Mentoring Committee, 2008-2010
Colorado Chapter, Secretary, 2004-2005
Colorado Chapter Liaison to National Board of Directors, 2004-2013

American Association of Law Libraries (AALL), Life Member Online Audiovisual Catalogers Association (OLAC) Colorado Association of Law Librarians (CoALL)

American Association of University Women Association for Library and Information Science Education (ALISE)

University of Denver ALISE Representative, 2003-2008; 2010-2011
Membership Advisory Committee, 2007-2010
Technical Services Education Special Interest Group, 2003-
Garfield Doctoral Dissertation Award Reviewer, 2012
Garfield Doctoral Dissertation Scholarship Reviewer, 2014

American Association of University Professors (AAUP), 2006-

American Grant Writers Association, 2014- Grant Professionals Institute, 2016- National Grants Management Association, 2014-

Grant Reviewer (National and Regional Team Leader), U.S. Department of Education, 1998- Grant Reviewer, Broadband Technologies Opportunity Program, U.S. Department of Commerce, 2009
Grant Reviewer, Institute of Museum and Library Services, 1998-2000
Grant Reviewer, Colorado Department of Education, 2014-
Grant Reviewer, Colorado State Library, 1998-
Grant Reviewer, American Association of Community Colleges *Working Connections* program, 1999
Peer Reviewer, *Journal for Library and Information Science Education,* 2005-
Peer Reviewer, *Journal of Library Metadata,* 2009
Peer Reviewer, *International Journal of Library and Information Science,* 2011
Regular Columnist, *The Bottom Line*, 2013-2016
Book Reviewer, *Library Journal*, 2001
Book Reviewer, *Críticas*, 2002-2009
Book Reviewer, *Colorado Libraries,* 2000-2012

REGIONAL SERVICE & PROFESSIONAL AFFILIATIONS

Mountain Plains Library Association

Professional Development Grants Committee, Member, 2005-2006
Professional Development Policy and Guidelines Sub-committee Chair, 2006

Colorado Association of Libraries

"Student Voices" Column Editor, *Colorado Libraries,* 2005-2006
Conference Planning Committee, Member, 2002
Technical Services and Automation Division, Chair, 2002-2003; Member, 2000-
Academic Libraries Division, Peer Review Conference Papers Committee, Member, 2007-2009
Education Committee, Member, 1988-1993
Diverse Populations Committee, Member, 2009-2013

SERVICE TO THE UNIVERSITY OF DENVER

Center for Teaching and Learning Faculty Advisory Board, 2007-2008; 2010-2012
Center for Community Engagement and Service Learning Advisory Board, 2007-2012
Faculty Senate
Executive Committee, 2008-2013
Nominations, Rules & Credentials Committee, Chair, 2008-2013; Member 2007-2013
Appointment, Promotion, and Tenure Revision Committee, 2010-2012
Grievance Policy Committee Member, 2007-2010
Law Library Director Search Committee Chair, 2012-2013
PROF Grant Review, College Representative to the University Review Team, 2006, 2008
Project Homeless Connect Evaluations, Principal Investigator, 2006-2009
University Technology Council, 2007-2009
University of Denver Hyde Interviews for Incoming Freshmen, 2003-2012

SERVICE TO THE MORGRIDGE COLLEGE OF EDUCATION

Appointment, Tenure & Review Committee
Member, voting, 2003-2005; 2007- 2009
Chair, Clinical Faculty Promotion & Tenure Policy Subcommittee, 2008-2009
Member, Community Engagement Subcommittee, 2007-2009
Member, Tenure Review Panel, 2003
Advancement and Alumni Relations Committee, Chair, 2003-2007; Member, 2002-2007
College Building Committee Member, 2004-2010

College of Education Student Association, Faculty Advisor, 2004-2007; 2009-2010
Faculty Senator, 2007-2013
Research and Scholarship Committee, Chair, 2008-2009; Member, 2002-2003, 2008-2009
Research and Grant Mentoring Committee, Chair, 2009-2010
Research Task Force Member, 2010-2012
Search Committee Member, Assistant Professor for Curriculum & Instruction, 2010-2011
Workload Task Force Member, 2010-2011

SERVICE TO THE LIBRARY & INFORMATION SCIENCE PROGRAM

Library and Information Science Student and Alumni Association, Faculty Advisor, 2002-2008
ALA Student Chapter, Faculty Advisor, 2005-2008
Beta Phi Mu Phi Chapter, Faculty Advisor, 2004-2014
Steering Committee Member, Accreditation by the American Library Association, 2001-2004
Search Committee Member, Associate Professor for LIS, 2006
Search Committee Chair, Assistant Professors for LIS, 2003, 2005, 2006, 2007
Search Committee Ex-Officio Member, Director for LIS, 2004

SERVICE TO SAM HOUSTON STATE UNIVERSITY

Rio Roundup: South Texas Literature Conference, Conference Coordinator, 1993
External Relations, Fund Raising, Grants Committee, Chair, 1993-1995
Advisory Council Committee, Chair, 1993-1995
Students, Admissions, and Advisement Committee, Chair, 1994
Institutional Effectiveness Committee, Member, 1993-1995

SERVICE TO THE COLLEGE OF EDUCATION AND APPLIED SCIENCE

Faculty Affairs Committee, Member, 1993-1995
Curriculum Committee, Member, 1993-1995
Continuing Education Committee, Member, 1993-1995

SERVICE TO THE COMMUNITY

French Teacher & Student Exchange with Laon, France, Monarch High School, Boulder Valley School District (Boulder, Colorado), 2017-
Denver/Boulder Games 2022, Board of Directors, Secretary-Treasurer, 2015-2018
United Way Campaign Committee, College of Education, 2006
Arapahoe County, Election Judge for the County Clerk and Recorder, 2000-2005
Arthritis Foundation, Rocky Mountain Chapter, Certified Educator & Trainer, 1999-2008
Bonfils Blood Center, Silver Level Donor, 2000-2016
Denver Museum of Natural History, Docent, 1992
Tech Prep of the Lower Rio Grande Valley, Inc. (Harlingen, Texas) Board of Directors, 1995-1997
Executive Committee, 1996-1997; Chair, Development Committee, 1995-1997; Chair, Fiscal Agency Committee, 1995-1996; Chair, Colleges and Universities Committee, 1996-1997
Gilpin County (Colorado) Public Library Board of Trustees, 1986-1989; Vice President, 1987-1989
City of Central (Colorado) Economic Development Committee, 1987-1989
Columbine Family Health Centers, Inc. (Nederland and Black Hawk, Colorado) Board of Directors, 1988-1989

CERTIFICATION

Permanent Public Librarian Certificate - Pennsylvania, New York, Texas
Westlaw Expert Witness, 2008-
Certified Grant Writer®, 2016-

AWARDS AND HONORS

Advanced Practitioner for Service Learning and Community Engagement, University of Denver, 2011
Platinum Star Alumnae, College of Information, Library Science & Technologies, University of North Texas, 2009
Commendation for Integration of Technologies in Teaching & Learning Environment, University of Denver, 2006
Outstanding Adjunct Faculty Member Award, College of Education, University of Denver, 2002
Beta Phi Mu, Pi, University of Pittsburgh, 1985
Alpha Lambda Sigma, University of North Texas, 1972
Albert Nelson Marquis Lifetime Achievement Award, Who's Who in America
Who's Who in American Women
Who's Who of Women Executives
Dictionary of International Biography
Who's Who in the East
Who's Who in the South and Southwest
Who's Who in the World
Who's Who of Online Professionals
Who's Who in Library and Information Science
2,000 Notable Women
Who's Who of Emerging Leaders
Who's Who in Professional and Executive Women
Who's Who in American Education
International Who's Who of Professional and Business Women
International Leaders in Achievement
International Educator of the Year
Who's Who in Finance and Industry
Who's Who in Finance and Business

Invited International and National Conference Presentations

Hall-Ellis, Sylvia D. *Presentation of the Robert O. Ellett Endowed Scholarship.* Presentation delivered to the School of Information at San Jose State University Alumni & Student Program, American Library Annal Conference, San Diego, Calif., June 29, 2024.

Driscoll, Margaret, Christy Confetti Higgins, Scott Brown, and Sylvia D. Hall-Ellis. *A View from Within: Open House Tour of Three Canvas Core Courses*. Presentation to be delivered at the School of Information, San José State University Professional Development Seminar, San José, California, October 17, 2019.

Hall-Ellis, Sylvia D. *Invest in Me -- I'm Your Future: Succession Planning for Libraries.* Keynote presentation delivered at the ALCTS President's Symposium, Boston, Mass., January 8, 2016.

Seidel, Kent E. and Sylvia D. Hall-Ellis. *Making Grants Work for You: Strategies for Doctoral Students and Early Career Scholars.* Presentation delivered at the University Council for Educational Administration, Early Career Scholars Session, Indianapolis, Ind., November 9, 2013.

Hall-Ellis, Sylvia D. *So You Want to be a Manager; Leadership Skills and Competencies for Technical Services Managers and Administrators.* Presentation delivered at the 138th Annual Conference, American Library Association, Chicago, Ill., June 29, 2013.

Seidel, Kent E., Karen S. Riley, Lyndsay Agans, Susan Korach, and Sylvia D. Hall-Ellis. *Making Grants Work for You (Instead of Just Working for Grants).* A panel discussion delivered at the University Council for Educational Administration, Early Career Scholars Session, Denver, Colo., November 17, 2012.

Hall-Ellis, Sylvia D. *After the Great TS Reorganization: The Westminster Law Library.* Presentation delivered at the 137th Annual Conference, American Library Association, Anaheim, Calif., June 23, 2012.

Hall-Ellis, Sylvia D. *Conversations with Catalogers in the 21st Century.* A panel discussion sponsored by the ALCTS Competencies for a Career in Cataloging Interest Group, delivered at the 137th Annual Conference, American Library Association, Anaheim, Calif., June 22, 2012.

Hall-Ellis, Sylvia D., moderator. *Mid-Career Leaders Program.* A panel discussion sponsored by the ALA Committee on Diversity delivered at the 136th Annual Conference, American Library Association, New Orleans, La., June 26, 2011.

Hall-Ellis, Sylvia D., moderator. *Diversity Town Hall.* A community conversation sponsored by the ALA Committee on Diversity delivered at the 136th Annual Conference, American Library Association, New Orleans, La., June 24, 2011.

LaBarre, Kathryn, Sylvia D. Hall-Ellis, Karen Anderson, Rick Hasenyager, Christopher Cronin, and Penny Baker. *Briefings from RDA Test Participants.* A panel discussion delivered at the Midwinter Conference, American Library Association, San Diego, Calif., January 7, 2011.

Miksa, Shawne, Marjorie Bloss, and Sylvia D. Hall-Ellis. *Educating the Next Generation of Catalogers: Teaching RDA.* A panel discussion delivered at the 97th Annual Conference, Association for Library and Information Science Education, San Diego, Calif., January 7, 2011.

Hall-Ellis, Sylvia D., Robert Maxwell, John Hostage, and George Prager. *RDA Panel: What Cataloging Managers Need to Know.* Presentation delivered at the 103rd Annual Conference, American Association of Law Librarians, Denver, Colo., July 12, 2010.

Hall-Ellis, Sylvia D. and Stacey L. Bowers. *Catalogers in the RDA Environment: Skill Sets, Expectations and Challenges.* Presentation delivered at the 103rd Annual Conference, American Association of Law Librarians, Denver, Colo., July 11, 2010.

Hall-Ellis, Sylvia D. *Comfortable in Your Cataloging and Metadata Specialist Skin? Or, So You Want to Hire a Cataloger.* Presentation delivered to the ALCTS Research Group at the 134th Annual Conference, American Library Association, Chicago, Ill., July 11, 2009.

Perez, Megan, Sylvia D. Hall-Ellis, and Denise Anthony. *From Novice to Expert: Collaboration for Succession Planning.* A "hot topic" presentation delivered at the 14th ACRL Conference, Seattle, Wash., March 13, 2009.

Hall-Ellis, Sylvia D. *Cataloging in the RDA Environment: Skill Sets, Expectations and Challenges.* Presentation delivered to the ALCTS Research and Publications Committee at the Midwinter Conference, American Library Association, Denver, Colo., January 24, 2009.

Hall-Ellis, Sylvia D. *LIS Cataloging Education for the 21st Century: Expectations and Challenges.* A panel discussion held at the 95th Annual Conference, Association for Library and Information Science Education, Denver, Colo., January 23, 2009.

Chu, Clara, Sylvia D. Hall-Ellis, and Mark Winston. *The Doctoral Degree & Building a Career.* A panel discussion delivered at the ALA Office of Diversity Spectrum Doctoral Fellows E.J. Josey Leadership Institute, Midwinter Conference, American Library Association, Denver, Colo., January 20, 2009.

Hall-Ellis, Sylvia D. and Robert O. Ellett, Jr. *Fundamentals of Cataloging Course: An Overview of the ALCTS Online Course.* Presentation delivered to the ALCTS Big Heads Group, 133rd Annual Conference, American Library Association, Anaheim, Calif., June 30, 2008.

Hall-Ellis, Sylvia D. *Employers' Expectations for Technical Services Librarians: What We Don't Know.* Presentation delivered to the ALCTS Research and Publications Committee Program, 133rd Annual Conference, American Library Association, Anaheim, Calif., June 28, 2008.

Hall-Ellis, Sylvia D., Virginia R. Maloney, and Mary Stansbury. *Institutional Responses to Engaged Scholarship: The Carnegie Foundation Engaged University Classification at Two Universities.* Presentation delivered to the 94th Annual Conference, Association for Library and Information Science Education, Philadelphia, Pa., January 11, 2008.

Hall-Ellis, Sylvia D. *Puzzles, Problems, and Predicaments.* Presentation delivered to the ALCTS Research Discussion Group, 132nd Annual Conference, American Library Association, Washington, D.C., June 23, 2007.

Hall-Ellis, Sylvia D. *Cataloging Education: A New Emphasis for the Library and Information Science Curriculum.* Presentation delivered to the ALCTS Pre-conference, 132nd Annual Conference, American Library Association, Washington, D.C., June 22, 2007. http://www.loc.gov/catdir/cpso/careercat.html

Ellett, Jr., Robert O. and Sylvia D. Hall-Ellis. *Copy Cataloging Done Smarter.* Presentation delivered to the International Conference on Interdisciplinary Information Sciences and Technologies (InSciT2006), October 25-28, 2006.

Hall-Ellis, Sylvia D. and Robert O. Ellett, Jr. *Cooperative Cataloging: Challenges and Opportunities for Defense Libraries.* Presentation delivered to the 1st Annual Conference of Defense Libraries, Spanish Ministry of Defense, Madrid, Spain, July 7, 2006.

Hall-Ellis, Sylvia D. *Cataloger Competencies: Do the Employers Require What the Professors Teach?* Presentation delivered to the ALCTS CCS Heads of Cataloging Discussion Group, 131st Annual Conference, American Library Association, New Orleans, La., June 26, 2006.

Grealy, Deborah S. and Sylvia D. Hall-Ellis. *From Research to Practice: The Scholarship of Teaching and Learning in LIS Education.* Presentation delivered to the at the 92nd Annual Conference, Association for Library and Information Science Education, San Antonio, Tex., January 18, 2006.

Hall-Ellis, Sylvia D. *Employers' Expectations for Entry-Level Catalogers: What Position Announcement Data Indicate.* Research paper delivered to the Technical Services Special Interests Group, 91st Annual Conference, Association for Library and Information Science Education, Boston, Mass., January 12, 2005. http://dlist.sir.arizona.edu/

Hall-Ellis, Sylvia D. *Common Errors in MARC Records Prepared by LIS Students: What Does It Mean?* Research paper delivered to the ALCTS CCS Cataloging Norms Discussion Group, Mid-Winter Conference, 90th American Library Association, San Diego, Calif., January 10, 2004.

Hall-Ellis, Sylvia D. *Visual Arts as Foundation for Successful Library Automation: The Rocky Mountain College of Art & Design Experience.* Paper delivered at the 6th Annual Conference of Higher Education, Charleston, S. C., 1993.

Hall, Sylvia D. *Design Elements for Bibliographic Databases: An Overview.* Paper delivered at the 14th Online National Conference, New York, 1983.

Invited Regional Conference Presentations

Hall-Ellis, Sylvia D., Hudson, Christopher D., Brittany Cronin, and Kathryn Michaels. "The Colorado Law Project: Meeting the Public's Need for Legal Information." Panel discussion delivered at the Mountain Plains Library Association Conference, Billings, Mont., April 9, 2011.

Grealy, Deborah S. and Sylvia D. Hall-Ellis. *Education for Information Professionals in New Mexico: Library & Information Science Graduate Education at the University of Denver.* Presentation delivered at the New Mexico Library Education Summit, Las Vegas, N.M., September 26, 2005.

Hall-Ellis, Sylvia D. *Public Library-School Library Partnerships.* Presentation delivered at the 3rd Annual Colorado Association of Libraries Conference with the Mountain Plains Library Association, Denver, Colo., October 22, 2004.

Hall-Ellis, Sylvia D. *Learn All You Can – Educational Partnership Opportunities for the Lewis and Clark Bicentennial Commemoration.* Paper delivered at the 3rd Annual Lewis and Clark Bicentennial Council National Planning Conference, Bismarck, N.D., April 26, 1998.

Invited State Conference Presentations

Grealy, Deborah S. and Sylvia D. Hall-Ellis. *Academic Library Leadership Changes: Using Succession Planning and Mentoring*. Presentation delivered at the Minnesota Library Education Conference, St. Cloud, Minn., October 10, 2013.

Hall-Ellis, Sylvia D., Merrie Valliant, and Melissa Powell. *RDA: What Is It and What Do You Need To Do With It At Your Library?* Presentation delivered at the Colorado Library Consortium Spring Conference, Ft. Morgan, Colo., April 26, 2013.

Hall-Ellis, Sylvia D. *Service Learning and the Library & Information Science Graduate Education at the University of Denver.* Presentation delivered at the 4th LEADS Scholars Orientation, Denver, Colo., August 5, 2009.

Hall-Ellis, Sylvia D. *Service Learning: Enhancement to Library & Information Science Graduate Education at the University of Denver.* Presentation delivered at the 3rd LEADS Scholars Orientation, Denver, Colo., June 2008.

Hall-Ellis, Sylvia D. *Law Librarianship: A Community Conversation.* Sponsored by the Colorado Association of Law Libraries. Paper delivered at the Colorado Supreme Court Library, Denver, Colo., May 14, 2008.

Hall-Ellis, Sylvia D. *Opportunities and Challenges in Law Librarianship: A Community Conversation.* Presentation delivered at the Sturm College of Law, Denver, Colo., November 7, 2007.

Ellis, Sylvia D. *Grant Writing Resources for Nursing Professionals.* Presentation delivered at the Presbyterian / St. Luke's Health One Medical Center 1st Annual Research Symposium, Denver, Colo., October 17, 2007.

Hall-Ellis, Sylvia D. *Project Homeless Connect 4 Event Evaluation – Insights and Lessons Learned.* Presentation delivered at the Homelessness Research Symposium: What is DU Doing about Homelessness in Denver, Denver, Colo., September 14, 2007.

Hall-Ellis, Sylvia D. *Service Learning and the Library & Information Science Graduate Education at the University of Denver.* Presentation delivered at the 2nd LEADS Scholars Orientation, Denver, Colo., August 10, 2007.

Hall-Ellis, Sylvia D. *Education for Information Professionals in a Digital Environment: Library & Information Science Graduate Education at the University of Denver.* Presentation delivered at the 15th Spring Mountains and Plains Parapros Conference, Denver, Colo., February 24, 2007.

Hall-Ellis, Sylvia D. *Public Library Service to Spanish-Speaking and Latino Residents in Denver: A Case Study.* Presentation delivered at the 4th Annual Colorado Association of Libraries Conference, Denver, Colo., November 10, 2005.

Hall-Ellis, Sylvia D. *Education for Information Professionals in a Digital Environment: Library & Information Science Graduate Education at the University of Denver.* Presentation delivered at the 14th Annual Mountains and Plains Parapros Conference, Aurora, Colo., July 29, 2005.

Hall-Ellis, Sylvia D. *Educational Opportunities: Library & Information Science Graduate Education at the University of Denver.* Presentation delivered at the 13th Annual Mountains and Plains Parapros Conference, Centennial, Colo., August 6, 2004.

Hall-Ellis, Sylvia D. *Library Education & Training: Focus on the West: An LIS Faculty Member's Personal Response*. Presentation delivered at the 1st Annual Colorado Association of Libraries Conference, Keystone, Colo., October 18, 2002.

Hall-Ellis, Sylvia D. *Grant Writing for School Librarians.* Presentation delivered at the 2002 Annual Colorado Education Media Association Conference, Colorado Springs, Colo., February 15, 2002.

Hall-Ellis, Sylvia D. *Grants – Opportunities for the Future.* Paper delivered at the Southeast Regional Accountability Annual Conference, Lamar, Colo., November 12, 1998.

Hall-Ellis, Sylvia D. *The Texas Library Connection and Interlibrary Loan: An Experiment in Resource Sharing.* Paper delivered at the Texas Computer Educators' Association Annual Conference, Austin, Tex., February 6, 1997.

Hall-Ellis, Sylvia D. *Finding Grant Sources on the Internet: A Guide for Librarians.* Paper delivered at the 2nd Annual Institute for School Library Personnel, Pharr-San Juan-Alamo North High School, Pharr, Tex., July 29, 1996**.**

Hall-Ellis, Sylvia D. *Mathematical and Logical Thinking: A Critical Intelligence.* Paper delivered at the 3rd Annual Paraprofessional Conference at the University of Texas - Pan American, Edinburg, Tex., March 8, 1996.

Hall-Ellis, Sylvia D. *Cataloging Trends and Issues: Update Session.* Paper delivered at the 1st Annual Institute for School Library Personnel, South Texas Community College, McAllen, Tex., July 19, 1995.

Hall-Ellis, Sylvia D. *Grant Writing: Tips and Encouragement for School Librarians.* Paper delivered at the 1st Annual Institute for School Library Personnel, South Texas Community College, McAllen, Tex., July 18 and 19, 1995.

Hall-Ellis, Sylvia D. *How to Become an Expert Grant Writer.* Paper delivered at the 3rd Annual High School Principals' Academy, South Padre Island, Port Isabel, Tex., June 19, 1995.

Texas Library Study: Results from Regions I and II. Paper delivered at the 3rd Annual Technology Conference, Texas A&M University, College Station, Tex., November 18, 1994.

Hall-Ellis, Sylvia D. *Academic Achievement and Middle School Students.* Paper delivered at the 8th Annual Young Adult Conference, Sam Houston State University, Huntsville, Tex., November 5, 1994.

Hall-Ellis, Sylvia D. *Multimedia Resources for Library Leaders.* Paper delivered at the Institute for Librarians in A Multicultural Environment, Sam Houston State University, Huntsville, Tex., June 10, 1994.

Hall-Ellis, Sylvia D. *Finding the Resource: Empowering the User, or, the Case for Curriculum Based Subject Access to Learning Resource Center Collections.* Paper delivered at the 81st Annual Texas Library Association Conference, Corpus Christi, Tex., April 12-16, 1994.

Hall-Ellis, Sylvia D. and William H. Pichette. *Sam Houston State University Makes Use of OCLC/AMIGOS Collection Analysis CD.* Paper delivered at the 81st Annual Texas Library Association Conference, Corpus Christi, Tex., April 12-16, 1994.

Hall, Sylvia D. *Funding and Library Development in Pennsylvania: A Symbiotic Relationship.* Paper delivered at the Annual Graduate Student Colloquia, University of Pittsburgh, School of Library and Information Science, 1982.

Hall, Sylvia D. *Leadership for Public Library Trustees.* Paper delivered for the Trustees Division, Pennsylvania Library Association Annual Conference, Lancaster, Penn., 1981.

Seminar and Professional Development Presentations

Taylor, Meredith, and Sylvia D. Hall-Ellis. *Talent Management and Succession Planning.* ALCTS eForum, held March 22, 2017.

Hirsh, Sandra, Heather O'Brien, Michelle Holschuh Simmons, Michael Krasulski, and Sylvia D. Hall-Ellis. *Information Services Today: An Introduction. Part 3: Information Services: Roles in the Digital Age*. Rowan and Littlefield in partnership with Library Journal webinar, recorded February 5, 2015.

Hall-Ellis, Sylvia D. and Jennifer Sweda. *Copy Cataloging in an RDA Environment.* ALCTS eForum, held May 14 and 15, 2013.

Hall-Ellis, Sylvia D. *Law Librarianship: A Community Conversation.* Sponsored by the Colorado Association of Law Libraries, presented at the Colorado Supreme Court Library, Denver, Colo., May 14, 2008.

Hall-Ellis, Sylvia D. and Beatrice Z. Gerrish. *Reading and Libraries: Recent Research in Reading.* Presentation at the Ricks Center for Gifted Education, Denver, Colo., March 4, 2008.

Hall-Ellis, Sylvia D. *Cataloger Competencies: Do the Employers Require What the Professors Teach?* Presentation for the School of Library and Information Science, San José State University, February 12, 2008.

Hall-Ellis, Sylvia D. and Robert O. Ellett, Jr. *Cooperative Cataloging: Rules, Tools, and Conventions for Building a Multi-institutional Catalog.* Sponsored for the Spanish Ministry of Defense, Madrid, Spain, July 10, 2006.

Hall-Ellis, Sylvia D. *Cash for Kids: Grant Writing Opportunities for Youth Services Librarians.* Sponsored by the Colorado Young Adult Librarians; presented at Bemis Memorial Library, Littleton, Colo., November 13, 2002.

Hall-Ellis, Sylvia D. *MARC Records and Authority Control: Planning for Bibliographic Database Migration.* Sponsored and held at the Douglas County Public Library, Castle Rock, Colo., May 28, 2002.

Grant Writing: A Refresher for Librarians. Sponsored by Library and Information Science Program, College of Education, University of Denver; presented at University Center at Chaparral, August 12, 2000.

Hall-Ellis, Sylvia D. *Shaking the Money Tree – Basic Grant Writing for Colorado Educators.* Sponsored by the Office of Educational Telecommunications of the Colorado Department of Education.
Pikes Peak Community College, Colorado Springs, Colo., November 16, 1998.

Pueblo School District 60, Pueblo, Colo., November 12, 1998.
University of Northern Colorado, Greeley, Colo., November 10, 1998.
United Technology Educational Partnership, Grand Junction, Colo., November 9, 1998.

Hall-Ellis, Sylvia D. *Cataloging Multimedia, Kits, Globes and Map Materials in USMARC.* Sponsored and hosted by Region One Education Service Center, Edinburg, Tex., April 24, 1997 and December 12, 1996.

Hall-Ellis, Sylvia D. *New Standards for School Library Media Centers.* Sponsored and hosted by Region One Education Service Center, Edinburg, Tex., April 15, 1997.

Hall-Ellis, Sylvia D. *The School Library Media Specialist in the 21st Century: Visions for the Future.* Sponsored and hosted by Pharr-San Juan-Alamo Independent School District, Pharr, Tex., April 4, 1997.

Hall-Ellis, Sylvia D. *Cataloging Sound Recordings and Audio Materials in USMARC.* Sponsored and hosted by Region One Education Service Center, Edinburg, Tex., March 20, 1997 and November 21, 1996.

Hall-Ellis, Sylvia D. *Evaluating and Selecting CD-ROMS for School Library Media Collections.* Sponsored and hosted by Region One Education Service Center, Edinburg, Tex., March 18, 1997.

Hall-Ellis, Sylvia D. *Cataloging Audiovisual Materials in USMARC.* Sponsored and hosted by Region One Education Service Center, Edinburg, Tex., February 27, 1997, November 7, 1996 and October 24, 1996.

Hall-Ellis, Sylvia D. *Introduction to Dialog: Basic Searching Strategies.* Sponsored and hosted by Region One Education Service Center, Edinburg, Tex., February 14, 1997.

Hall-Ellis, Sylvia D. *Cataloging Books in USMARC.* Sponsored and hosted by Region One Education Service Center, Edinburg, Tex., January 30, 1997, October 10, 1996, September 26, 1996 and August 8, 1996.

Hall-Ellis, Sylvia D. *Advanced Internet Searching Techniques for Librarians.* Sponsored and hosted by Region One Education Service Center, Edinburg, Tex., January 21, 1997.

Hall-Ellis, Sylvia D. *Texas Library Connection Full-Text Searching.* Sponsored and hosted by Region One Education Service Center, Edinburg, Tex., December 13, 1996 and October 25, 1996.

Hall-Ellis, Sylvia D. *Developing Evaluation Strategies for Grants and Proposals.* Sponsored and hosted by Region One Education Service Center, Edinburg, Tex., December 10, 1996.

Hall-Ellis, Sylvia D. *Developing Needs Assessment for Grants and Proposals.* Sponsored and hosted by Region One Education Service Center, Edinburg, Tex., November 12, 1996.

Hall-Ellis, Sylvia D. *Texas Library Connection Union Catalog Searching.* Sponsored and hosted by Region One Education Service Center, Edinburg, Tex., November 8, 1996 and September 6, 1996.

Hall-Ellis, Sylvia D. *Grant Resources on the Internet.* Sponsored and hosted by Region One Education Service Center, Edinburg, Tex., October 23, 1996.

Hall-Ellis, Sylvia D. *Preparing a Response to the Telecommunications Infrastructure Fund Board: Needs Assessment, Professional Development Framework, and Evaluation Strategies.* Sponsored and hosted by Region One Education Service Center, Edinburg, Tex., October 16, 1996.

Hall-Ellis, Sylvia D. *Texas Library Connection: Building the Districtwide Bibliographic Database.* Sponsored and hosted by Mercedes Independent School District, Mercedes, Tex., September 13, 1996 and August 8, 1996. Sponsored and hosted by Los Fresnos Consolidated Independent School District, Los Fresnos, Tex., August 12, 1996.

Hall-Ellis, Sylvia D. *School-to-Work and Special Education: An Inclusive Partnership for Success.* Sponsored and hosted by the Office of Special Education, Region One Education Service Center, Edinburg, Tex., September 11, 1996.

Hall-Ellis, Sylvia D. *Telecommunications Infrastructure Fund Board: An Overview of Funding for Secondary Schools.* Sponsored and hosted by Region One Education Service Center, Edinburg, Tex., August 31, 1996.

Hall-Ellis, Sylvia D. *Cataloging Books, Multimedia, and Realia in USMARC.* Sponsored and hosted by Edinburg Consolidated Independent School District, Edinburg, Tex., August 6, 1996.

Hall-Ellis, Sylvia D. *Internet Resources for Grant Writers.* Sponsored and hosted by Region One Education Service Center, Edinburg, Tex., April 20, 1996.

Hall-Ellis, Sylvia D. *Enhanced Grant Writing Skills for Mathematics Educators: Writing Skills for Campus Teams.* Sponsored and hosted by the Office of General Education, Region One Education Service Center, Edinburg, Tex., March 22, 1996.

Hall-Ellis, Sylvia D. *Internet Resources for Grant Writers.* Sponsored and hosted by the College of Education and Applied Science, Sam Houston State University, Huntsville, Tex., March 9, 1996.

Hall-Ellis, Sylvia D. *Grant Writing for Mathematics Educators: A Development Process for Campus Teams.* Sponsored and hosted by the Office of General Education, Region One Education Service Center, Edinburg, Tex., March 4, 1996.

Hall-Ellis, Sylvia D. *Shaking the Money Tree: Preparing Successful Technology Grant Applications.* Sponsored and hosted by the Office of Technology and Media Services, Region One Education Service Center, Edinburg, Tex., February 29, 1996 and April 29, 1996.

Hall-Ellis, Sylvia D. *District-wide Technology Planning: Technical Assistance for the Texas Education Agency Initiative.* Sponsored and hosted by the Office of Technology and Media, Region One Education Service Center, Edinburg, Tex., February 2, 1996.

Hall-Ellis, Sylvia D. *Enhanced Grant Writing Skills.* Sponsored and hosted by Pharr-San Juan-Alamo Independent School District, Pharr, Tex., January 27, 1996.

Hall-Ellis, Sylvia D. *United States Copyright Act of 1976, Video Transmissions, Computer Software and the Internet.* Sponsored and hosted by the Office of Technology and Media, Region One Education Service Center, Edinburg, Tex., January 24, 1996.

Hall-Ellis, Sylvia D. *The Grant Writing Development Process.* Sponsored and hosted by Pharr-San Juan-Alamo Independent School District, Pharr, Tex., January 20, 1996.

Hall-Ellis, Sylvia D. *MARC Cataloging of Materials for Library Media Centers.* Sponsored and hosted by the Office of Media Services, Region One Education Service Center for the Donna Independent School District, Donna, Tex., August 17, 1995.

Hall-Ellis, Sylvia D. *Classification.* Sponsored by AJ Seminars, Rockville, Maryland; presented at University Hilton Hotel, Houston, Tex., May 10, 1995.

Hall-Ellis, Sylvia D. *Library Technical Services.* Sponsored by AJ Seminars, Rockville, Maryland; presented at University Hilton Hotel, Houston, Tex., April 26, 1995.

Hall-Ellis, Sylvia D. *Grant Writing: An Introduction for Public School Administrators.* Sponsored and hosted by the Office of Administrative Services, Region One Education Service Center, Edinburg, Tex., April 19, 1995.

Hall-Ellis, Sylvia D. *The School Library Media Specialist in the 21st Century: Visions for the Future.* Sponsored and hosted by the United Independent School District, Laredo, Tex., March 31, 1995.

Hall-Ellis, Sylvia D. *Using USMARC.* Sponsored by AJ Seminars, Rockville, Maryland; presented at University Hilton Hotel, Houston, Tex., March 29, 1995.

Hall-Ellis, Sylvia D. *Library Media Center Policies and Guidelines: How to Prepare for School Board Adoption.* Sponsored and hosted by the Office of Technology and Media Services, La Joya Independent School District, La Joya, Tex., March 10, 1995.

Hall-Ellis, Sylvia D. *Developing District-wide Policies and Guidelines for Library Media Centers.* Sponsored and hosted by the Office of Technology and Media Services, La Joya Independent School District, La Joya, Tex., January 10, 1995.

Hall-Ellis, Sylvia D. *MARC Cataloging of Audiovisual Materials for Library Media Centers.* Sponsored and hosted by the Office of Library Media and Technology Services, Cypress-Fairbanks Independent School District, Houston, Tex., December 1, 1994.

Hall-Ellis, Sylvia D. *The School Library Media Specialist in the 21st Century: Visions for the Future.* Sponsored and hosted by United Independent School District, Laredo, Tex., October 14, 1994.

Hall-Ellis, Sylvia D. *The School Library Media Specialist in the 21st Century: Visions for the Future.* Sponsored and hosted by the Laredo Independent School District, Laredo, Tex., October 7, 1994.

Hall-Ellis, Sylvia D. *MARC Cataloging for Library Media Centers.* Sponsored by the Office of Library Media and Technology Services, Cypress-Fairbanks Independent School District, Houston, Tex., October 5, 1994.

Hall-Ellis, Sylvia D. *Jump to the Head of the Class: Undergraduate Library Resources Available at Sam Houston State University.* Sponsored by the Office of the Associate Vice President for Student Services, Sam Houston State University, Huntsville, Tex., October 4, 1994.

Hall-Ellis, Sylvia D. *CD-ROMs - 1994's Newest and the Best for Secondary Level Media Centers.* Sponsored and hosted by Clear Lake Independent School District, Houston, Tex., June 3, 1994.

Hall-Ellis, Sylvia D. *Introduction to Classification.* Sponsored by AJ Seminars, Rockville, Maryland; presented at Holiday Inn, Market Center, Dallas, Tex., May 18, 1994.

Hall-Ellis, Sylvia D. *Basic Descriptive Cataloging.* Sponsored by AJ Seminars, Rockville, Maryland; presented at University Hilton Hotel, Houston, Tex., May 4, 1994.

Hall-Ellis, Sylvia D. *Shaking the Money Tree - Part II: Writing Successful Grant Applications.* Sponsored by Donna Independent School District, Donna, Texas, and Region One Education Service Center Edinburg, Texas; presented at South Texas Community College Library, McAllen, Tex., April 29, 1994.

Hall-Ellis, Sylvia D. *Using MARC.* Sponsored by AJ Seminars, Rockville, Maryland; presented at Holiday Inn, Market Center, Dallas, Tex., April 6, 1994.

Hall-Ellis, Sylvia D. *Automated Authority Control.* Sponsored by AJ Seminars, Rockville, Maryland; presented at University Hilton Hotel, Houston, Tex., March 23, 1994.

Hall-Ellis, Sylvia D. *Automating the District School Library Media Centers: Choices and Opportunities.* Sponsored and hosted by the Office of Technology and Library Media Services, Fort Bend Independent School District, Sugar Land, Tex., March 4, 1994.

Hall-Ellis, Sylvia D. *Shaking the Money Tree - Part I: Preparing Successful Grant Applications.* Sponsored and hosted by the Office of Library Media Services, Donna Independent School District, Donna, Tex., February 4, 1994.

GRADUATE COURSES TAUGHT

San José State University, School of Library and Information Science

INFO 249 – Advanced Cataloging and Classification (Fall 2015, 2016; Summer 2016)
INFO 287 – Special Topics in Cataloging and Classification (Spring 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024; Fall 2020, 2021, 2022, 2023, 2024)
LIBR 248 – Beginning Cataloging and Classification (Summer 2002, 2003, 2004, 2005, 2006)
LIBR 249 – Advanced Cataloging and Classification (Summer 2003; Fall 2014; Summer 2015)

University of Denver, University College

Grant Writing Certificate Seminar for Non-Profit Organizations (Fall 2020, 2021; Spring 2021)

University of Denver, Morgridge College of Education HED

5991 – Grant Writing in Higher Education (Spring 2011)
LIS 4010 – Organization of Information (Fall 2002-2009; Winter 2005; Spring 2004-2006)
LIS 4020 – Professional Principles and Ethics (Summer 2000)
LIS 4040 – Management of Libraries and Information Centers (Fall 2010; Spring 2003, 2009 (DS); Winter 2005)
LIS 4070 – Cataloging and Classification (Winter 2008, 2009, 2010, 2011, 2012; Fall 2009 (DS)) LIS
4321 – Collection Management (Spring 2005)
LIS 4326 – LIS Research (Winter 2009 (DS); Spring 2009 (DS))
LIS 4350 – Adult Materials and Services (Summer 2006, 2009)
LIS 4379 – Social Sciences Resources (Spring 2009)
LIS 4400 – Cataloging and Classification (Spring 2000, 2001; Winter 2002-2009; Summer 2005, 2006 – course renumbered LIS 4070, September 2007)
LIS 4401 – Descriptive Cataloging (Winter 2001; Spring 2002, 2003, 2006-2009; Summer 2005)
LIS 4402 – Subject Cataloging (Spring 2001, 2009; Summer 2005, 2006, 2007, 2008)
LIS 4403 – Classification Schemes (Fall 2007, 2008, 2009 (DS)) LIS
LIS 4405 – Authority Control (Winter 2009)
LIS 4510 – Materials and Services for Children (Winter 2004; Summer 2005)
LIS 4620 – Grant Writing and Fundraising (Summer 2000, 2002, 2004, 2010; Winter 2006; Fall 2006-2009)
LIS 4700 – Seminar in Technical Services (Fall 2001)
LIS 4700 – Seminar in Public Libraries (Summer 2002)
LIS 4804 – Management of Electronic Records (Spring 2004; Fall 2005)
LIS 4902 – Capstone Projects (Winter 2003, Spring 2008, 2009, 2011)
LIS 4910 – Independent Study (every quarter Winter 2000 through Spring 2011)
LIS 4920 – Service Learning (every quarter Summer 2004 through Spring 2011)
RMS 4954 – Grant Writing (Summer 2013, 2014)
RMS 4959 – Content Analysis Methodology (Spring 2015)
QRM 4978 – Grant Writing (Summer 2011, 2012)

Rutgers University, School of Communication and Information

SC&I 522 – Cataloging and Classification (Summer 2013)

University of Arizona, College of Behavioral and Social Sciences

LIS 602 – Cataloging and Classification (Summer 1995)
LIS 612 – Advanced Online Search and Retrieval (Summer 1995)

Sam Houston State University, College of Education & Applied Science

LIS 532 - Cataloging and Classification (Fall 1993, 1994, 1995)
LIS 563 - Advanced Cataloging and Classification (Summer 1994)
LIS 567 - Research Methods (Spring 1994, Spring 1995)
LIS 591 - Educational Technology (Spring 1994, 1995)
LIS 596 - Networking and Computer Technologies in Education (Fall 1993, Summer 1994, Fall 1995)

Dissertations at the University of Denver

Bowers, Stacey L. *Library Anxiety of Law School Students: A Study Utilizing the Multidimensional Library Anxiety Scale.* Chair, May 5, 2010.

Fattor, Melissa M. *Student Engagement Differences by Ethnicity and Scale for Ninth Grade Students.* Chair, November 1, 2010.

Fulton, Roseanne. *A Case Study of Culturally Responsive Teaching in Middle School Mathematics.* Kent Seidel, Chair, June 18, 2009, Outside Chair.

Grealy, Deborah S. *Tribes and Territories in Library and Information Studies Education.* Bruce Uhrmacher, Chair, June 10, 2008, Committee Member.

McCord, J. Michael. *Developing a Standard of Care for Educational Malpractice.* Chair, April 15, 2011.

Priebe, Sarah J. *Distinguishing Effects of Domain and General Knowledge on Passage Fluency and Comprehension.* Jan Keenan, Chair. July 21, 2011, Outside Chair.

Snyder-Mondragon, Sandra M. *Institutional Factors that Impact the Retention of Graduate Students of Color in Schools of Library and Information Science: A Metaregression of Accredited Library School Statistics on Student Retention and Graduation Rates.* Kathy Green, Chair, July 24, 2009, Committee Member.

Taylor, Karen Pickles. *Effective Teaching.* Elinor Katz, Chair, July 15, 2009, Outside Chair.

Thompson, Jennifer. *Distinguishing a Western Women's College: A History of the Curriculum and Student Experience at Colorado Women's College.* Edith W. King, Chair, July 16, 2010, Committee Member.

Walker, Emelda. *Influence of Organizational Factors on Job Satisfaction of Disability Service Providers at Postsecondary Institutions.* Chair, April 29, 2010.

Dissertation Proposals at the University of Denver

Bowers, Stacey L. *Library Anxiety of Law School Students: A Study Utilizing the Multidimensional Library Anxiety Scale.* Chair, November 5, 2009.

McCord, J. Michael. *Developing a Standard of Care for Educational Malpractice.* Edith W. King, Chair. April 23, 2010.

Thompson, Jennifer. *History of Colorado Women's College.* Edith W. King, Chair, October 30, 2008. Committee Member.

Walker, Emelda. *Influence of Organizational Factors on Job Satisfaction of Disability Service Providers at Postsecondary Institutions.* Chair, July 21, 2009.

Dissertations at Other Institutions

Rodríguez-Mori, Howard. *The Information Behavior of Puerto Rican Immigrants to Central Florida, 2003-2009: Grounded Analysis of Six Case Studies Use of Social Networks during the Migration Process.* Kathleen Burnett, Chair, April 10, 2009, Florida State University, Committee Member.

Schwartz, Brian *More than a Look-up Skill: Medical Information Literacy Education in Osteopathic Medical Schools.* D. Mirah Dow, Chair, July 18, 2017. Emporia State University, Committee Member.

Snow, Karen. *A Study of the Perception of Cataloging Quality among Catalogers.* Shawne D. Miksa, Chair, August 1, 2011. University of North Texas, Committee Member.

Dissertation Proposals at Other Institutions

Schwartz, Brian *More than a Look-up Skill: Medical Information Literacy Education in Osteopathic Medical Schools.* D. Mirah Dow, Chair, December 4, 2015. Emporia State University, Committee Member.

Snow, Karen. *A Study of the Perception of Cataloging Quality among Catalogers.* Shawne D. Miksa, Chair, May 11, 2010. University of North Texas, Committee Member.

Master's Thesis at the University of Denver

Hemingson, Jeff. *Recital Paper.* Lamont School of Music, February 2010, Outside Chair.

Capstones at the University of Denver

Anthony, Alisa. *Correlation of Library and Information Science Program outcomes and Vacant Position Qualifications Listed on the Colorado State Library Jobline by Employers During the Period September 1, 2000 through August 31, 2002.* Chair, Winter Quarter, 2003.

Borden, Donna M. *Improving Emergency Communications Systems: Is a Radio Communications Network the Answer?* Fall Quarter, 2014.

Bowden, Heather L.M. *Exploring Biological Models for Long-term Data Preservation.* Chair, Spring Quarter, 2008.

Casenada, Cassandra Y. *Challenges to the Recruitment, Education, and Retention of Librarians of Color*. Chair, Spring Quarter, 2008.

Chang, Jennifer C. *Legal Research Practice and Preference: A Law Firm Perspective.* Chair, Spring Quarter 2011.

Ellis, Megan S. Fitzgerald. *Design of a Public Library Adult Volunteer Recruitment Program and Training Curriculum.* Chair, Winter Quarter, 2003.

Kircher, Kathy. *Development of a Library Pathfinder for Exobiology and Posting it on the Internet.* Chair, Winter Quarter, 2003.

Melhado, Loretta. *Design of St. John's Episcopal Church Library.* Chair, Spring Quarter, 2008.

Radcliff, Kathy. *Original Cataloging of Archival materials in the HERS Collection in Penrose Library.* Chair, Winter Quarter, 2003.

Sass, Carol Ann. *ACT Periodical Index: Access to Catholic Thinking Periodical Index: Web Index to Select Catholic Periodicals.* Spring Quarter 2000.

Stone, Sergio D. *Conducting Community Analysis for the Bemis Public Library (Littleton, Colorado) Using 2002 U.S. Census Data and the Online Outcome-Based Evaluation Toolkit.* Chair, Winter Quarter, 2003.

Tureson, Tamara. *Design and Use of an Information Audit Tool for Use in a Law Library.* Chair, Winter Quarter, 2003.

Tweed, Beth. *Evaluation of Email Reference Service in a Consumer Health Library Environment.* Chair, Winter Quarter, 2003.

GRANTS AND CONTRACTS

Student Learning in Agriculture STEM through Teacher Professional Development. Research team: Stanton Gartin (PI) and Cyndi Hofmeister, Northeast Junior College; Jeff Cash, Cheryl Sánchez, Anne-Marie Crampton, Lamar Community College; Suzanna Spears, Morgan Community College; Jack Wiley, Kerry Gabrielson, Trinidad State Junior College; Michael J. Miller, Colorado State University; Michael Womochil (Co-PI), Casey Sacks, and Sylvia D. Hall-Ellis, Colorado Community College System. U.S. Department of Agriculture, Agriculture and Food Research Initiative, Food, Agriculture, Natural Resources and Human Sciences Education and Literacy Initiative, $404,460 (2017-2020)

Leading and Achieving: the Colorado Agriculture Regional Consortium. Research team: Jack Wiley (PI), Kerry Gabrielson, Trinidad State Junior College; Jeff Cash (PI), Cheryl Sánchez, Anne-Marie Crampton, Lamar Community College; Suzanna Spears, Morgan Community College; Cyndi Hofmeister, Northeast Junior College; Michael Womochil (Co-PI), Casey Sacks, and Sylvia D. Hall-Ellis, Colorado Community College System. U.S. Department of Agriculture, Hispanic Serving Institutions Education Grants Program, $504,414 (2017-2020)

Cyber Prep Program Planning Grant. Research team: Debbie Sagen (PI), Brenda Lauer, Pikes Peak Community College; Gretchen Martin, Koiosa Insights; and, Sylvia D. Hall-Ellis, Colorado Community College System. U.S. Department of Commerce, Regional Alliances and Multi-stakeholder Partnerships to Stimulate (RAMPS) Cybersecurity Education and Workforce Development, $199,681 (2016-2018)

Career and Technical Education in Colorado: Pathways to Education and Employment. Research team: Heather McKay (PI), Rutgers University; Sarah Heath, Casey Sacks, Sylvia D. Hall-Ellis, Colorado Community College System. U.S. Department of Education, Institute of Education Sciences, $1,400,000 (2017-2021)

Pre-Alliance Planning Grant Colorado Community College Alliance. Research team: Victor Vialpondo (PI) and Janel Highfill, Community College of Aurora; Heidi Loshbaugh (Co-PI), Community College of Denver; Rick Reeves, Bill McGreevy, Liz Cox, and Kristin Aslin, Red Rocks Community College; Cathy Pellish, Front Range Community College; Samuel DeVries, Arapahoe Community College; Sylvia D. Hall-Ellis, Colorado Community College System. National Science Foundation, Louis Stokes Alliance for Minority Participation (LSAMP), $86,817 (2016-2017)

Towards Scalable Differentiated Instruction Using Technology-enabled, Competency-based, Dynamic Scaffolding. Research team: Karen Wilcox (PI) and Vijay Kumar, Center for Computational Engineering, Massachusetts Institute of Technology; Flora McMartin, Broad-based Knowledge; Quinsigamond Community College; and, Casey Sacks, and Sylvia D. Hall-Ellis, Colorado Community College System. U.S. Department of Education, First in the World Developmental Grant, $2,891,882 (2015-2019)

Colorado Strategic Partnerships Emergency Grant. Research team: Elise Lowe-Vaughn (PI), Amy Hodson, Celia Hardin, Barbara McBride, James Newby, Christopher Dewhurst, Nina Holland, Kate Anderson, MaryAnn Roe, Chrystalynn Chrystalynn, Elaine Edon, Mona Barnes, Tom Morgan, Rob Hanni, and Marie Valenzuela, Colorado Department of Labor and Employment; Steve Anton, Joelle Brouner, and, Katie Griego, Colorado Department of Human Services; Rebecca Holmes, Judith Martinez, and Jennifer Jirous, Colorado Department of Education; Emily Templin Lesh, Colorado Workforce Development Council; Cory Everett, Colorado Department of Regulatory Agencies; and, Casey Sacks and Sylvia D. Hall-Ellis, Colorado Community College System. U.S. Department of Labor, Strategic Partnerships Emergency Grant, $5,000,000 (2015-2017)

CAEL Jump Start Program: Competency-Based Education. Research team: Jerry Migler (PI), Casey Sacks, Debra Cohn, Thomas Hartman, and Sylvia D. Hall-Ellis, Colorado Community College System; Matt Jamison, Front Range Community College; Mike Coste, Red Rocks Community College; Amanda Corum, Pueblo Community College; Janet Colvin, Pikes Peak Community College; and, MaryAnn Matheny, Community College of Denver. Council for Adult and Experiential Learning, $15,000 (2015)

Summit on the Redesign of Developmental Education. Research team: Jerry Migler (PI), Casey Sacks, and Sylvia D. Hall-Ellis, Colorado Community College System; Chip Nava, Pueblo Community College; Kim Moultney, Arapahoe Community College; Debbie Ulibarri, Trinidad State Junior College; and, Kris Bernard, Front Range Community College. American Association of Community Colleges, $15,000 (2015-2016)

Equity in Excellence at Colorado Community Colleges. Research team: Keith Howard (PI) and Sylvia D. Hall-Ellis, Colorado Community College System; Estela Mata Bensimon, Center for Urban Education, University of Southern California; and Kerry Gabrielson, Trinidad State Junior College. Colorado Department of Higher Education, Colorado Opportunity Scholarship Program, $150,000 (2015-2016)

MBA High School of Business in Colorado. Research team: Laurie Urich (PI) and Sylvia D. Hall-Ellis, Colorado Community College System; Rudolph Sumpter and Beatrice Gerrish, Boulder Valley Schools; Keith Curry Lance, RSL Research Group. Colorado Department of Higher Education, Colorado Opportunity Scholarship Program, $501,295 (2015-2016)

Fullbridge Program in Colorado. Research team: Keith Howard (PI) and Sylvia D. Hall-Ellis, Colorado Community College System; Suzanna Spears, Fort Morgan Community College; and, Cheryl Sánchez and Anne-Marie Compton, Lamar Community College. Colorado Department of Higher Education, Colorado Opportunity Scholarship Program, $300,000 (2015-2017)

Colorado Community College System Alternative Credit Program. Research team: Jerry Migler (PI), Keith Howard, and Sylvia D. Hall-Ellis, Colorado Community College System. American Council on Education, $13,000 (2015)

Internationalization in Higher Education. Researcher: Samuel D. Museus. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Office of Internationalization, $8,000 (2014-2015)

International Perspectives on Bilingual Education. Researcher: Sharolyn Pollard-Durodola. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Office of Internationalization, $3,700 (2014-2015)

Cultivating Culturally Relevant and Responsive Curriculum and Pedagogy in College. Researcher: Samuel Museus. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, iRise Grant, $5,000 (2014-2015)

Project EMERGE (Educational Model for Evaluation and Replicability in Gifted Environments). Research team: Norma Hafenstein (PI) and Bruce Uhrmacher. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Lynde and Harry Bradley Foundation, $235,000 (2014-2015)

Collecting Asian American Refugee Stories. Researcher: Samuel Museus. Technical reviewer for MCE: Sylvia D. Hall-Ellis. American Educational Research Association, Research Grant, $5,000 (2014-2015)

Developing Expertise in Teaching K-5 Mathematics. Research team: Julie Sarama (PI) and Douglas H. Clements (Co-PI), in partnership with the School of Education at the University of Michigan. Technical reviewer for MCE: Sylvia D. Hall-Ellis. National Science Foundation, $130,344 (2013-2015)

Investigation of the Long-Term Outcomes for Special Education Students. Researcher: Antonio Olmos-Gallos. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Jefferson County School District, Office of Assessment, $40,000 (2014)

Refugee Community Collaboration. Researcher: Vicki Tomlin (PI) in partnership with the African Community Center and Jewish Family Service. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Center for Community Engagement and Service Learning, $14,854 (2014-2015)

Access to Mathematics for All. Research team: Richard S. Kitchen (PI), Nicole M. Russell (Co-PI), and Terrence Blackman (Co-PI), Curriculum Studies and Teaching Program, Morgridge College of Education; Álvaro Árias (Co-PI, Department of Mathematics); and, James Gray (Co-PI), Department of Mathematics, Community College of Aurora. Technical reviewer for MCE: Sylvia D. Hall-Ellis. National Science Foundation, The Robert Noyce Scholarship Program, Capacity Building Project, $349,926 (2014-2016)

Cognitive Test Battery for Intellectual Disabilities. Research team: Karen Riley (PI), Lyndsay Agans, Jessica Lerner, and Karin Dittrick-Nathan in partnership with David Hessl (PI), The MIND Institute at the University of California – Davis, and Elizabeth Berry-Kravis, Rush University Medical Center. Technical reviewer for MCE: Sylvia D. Hall-Ellis. National Institutes of Health, Outcome Measures for Use in Treatment Trials for Individuals with Intellectual and Developmental Disabilities (R01), $2,499,996 ($588,672 at DU) (2014- 2019)

Broadening Participation in Engineering among Women and Latino/as: A Longitudinal, Multi-Site Study. Researcher: Patton Garriott (PI) in partnership with the University of North Dakota and the University of Missouri. Technical reviewer for MCE: Sylvia D. Hall-Ellis. National Science Foundation, HER Core Research, $677,390 ($69,992 at DU) (2014-2019)

Designing a Teacher Evaluation System to Improve Teacher Effectiveness for Culturally and Linguistically Diverse Learners. Research team: María del Carmen Sálazar (PI), Jessica Lerner, and Kathy Green. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Professional Research Opportunities for Faculty, $29,988 (2014-2016)

Developing a College-Going Culture in Latina/O Families: Exploring the Influence of Funds of Knowledge on Family Outreach Programs. Researcher: Judy Marquez Kiyama. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Professional Research Opportunities for Faculty, $18,720 (2014-2016)

Assessment of Quality of Life in Neutral Implantation Surgery for the Treatment of Parkinson's Disease. Researcher: Cynthia McRae. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Office of Internationalization, $3,967 (2014-2015)

Pura Vida: Cloud Forest, Curriculum and Cross-Cultural Study. Research team: Norma Hafenstein (PI) and Bruce Uhrmacher (Co-PI). Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Office of Internationalization, $8,000 (2014-2015)

Online Course Development for Curriculum and Instruction. Researcher: Ruth Chao. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Office of Teaching and Learning, $3,000 (2014)

Online Course Development for Curriculum and Instruction. Researcher: María del Carmen Sálazar. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Office of Teaching and Learning, $3,000 (2014)

Online Course Development for Curriculum and Instruction. Researcher: Jessica Lerner. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Office of Teaching and Learning, $3,000 (2014)

Online Course Development for Curriculum and Instruction. Researcher: Duan Zhang. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Office of Teaching and Learning, $3,000 (2014)

The Mathematics Education of African Americans, 1866 – 1954. Researcher: Nicole M. Russell. Technical reviewer for MCE: Sylvia D. Hall-Ellis. National Academy of Education, Spencer Foundation Postdoctoral Fellowship, $55,000 (2014-2016)

Early Childhood Care and Education Study. Research team: Carrie Germeroth (PI), Melissa Mincic, and Douglas H. Clements. Technical reviewer for MCE: Sylvia D. Hall-Ellis. State of North Dakota, Department of Public Instruction, $73,500 (2013-2014)

Graduate Level Specialty in Addiction Counselor Training with Emphasis on Integration of Native American Specific Content. Research team: Ruth Chao (PI) and Michael J. Faragher (Co-PI). Technical reviewer for MCE: Sylvia D. Hall-Ellis. The Galena Foundation, $289,732 (2013-2016)

The Collecting Asian American and Pacific Islander Refugee Stories (CARS) Project. Researcher: Samuel Museus. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Center for Community Engagement and Service Learning, $15,000 (2014)

Parents in Transition: A Multiple Case Study of Parent and Family Orientation Programs. Researcher: Judy Marquéz Kiyama. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Faculty Research Fund, $1,500 (2014-2015)

The Sistah Network: Black Women Graduate Students Supporting and Retaining Each Other. Researcher; Nicole M. Russell. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Faculty Research Fund, $2,708 (2014-2015)

Evaluation of the Northeast Denver Babies Ready for College Program. Research team: Carrie Germeroth (PI), Melissa Mincic, and Douglas H. Clements. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Mile High Montessori, $9,922 (2013-2014)

Developing Teaching Expertise in K-5 Mathematics. Research team: Julie Sarama (PI) and Douglas Clements (University of Denver), in partnership with Timothy Boerst (PI), Meghan Shaughnessy, Deborah Ball, Hyman Bass (School of Education at the University of Michigan). Technical reviewer for MCE: Sylvia D. Hall-Ellis. National Science Foundation, $449,827 ($130,344 at the University of Denver (2013-2015)

Early Learning Care and Education Study Program Grant for the State of North Dakota. Research team: Carrie Germeroth (PI), Melissa Mincic, and Sheridan Green. Technical reviewer for MCE: Sylvia D. Hall-Ellis. State of North Dakota Department of Public Instruction, $73,500 (2013-2014)

Local Professional Learning Community for School Leaders. Research team: Susan Korach (PI), Kristina Hesbol, and Rebecca McClure. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Education Development Center, $10,950 (2013)

Healthy Eaters, Lifelong Movers 2: Implementing Evidence-Based School Environment, Policy, and Curricular Changes to Increase Opportunities for Healthy Eating and Physical Activity in Low Income, Rural Colorado. Research team: Elaine Berlansky, University of Colorado at Denver (PI), Nicholas Cutforth, University of Denver (Co-PI), and Allison Reeds. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Colorado Health Foundation, $3,103,108 (2013-2017)

Hughes Rare Books Library Room Renovation in the Sturm College of Law. Project team: Patti H. Marks, Sylvia D. Hall-Ellis, and Leigh Elliott. Mabel T. Hughes Charitable Trust, $34,000 (2013-2014)

The Promise Center Partnership with the Marsico Institute for Early Learning and Literacy and the City and County of Denver. Research team: Karen Riley (PI), Douglas H. Clements (Co-PI), and Sheridan Green. Technical reviewer for MCE: Sylvia D. Hall-Ellis. The Piton Foundation, $223,468 (2013-2014)

Center of Excellence for Problem Gambling. Research team: Ruth Chao (PI) and J. Mike Faragher. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Colorado Department of Behavioral Health, $68,021 (2012-2013)

United Way Implementation and Validation Review. Research team: Douglas H. Clements (PI), Amanda Moreno, and Sheridan Green. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Mile High United Way, $19,737 (2013)

Math/Science Partnership in Rural Districts. Research team: Kristen Bunn (PI, Eagle County Schools), Paul Michalec (Co-PI), and Alegra Reiber. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Colorado Department of Education, Colorado's Mathematics and Science Partnership Program, $750,000 (2013-2014)

Mathematics and Science Education of African Americans. Research team: Nicole Russell (PI), Sylvia D. Hall-Ellis, Steve Fisher (Penrose Library). Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Professional Research Opportunities for Faculty, $29,994 (2013-2015)

Online Course Development for Curriculum and Instruction. Researcher: Nicole Russell. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Office of Teaching and Learning, $3,000 (2013)

Discourse and Opportunity: Undocumented Students and Higher Education Policy. Researcher: Ryan Gildersleeve. Technical reviewer for MCE: Sylvia D. Hall-Ellis. National Academy of Education, Spencer Foundation Postdoctoral Fellowship, $55,000 (2012-2014)

An Anthropological Study of the Latino Graduation Ceremony. Researcher: Ryan Gildersleeve. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Spencer Foundation, $39,900 (2012-2013)

Fragile-X and Pharmaceutical Company: Clinical Trial of AFQ056. University of California – Davis Children's Hospital MIND Institute (Sacramento), Children's Hospital Denver, and Rush Children's Hospital at Rush University Medical Center (Chicago). Karen Riley, PI. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Novartis Pharmaceuticals Corporation, $394,206 (2012-2014)

Project Engage, Phase 2, a DAPRA Grant in partnership with Total Immersion Systems, Inc., and Texas A&M University. Research team: Karen Riley (PI) and Lyndsay Agans (Co-PI). Technical reviewer for MCE: Sylvia D. Hall-Ellis. U.S. Department of Defense, $60,000 (2011-2013)

International School Psychology Practicum Exchange. Researcher: Gloria L. Miller. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Center for Community Engagement and Service Learning, $14,951 (2012-2013)

Online Course Development for Curriculum and Instruction. Research team: Bruce Uhrmacher (PI) and Norma Hafenstein (Co-PI). Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Office of Teaching and Learning, $18,193 (2012-2014)

Writers in the Schools. Research team: Karen Riley (PI) and Amanda Moreno (Co-PI).Technical reviewer for MCE: Sylvia D. Hall-Ellis. Colorado Humanities, $4,965 (2012-2013)

Learning Ecosystem Validation Grant. Research team: Karen Riley (PI), Lyndsay Agans, Kent Seidel, and Shimelis Assefa. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Bill & Melinda Gates Foundation, $315,000 (2012-2013)

Project Words of Oral Reading and Language Development (WORLD). Research team: Jorge E. Gonzalez (PI), Texas A&M University; Laura Saenz (Co-PI), University of Texas – Pan American; and, Sharolyn Pollard-Durodola (Co-PI), University of Denver. Technical reviewer for MCE: Sylvia D. Hall-Ellis. U.S. Department of Education, Institute of Education Sciences, $53,354 (2012-2015); award $640,718, transfer from Texas A&M University

Increasing the Efficacy of an Early Mathematics Curriculum with Scaffolding Designed to Promote Self-Regulation. Research team: Douglas H. Clements (PI) and Julie Sarama (Co-PI). Technical reviewer for MCE: Sylvia D. Hall-Ellis. U.S. Department of Education, Institute of Education Sciences, $1,445,315 (2008-2014); award $4,541,975, transfer from University at Buffalo, The State University of New York

Using Rule Space and Poset-based Adaptive Testing Methodologies to Identify Ability Patterns in Early Mathematics and Create a Comprehensive Mathematics Ability Test. Research team: Douglas H. Clements (PI) and Julie Sarama (Co-PI). Technical reviewer for MCE: Sylvia D. Hall-Ellis. National Science Foundation, $323,791 (2010-2014); award $1,194,944, transfer from University at Buffalo, The State University of New York

Comprehensive Postdoctoral Training in Scientific Education Research. Researcher: Julie Sarama (PI). Technical reviewer for MCE: Sylvia D. Hall-Ellis. U.S. Department of Education, Institute of Education Sciences, $133,458 (2010-2014); award $613,353, transfer from University at Buffalo, The State University of New York

Longitudinal Study of a Successful Scaling Up Project: Extending TRIAD. Research team: Douglas H. Clements (PI), Julie Sarama (Co-PI), and Abt Associates (Carolyn Layzer, Fatih Unlu, Laurie Bozzi, Lily Fesler, Alina Martinez, Cristofer Price, James van Orden). Technical reviewer for MCE: Sylvia D. Hall-Ellis. Institute of Education Sciences, $384,940 (2011-2015; award $1,250,286, transfer from University at Buffalo, The State University of New York

Early Childhood Education in the Context of Mathematics, Science, and Literacy. Research team: Julie Sarama (PI), Douglas H. Clements (Co-PI). Technical reviewer for MCE: Sylvia D. Hall-Ellis. National Science Foundation, $990,020 (2010-2014; award $2,285,228, transfer from University at Buffalo, The State University of New York

Early Childhood Clearinghouse Information Center Redesign. Research team: Karen Riley (PI) and Amanda Moreno (Co-PI).Technical reviewer for MCE: Sylvia D. Hall-Ellis. Office of the Lt. Governor of Colorado, $12,000 (2012-2013)

Morgridge Rural Educational Leadership Initiative. Research team: Lyndsay Agans (PI), Linda Brookhart (Co-PI), Susan Korach, and Rebecca McClure. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Morgridge Family Foundation, $100,000 (2012-2014)

Center of Excellence for Problem Gambling. Research team: Patrick Sherry (PI) and J. Mike Faragher. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Colorado Department of Behavioral Health, $55,000 (2012-2013)

Intermodal Transportation Institute Research Initiatives. Researcher: Patrick Sherry. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University Transportation Centers Program, Research and Innovative Technology Administration, U.S. Department of Transportation. $600,000 (2012-2014)

Mile High United Way Social Innovation Fund Early Literacy Initiative. Gloria L. Miller, PI, Amanda Moreano, Kim Hartnett-Edwards, and Sheridan Green. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Mile High United Way, $89,992 (2012-2013)

International School Psychology Practicum Exchange. Researcher: Gloria L. Miller. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Center for Community Engagement and Service Learning, $1,000 (2012-2013)

Refugee Student Art Outreach. Researcher: Karin Dittrick-Nathan. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Faculty Research Fund, $3,000 (2012-2013)

Resistance, Resilience, and Reciprocity: Centering the Voices of Black Doctoral Women with Faculty Aspirations. Researcher: Nicole M. Russell. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Faculty Research Fund, $2,965 (2012-2013)

Assessing Learning through Student Notebooks. Research team: Keith Miller, Nancy Sasaki, and Kathy Green. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Professional Research Opportunities for Faculty, $30,000 (2012-2014)

International School Psychology Practicum Exchange. Researcher: Gloria L. Miller. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Office of Internationalization, $2,000 (2012-2013)

ELO in Colorado. Research team: Cynthia Hazel and Duan Zhang. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Colorado Legacy Foundation, $150,000 (2012-2013)

Creating Online LIS Courses. Research team: Mary C. Stansbury (PI), Shimelis Assefa, Denise Anthony, Xiao Hu, and Krystyna Matusiak. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Center for Teaching and Learning, $15,000 (2011-2013)

Maritime Piracy Seminar. Researcher: Ved Nanda, The Nanda Center, Sturm College of Law. Technical reviewer for Sturm College of Law: Sylvia D. Hall-Ellis. Arsenault Family Foundation, $15,000 (2012-2013).

Early Childhood Librarianship: An Interdisciplinary, Experiential Learning MLIS. Researcher: Mary C. Stansbury (PI). Technical reviewer for MCE: Sylvia D. Hall-Ellis. Laura Bush's 21st Century Librarians Program, Institute for Museums and Library Services, $249,066 (2012-2014)

Learning Ecosystem Planning Grant. Research team: Karen Riley (PI), Lyndsay Agans, Kent Seidel, and Shimelis Assefa. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Bill & Melinda Gates Foundation, $281,217 (2011-2012)

Advanced Service Learning Practitioner Faculty Grant, Sylvia D. Hall-Ellis, University of Denver, Center for Community Engagement and Service Learning, $400 (2011)

Evaluating and Enhancing the EspeciallyMe Program. Research team: Lori D. Patton and Nicole Russell. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Center for Community Engagement and Service Learning, Public Good Fellowship Grant, $24,780 (2012)

Choosing Excellence: Let Every Child Bloom. Research team: Shimelis Assefa (PI) and Mary C. Stansbury (Co-PI). Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Center for Community Engagement and Service Learning, Public Good Grant, $7,657 (2012)

K-8 STEM Content Specific Professional Development to Improve Elementary Student Achievement. Research team: Kent Seidel (PI), Nicole Russell (Co-PI), Kimberly Hartnett-Edwards, Paul Michalec, Jeff Farmer, Keith Miller, Alegra Reiber, and Nancy Sasaki. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Colorado Department of Education, Improving Teacher Quality Grant, (Title II ESEA), $307,299 (2011-2012)

Building a Better Principal Pipeline to Boost Student Achievement. Researcher: Susan Korach. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Denver Public Schools; a subcontract from the Wallace Foundation Grant, $170,000 (2011-2017)

Center of Excellence for Problem Gambling. Research team: J. Mike Faragher (Co-PI) and Bobbie Vollmer (PI). Technical reviewer for MCE: Sylvia D. Hall-Ellis. Colorado Department of Behavioral Health, $79,999 (2011-2012)

An Exploration of Novice Teachers' Core Competencies: Impacts on Student Achievement, and Effectiveness of Preparation. Research team: Kent Seidel (PI), Kathy Green (Co-PI), Kimberly Hartnett-Edwards, and Duan Zhang. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Institute of Education Sciences, Effective Teachers and Effective Teaching, $990,987 (2012-2015)

Project Engage, a DAPRA Grant in partnership with Total Immersion Systems, Inc., and Texas A&M University. Research team: Karen Riley (PI) and Lyndsay Agans (Co-PI). Technical reviewer for MCE: Sylvia D. Hall-Ellis. U.S. Department of Defense, $49,964 (2011-2014)

User-centered Evaluation of Music Search Engines. Researcher: Xiao Hu. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Faculty Research Fund, $2,931 (2011-2012)

Educational Practicum in Vietnam and China to Promote the Inclusion of Young Children with Disabilities. Researcher: Gloria L. Miller. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Office of Internationalization, $5,000 (2011-2012)

Evaluation of Colorado's Enhancing Quality in Infant-Toddler (EQIT) Initiative. Research team: Virginia R. Maloney and Amanda Moreno. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Buell Foundation, $395,884 (2011-2013)

Creating Engaging Environments to Teach Pre-Algebra Mathematics to Elementary Students. Research team: Álvaro Arias, Mario López, María del Carmen Salazar, and Lyndsay Agans. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver Interdisciplinary Grant, $60,000 (2011-2012)

Morgridge Education Technology Accessible (META) Resource Project. Research team: Lyndsay Agans (PI) and Shimelis Assefa (Co-PI). Technical reviewer for MCE: Sylvia D. Hall-Ellis. Morgridge Family Foundation, $36,000 (2011)

MCE Connect: A 21st Century Framework for Faculty Development. Research team: Bruce Uhrmacher (PI), Shimelis Assefa (Co-PI), Lyndsay Agans (Co-PI), Kimberly Hartnett-Edwards, Norma Hafenstein, Xiao Hu, Paul Michalec (Co-PI), María del Carmen Salazar (Co-PI), and Sandra Snyder-Mondragon. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Center for Teaching and Learning, $22,355 (2011-2012)

Parent Education and Parent Leadership and Advocacy. Research team: Virginia Maloney (PI) and Amanda Moreno, Marsico Institute for Early Learning and Literacy. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Colorado Health Foundation, $27,358 (2010-2011)

Intentional School Culture. Researcher: Cynthia Hazel. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Denver Public Schools, $38,040 (2010-2011)

Healthy Eaters, Lifelong Movers: Implementing Evidence-Based School Environment, Policy, and Curricular Changes to Increase Opportunities for Healthy Eating and Physical Activity in Low Income, Rural Colorado. Research team: Elaine Berlansky, University of Colorado at Denver (PI), Nicholas Cutforth, University of Denver (Co-PI), and Allison Reeds. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Colorado Health Foundation, $1,683,277 (2011-2014)

Second Life Learning Community. Research team: Don McCubbrey (PI), Sylvia D. Hall-Ellis (Co-PI), Walter LaMendola, and Paul Novak. University of Denver, Center for Teaching and Learning, $13,000 (2010-2011)

Reintroducing the Value of Law Librarians to Academic and Public Librarians in Colorado through the Identification and Use of Emerging Technologies. Research team: Sylvia D. Hall-Ellis (Co-PI), Stacey L. Bowers (PI), and Christopher Hudson, in partnership with Denver Public Library, Arapahoe Library District, and the Colorado State Supreme Court Library. University of Denver, Center for Community Engagement and Service Learning, $5,773 (2010-11)

Reintroducing the Value of Law Librarians to Public Librarians through the Identification and Use of Emerging Technologies and Resources. Research team: Stacey Bowers (PI) and Sylvia D. Hall-Ellis (Co-PI). American Association of Libraries, Wolters Kluwer Law & Business Grant Program, $2,725 (2010-2011)

Faculty Service Learning Pod. Research team: María del Carmen Salazar and Nicholas Cutforth (Curriculum and Instruction Program), Frank Tuitt (Higher Education Program), Cynthia Hazel and Gloria Miller (Child, Family, and School Psychology Program), and Sylvia D. Hall-Ellis (Library and Information Science Program). University of Denver, Center for Community Engagement and Service Learning, $8,000 (2010-2011)

Lincoln Collaborative. Research team: Antonio Esquibel (Principal, Lincoln High School), María del Carmen Salazar (Curriculum and Instruction Program), and. Sylvia D. Hall-Ellis. School Improvement Grant, Denver Public Schools, $375,000 (2010-2012)

Future LEADers of America: Leaders III. Research team: Denver Public Library (Kristen Svendson, PI), the University of Denver (Sylvia D. Hall-Ellis), the Colorado Chapter of REFORMA (Orlando Archibeque), and the Colorado Association of Libraries (Martin Garnar). Laura Bush's Recruiting Librarians for the 21st Century Program, Institute for Museums and Library Services, $988,366 (2009-2012)

Teaching for Success in the Library Environment: LIS 4030 in Library 2.0. Research team: Deborah S. Grealy (PI) and Sylvia D. Hall-Ellis (Co-PI). University of Denver, Center for Teaching and Learning, $ 9,350 (2009-10)

Writing Group Faculty Grant, Sylvia D. Hall-Ellis, University of Denver, Center for Community Engagement and Service Learning, $750 (2008-2009)

Collaborative Learning Faculty Grant, Sylvia D. Hall-Ellis, University of Denver, Center for Teaching and Learning, $1,500 (2008)

Connecting Information Literacy to Learning. Research team: Lori Micho, Merrie Valliant, Amanda Samland, and Sylvia D. Hall-Ellis. Colorado State Library, LSTA Discretionary Grant Program, $19,548 (2008-2009)

Law Librarianship Fellows Program. Research team: Sylvia D. Hall-Ellis (PI), Stacey Bowers (Co-PI), and Christopher Hudson, Westminster Law Library. Laura Bush's 21st Century Librarians Program, Institute for Museums and Library Services, $999,370 (2008-2012)

Grant Writing in a Cooperative Learning Environment. Sylvia D. Hall-Ellis. University of Denver, Center for Teaching and Learning, $2,000 (2008-2009)

Project Homeless Connect 6 Event Evaluation. Research team: Sylvia D. Hall-Ellis and Duan Zhang. University of Denver Center for Community Engagement and Service Learning, $9,785 (2008)

Project Ecuador: International Learning Service Libraries – A Faculty Development Experience in Ecuador. Sylvia D. Hall-Ellis, Office of Internationalization, University of Denver, $600 (2007)

Project Ecuador: International Learning Service Libraries – A Faculty Development Experience in Ecuador. Sylvia D. Hall-Ellis, International Service Learning Office, University of Denver, $400 (2007)

Project Homeless Connect 5 Event Evaluation. Research team: Sylvia D. Hall-Ellis and Duan Zhang. University of Denver Center for Community Engagement and Service Learning, $1,000 (2007)

Project Homeless Connect 4 Event Evaluation. Research team: Sylvia D. Hall-Ellis and Duan Zhang. University of Denver Center for Community Engagement and Service Learning, $4,595 (2007)

Future LEADers of America: Leaders II. Research team: Denver Public Library (Kristen Svendson, PI), the University of Denver (Sylvia D. Hall-Ellis), and the Colorado Chapter of REFORMA (Orlando Archibeque). Laura Bush's Recruiting Librarians for the 21st Century Program, Institute for Museums and Library Services, $988,518 (2007-2010)

Strategic Planning Assistance for the Denver Medical Library. Sylvia D. Hall-Ellis. Denver Medical Library, Inc., $30,000 (2006-2007)

Destiny Software for JMAC Student Lab. Sylvia D. Hall-Ellis, gift from the Sagebrush Corporation, Minneapolis, Minnesota, $10,000 (2006)

Libraries: Tools for Education and Development Worldwide: A Faculty Development Experience in France. Sylvia D. Hall-Ellis, Office of Internationalization, University of Denver, $800 (2005)

Denver Public Library: Opportunities for Change. Sylvia D. Hall-Ellis, Colorado Community Based Research Network, $2,000 (2005)

Future LEADers of America. Research team: Denver Public Library (Letty Icolari and Steve Taylor, PIs), Emporia State University (Jim Agee), and the University of Denver (Sylvia D. Hall-Ellis). Recruiting Librarians for the 21st Century Program, Institute for Museums and Library Services, $670,315 (2005-2008)

American Association of University Professors Summer Institute Professional Development Grant. Sylvia D. Hall-Ellis, American Association of University Professors, $300 (2005)

Beta Phi Mu Alumni Tea. Sylvia D. Hall-Ellis, gift from the Office of Alumni and Parent and Relations, University of Denver, $2,000 (2005)

Spectrum Software for LIS Student Lab. Sylvia D. Hall-Ellis, gift from the Sagebrush Corporation, Minneapolis, Minnesota, $5,000 (2005)

Developing Research Capacity in Community Organizations and Residents through Training and Technical Assistance. Nicholas J. Cutforth (PI) and Sylvia D. Hall-Ellis. Piton Foundation, $25,000 (2005-2006)

Libraries: Tools for Education and Development Worldwide: A Faculty Development Experience in Argentina. Sylvia D. Hall-Ellis, Office of Internationalization, University of Denver, $500 (2004)

Developing Research Capacity in Community Organizations and Residents through Training and Technical Assistance. Research team: Nicholas J. Cutforth (PI), Gary Lichtenstein and Sylvia D. Hall-Ellis, Piton Foundation, $25,000 (2003-2004)

Increasing Spanish-Speaking and Hispanic Diversity among Library and Information Science Students at the University of Denver: Development of a Student Recruitment Model. Researcher: Sylvia D. Hall-Ellis (PI), Office of Multicultural Excellence, University of Denver, $2,750 (2003-2004)

Collection Development Enrichment to Support the Cataloging & Classification Specialization and School Librarianship within the Library & Information Science Program at the University of Denver. Research team: Sylvia D. Hall-Ellis (PI) and Deborah S. Grealy. Women's Library Association, University of Denver, $4,000 (2003)

Collection Development Enrichment to Support the Library & Information Science Program at the University of Denver. Research team: Deborah S. Grealy (PI) and Sylvia D. Hall-Ellis. Women's Library Association, University of Denver, $4,000 (2001)

Wireless LAN for Library Education. Research team: Deborah S. Grealy (PI) and Sylvia Hall-Ellis. University of Denver, Center for Teaching and Learning, $24,000 (2001-2002)

Upward Bound – A Program for South Texas Youth. Research team: Monte Churchill, Executive Director of Community Relations; Gary R. Sauceda, Outreach Coordinator; Raymond Hernandez, (PI) Associate Dean for Student Success; and Sylvia D. Hall-Ellis, South Texas Community College (McAllen, Texas). U.S. Department of Education, Office of Postsecondary Education, $2,672,003 (1999-2003)

Write Now! Improving Elementary Students' Writing Skills. Research team: Caryl G. Thomason, Assistant Superintendent (PI); Karen Tankersley, Principal; and, Hal Anderson, Director of Technology, Cheyenne Mountain School District 12 (Colorado Springs, Colorado); and Sylvia D. Hall-Ellis. Colorado Department of Education, Educational Telecommunications Unit, $189,453 (1999-2001)

Operation Quick Start -- Distance Learning in Rural Colorado. Research team: Randal Weigum, Technology Coordinator (PI); Bonnie Barns, Director of Federal Programs and Staff Development; and, Adam "Joe" Raskop, Executive Director, Southeastern Board of Cooperative Educational Services (Lamar, Colorado); and Sylvia D. Hall-Ellis. Colorado Department of Education, Educational Telecommunications Unit, $400,000 (1999-2001)

Advanced Technological Training for Information Professionals for the 21st Century. Research team: Mario Reyna, Division of Business Director (PI) and Sylvia D. Hall-Ellis, South Texas Community College (McAllen, Texas). Phi Delta Kappa and the National Science Foundation, $250,000 (1999-2001)

Working Connections – Training Information Technologies Professionals for the 21st Century. Research team: Mario Reyna, Division of Business Director (PI) and Sylvia D. Hall-Ellis, South Texas Community College (McAllen, Texas). Microsoft Corporation and the American Association of Community Colleges, $1,147,775(1999-2001)

The ROAD (Research Oriented Amplification of Development to Literacy) Program. Research team: Deborah J. Leong (PI), Metropolitan State University; Elena Bodrova, Metropolitan State University; Dmitri Semenov, Robert J. Marzano, and Sylvia D. Hall-Ellis, Mid-continent Regional Educational Laboratory (Aurora, Colorado). Hewlett-Packard Foundation, $25,000 (1998-1999)

Press to Literacy. Research team: Deborah J. Leong (PI), Metropolitan State University; Elena Bodrova, Metropolitan State University; Dmitri Semenov, Robert J. Marzano, and Sylvia D. Hall-Ellis, Mid-continent Regional Educational Laboratory (Aurora, Colorado). The Denver Post and the Robert S. McCormick Foundation, $49,818 (1998-1999)

International Telementor Center. Research team: David Neils, David B. Frost (PI), and Sylvia D. Hall-Ellis, Mid-continent Regional Educational Laboratory (Aurora, Colorado). Hewlett-Packard Philanthropy, $100,000 (1998-1999)

America Reads: Providing Tutor Training for the America Reads Challenge. Research team: Louis F. Cicchinelli (PI) and Sylvia D. Hall-Ellis, Mid-continent Regional Educational Laboratory (Aurora, Colorado). U.S. Department of Education, Office of Educational Research and Improvement, $306,000 (1998-1999)

Comprehensive School Reform. Research team: Louis F. Cicchinelli (PI), J. Timothy Waters, and Sylvia D. Hall-Ellis, Mid-continent Regional Educational Laboratory (Aurora, Colorado). U.S. Department of Education, Office of Educational Research and Improvement, $285,000 (1998-1999)

Sustainable Energy Education (SEE) Program for Grades 4-8: Preparing Today's Youth for Lifelong Learning and Responsible Actions in Energy Conservation. Research team: Mary Gromko, Colorado Department of Education; Gene McCarthy, Rocky Flats Field Office, U.S. Department of Energy; Gina Kissell, National Renewable Energy Laboratory; and Barbara L. McCombs (PI), Janet L. Bishop, and Sylvia D. Hall-Ellis, Mid-continent Regional Educational Laboratory (Aurora, Colorado). State of Colorado Governor's Office for Energy Conservation, $499,936 (1997-1999)

Review of Kansas Curriculum Standards in Mathematics and Language Arts. Research team: Robert J. Marzano (PI), John S. Kendall, David B. Frost, and Sylvia D. Hall-Ellis, Mid-continent Regional Educational Laboratory (Aurora, Colorado). Submitted to the Kansas State Department of Education, $25,903 (1998)

International Telementor Center. Research team: David Neils, John Kuglin, Chris Rapp, David B. Frost (PI), and Sylvia D. Hall-Ellis, Mid-continent Regional Educational Laboratory (Aurora, Colorado). Hewlett-Packard Company, $54,752 (1998)

Genesis Mission: Education Public Outreach. Developed in partnership by the Jet Propulsion Laboratory, California Institute of Technology, Los Alamos National Laboratory, Lockheed Martin Astronautics, and the Mid-continent Regional Educational Laboratory (Aurora, Colorado). Research team: John T. Sutton (PI), Alice Krueger, Martha Henry, Greg Rawls, Shae Isaacs, Jeff Johnson, Deb Jordan, Arlene Mitchell, David B. Frost, Jana Caldwell, J. Timothy Waters, and Sylvia D. Hall-Ellis. National Aeronautics and Space Administration, $139,700,000; subcontract award, $4,750,000 (1997-2007)

North Dakota Mathematics Assessment Project. Developed in partnership by the North Dakota Department of Education and Mid-continent Regional Educational Laboratory (Mid-continent Regional Educational Laboratory). Research team: Ann Clapper, Clarence Bina, Greg Gallagher, North Dakota Department of Education; Don Burger (PI), Hillary Michaels, and Sylvia D. Hall-Ellis, Mid-continent Regional Educational Laboratory (Aurora, Colorado). U.S. Office of Education, $1,618,214; subcontract award, $389,076 (1997-2001)

Pacific Resources for Education and Learning Distance Education: Project Evaluation. Developed in partnership by the Pacific Educational Community, the Pacific Resources for Education and Learning (PREL), and Mid-continent Regional Educational Laboratory (McREL). Research team: John W. Kofel (PI), Executive Director, PREL; J. Timothy Waters, Executive Director; Joan Buttram, Robert Keller, and Sylvia D. Hall-Ellis, Mid-continent Regional Educational Laboratory (Aurora, Colorado). U.S. Office of Education, Star Schools Program, $10,000,000; subcontract award, $500,000 (1997-2002)

Identification of Bilingual Gifted and Talented Children: A Comprehensive School Grants for Bilingual Education. Developed in partnership by Hidalgo (Texas) ISD, Los Fresnos (Texas) CISD, Progreso (Texas) ISD, University of Texas – Pan American (Edinburg, Texas), and Education Service Center, Region One (Edinburg, Texas). Research team: Hilda Medrano, Dean, College of Education, University of Texas – Pan American; Linda Phemister (PI), Janie Navarro, and Sylvia D. Hall-Ellis, Education Service Center, Region One. U.S. Department of Education, Office of Bilingual Education and Minority Languages Affairs, $1,670,633 (1997-2002)

Academics 2000: First Things First -- The Texas Goals 2000. Developed for Jim Hogg (Hebbronville, Texas) County ISD, Mirando City (Texas) ISD, and San Isidro (Texas) ISD. Research team: Hilda Medrano, Dean, College of Education, University of Texas - Pan American (Edinburg, Texas); Angie Lehmann, Amy Mares, Ellen Gonzalez (PI), and Sylvia D. Hall-Ellis, Education Service Center, Region One (Edinburg, Texas). Texas Education Agency, $339,987 (1997-2000)

Southwestern Bell's Learning Communities Initiative. Developed for Tech Prep of the Rio Grande Valley, Inc. (Harlingen, Texas); the Center for Professional Teacher Development, University of Texas – Brownsville; Teach for America – Rio Grande Valley (McAllen, Texas); and Education Service Center, Region One (Edinburg, Texas). Research team: Patricia G. Bubb, Executive Director (PI), Tech Prep of the Rio Grande Valley; Martin Winchester, Executive Director, Teach for America – Rio Grande Valley; Aileen Johnson, Director, School of Education, University of Texas – Brownsville; and Sylvia D. Hall-Ellis. Southwestern Bell Foundation, $100,000 (1997-1998)

Texas School to Work: Regional Implementation. Developed for Tech Prep of the Rio Grande Valley, Inc. (Harlingen), South Texas Community College (McAllen), Texas State Technical College (Harlingen), Texas Southmost College (Brownsville), Empowerment Zone of the Rio Grande Valley (Mercedes), Project VIDA (Weslaco), Youth Fair Chance (McAllen), and Education Service Center, Region One (Edinburg). Research team: Patricia G. Bubb (PI), Tech Prep of the Rio Grande Valley; Stephen Vassberg, Texas State Technical College; Ellen Trevino, Youth Fair Chance; Wanda Garza, Project VIDA; Leonardo Olivares, University of Texas – Pan American; Michael Bell, South Texas Community College; and Sylvia D. Hall-Ellis. Texas Workforce Commission, $4,250,000 (1997-2002).

Comprehensive Bilingual Education Grant for Hidalgo ISD and Roma ISD. Developed for Hidalgo (Texas) ISD, Roma (Texas) ISD, College of Education, University of Texas – Pan American (Edinburg, Texas), and Education Service Center, Region One (Edinburg, Texas). Research team: Tomas Thomas (PI), Director, Office of Bilingual Education and Sylvia D. Hall-Ellis. U.S. Department of Education, Office of Bilingual Education and Minority Languages Affairs, $1,531,361 (1997-2002)

Lopez High School, Porter High School, Rivera High School, Central Middle School, and Perkins Middle School, Brownsville (Texas) Independent School District. Telecommunications Infrastructure Fund Board, $1,473,611 (1997-1998)

Donna High School, Todd Middle School, and Solis Middle School, Donna (Texas) Independent School District. Telecommunications Infrastructure Fund Board, $704,052 (1997-1998)

Memorial Middle School and Nellie Schunior Middle School, La Joya Independent School District (Texas). Telecommunications Infrastructure Fund Board, $293,641 (1997-1998)

Martin High School, Christen Middle School, Cigarroa Middle School, Lamar Middle School, Laredo (Texas) Independent School District. Telecommunications Infrastructure Fund Board, $1,200,000 (1997-1998).

Lasara Middle School, Lasara (Texas) Independent School District. Telecommunications Infrastructure Fund Board, $246,210 (1997-1998)

Los Fresnos High School and Resaca Middle School, Los Fresnos (Texas) Consolidated Independent School District. Telecommunications Infrastructure Fund Board, $500,000 (1997-1998)

Lyford Junior High School, Lyford (Texas) Independent School District. Telecommunications Infrastructure Fund Board, $354,997 (1997-1998)

Travis Middle School, McAllen (Texas) Independent School District. Telecommunications Infrastructure Fund Board, $269,139 (1997-1998)

Mission High School, Mission (Texas) Independent School District. Telecommunications Infrastructure Fund Board, $297,010 (1997-1998)

Progreso High School, Progreso (Texas) Independent School District. Telecommunications Infrastructure Fund Board, $300,000 (1997-1998)

San Perlita High School, San Perlita (Texas) Independent School District. Telecommunications Infrastructure Fund Board, $293,490 (1997-1998)

Myra Green Junior High School, Raymondville (Texas) Independent School District. Telecommunications Infrastructure Fund Board, $225,000 (1997-1998)

Rio Grande City High School, Ringgold Middle School, Gruella Middle School, Rio Grande City (Texas) Independent School District. Telecommunications Infrastructure Fund Board, $809,934 (1997-1998)

Rio Hondo Junior High School, Rio Hondo (Texas) Independent School District. Telecommunications Infrastructure Fund Board, $297,024 (1997-1998)

Roma High School, Roma (Texas) Independent School District. Telecommunications Infrastructure Fund Board, $333,178 (1997-1998)

San Benito High School, Miller Jordan Junior High School, San Benito (Texas) Consolidated Independent School District. Telecommunications Infrastructure Fund Board, $547,000 (1997-1998)

Santa Maria High School and Santa Maria Middle School, Santa Maria (Texas) Independent School District. Telecommunications Infrastructure Fund Board, $400,000 (1997-1998)

Salvador High School, United Independent School District (Laredo, Texas). Telecommunications Infrastructure Fund Board, $250,879 (1997-1998)

Weslaco High School, Cabaza Middle School, Cuellar Middle School, Weslaco (Texas) Independent School District. Telecommunications Infrastructure Fund Board, $874,242 (1997-1998)

Principals' Assessment and Training Center. Developed for Education Service Center, Region One (Edinburg, Texas). Research team: Roberto Zamora, Leonel Barrera, William H. Parry, and Sylvia D. Hall-Ellis. Texas Principals' Leadership Initiative, Texas Association of Secondary School Principals, Texas Association of Elementary School Principals, and the Sid Richardson Foundation. $461,439 (1996-1998)

The Texas Library Connection -- Integrating and Sharing Resources. Developed for Hidalgo County Library System (McAllen), Cameron County Library System (Brownsville), South Texas Community College (McAllen), the University of Texas - Pan American (Edinburg), University of Texas – Brownsville, and Education Service Center, Region One (Edinburg). Research team: William R. McGee, Coordinator, Hidalgo County Library System; Joe Garcia, Director, Cameron County Library System; Michael D. Bell, Library Director, South Texas Community College; Eleanor Folger Foster, University Library, University of Texas - Pan American; Jaime Vela (PI), Director of Instructional Technology and Media Services, Ron Pontius, Instructional Technology, and Fabiola Fuentes, Media Services, Education Service Center, Region One; and Sylvia D. Hall-Ellis. Office of Library Media Services, Technology Services, Texas Education Agency. $8,000 (1996-1997)

Developing Leadership Communities for Improving Algebra I for All Students. Developed for a partnership of the Region One Statewide Systemic Initiative Team. Research team: Noel Villarreal (PI), Eduardo Cancino, and Sylvia D. Hall-Ellis, Education Service Center, Region One (Edinburg). Texas Statewide Systemic Initiative for Reform in Mathematics, Science and Technology Education to The Charles A. Dana Center for Mathematics and Science Education, The University of Texas at Austin. $25,000 (1996-1997)

Academics 2000: First Things First -- The Texas Goals 2000. Developed for Edinburg (Texas) CISD. Research team: Hilda Medrano, Dean, College of Education, University of Texas - Pan American (Edinburg); Helen Jones, Director (PI), Gifted and Talented Education, Edinburg CISD; and Sylvia D. Hall-Ellis, Education Service Center, Region One (Edinburg). Texas Education Agency, $750,000 (1996-2001)

Texas Teachers Empowered for Achievement in Mathematics (TEXTEAM) Institute for Algebra I. Developed for Hidalgo ISD, Jim Hogg (Hebbronville) County ISD, La Joya ISD, La Villa ISD, Lyford ISD, Mission CISD, Pharr-San Juan-Alamo ISD, Rio Hondo ISD, San Isidro ISD, San Perlita ISD, Santa Maria ISD, Santa Rosa, Sharyland ISD, Valley View ISD, Webb (Laredo) CISD, Weslaco ISD, and Zapata County (Zapata) ISD. Research team: Noel Villarreal (PI), Chuck McInteer, Ellen M. Gonzalez, Education Service Center, Region One (Edinburg); and Sylvia D. Hall-Ellis. Charles A. Dana Center for Mathematics and Science Education, University of Texas - Austin, $15,975 (1996)

Community Learning Center for La Villa, Texas. Developed for Edcouch-Elsa Independent School District. Research team: Noe Gonzalez (PI), Assistant Superintendent, Edcouch-Elsa Independent School District, and Sylvia D. Hall-Ellis. Delta Region Subzone, Rio Grande Valley (Texas) Rural Empowerment Zone, $325,000 (1996-1997)

Monte Alto (Texas) Community Learning Center. Developed for Monte Alto Independent School District. Research team: Homero A. Diaz (PI), Superintendent, Monte Alto Independent School District, and Sylvia D. Hall-Ellis. Delta Region Subzone, Rio Grande Valley (Texas) Rural Empowerment Zone, $300,000 (1996-1997)

Community Learning Center for La Villa, Texas. Developed for La Villa Independent School District. Research team: Sam Gonzalez (PI), Assistant Superintendent, La Villa Independent School District; and Sylvia D. Hall-Ellis. Delta Region Subzone, Rio Grande Valley (Texas) Rural Empowerment Zone, $325,000 (1996-1997)

Building Project for Taylor Elementary. Developed for Mercedes (Texas) Independent School District. Research team: Mrs. Denise Rivera, Librarian, and Eduardo Infante, Principal, Taylor Elementary School; Ismael S. Cantu (PI), Federal Programs Director, Mercedes Independent School District; and Sylvia D. Hall-Ellis. Delta Region Subzone, Rio Grande Valley (Texas) Rural Empowerment Zone, $375,000 (1996-1997)

Border Education Network (BEN) - Distance Education through Cable Television. Developed for Edinburg (Texas) Consolidated Independent School District. Research team: Noe Torres (PI), Library Media Specialist, Magdalena Rosas, Library Media and Technology Coordinator, Edinburg Consolidated Independent School District; and Sylvia D. Hall-Ellis, Education Service Center, Region One (Edinburg). Edinburg (Texas) Consolidated School District, $250,000 (1996-1997)

Multiservice One-Stop Open Enrollment Charter School. Developed for the Information Referral Resource Assistance, Inc. (McAllen, Texas). Research team: Pablo Perez and Aguie Pena (PI), Executive Director, Information Referral Resource Assistance, Inc.; Roberto Zamora and Sylvia D. Hall-Ellis, Education Service Center, Region One (Edinburg). Texas Education Agency, $3,066,000 (1996-2001)

Project OK: A Community Youth Opportunities Grant for Summer, 1996. Developed for McAllen (Texas) Independent School District, St. Joseph the Worker Catholic Church, and the Office of Adult Education, Education Service Center, Region One. Research team: Father Bart Flatt, St. Joseph the Worker Catholic Church; Noe Calvillo (PI), Office of Adult Education; Maria Louisa Garcia, McAllen Independent School District; and Sylvia D. Hall-Ellis, Education Service Center, Region One (Edinburg). Texas Protective and Regulatory Agency through the Office of the Mayor, City of McAllen, $350,000 (1996-2001).

Early Childhood: a Time of Discovery. Developed for a partnership of Lasara ISD, Rio Hondo ISD, San Perlita ISD, the School of Education, University of Texas - Brownsville, and Education Service Center, Region One (Edinburg). Research team: Hugo Rodriguez, Dean, School of Education, University of Texas - Pan American; Leonel Barrera and Jack Damron, Field Service Agents, Ellen M. Gonzalez (PI), Administrator for Student Instructional Services, Ruth Solis, Education Specialist in Special Education, and Sylvia D. Hall-Ellis, Education Service Center, Region One (Edinburg). Texas Education Agency, $722,090 (1996-2001)

Innovative Gifted and Talented Programs for Early Childhood and Elementary Education Students. Developed for a partnership of Edinburg (Texas) CISD, the School of Education, University of Texas - Pan American (Edinburg), and Education Service Center, Region One (Edinburg). Research team: Hilda Medrano, Dean,

School of Education, University of Texas - Pan American; Helen de la Garza (PI), Director of Elementary Curriculum and Instruction, Edinburg CISD; and Sylvia D. Hall-Ellis. Texas Education Agency, $750,000 (1996-2001)

Reading Recovery in Early Elementary Grades. Developed for a partnership of La Villa (Texas) ISD the School of Education, University of Texas - Pan American (Edinburg), and Education Service Center, Region One (Edinburg). Research team: Hilda Medrano, Dean, School of Education, University of Texas - Pan American; Marcario Salinas (PI), Supervisor of Elementary Curriculum and Instruction, La Villa ISD; and Sylvia D. Hall-Ellis, Education Service Center, Region One. Texas Education Agency, $750,000 (1996-2001)

Connected Mathematics Project for Middle and Junior High Students. Developed for a partnership of Michigan State University, The Charles A. Dana Center for Mathematics and Science Education, The University of Texas at Austin and Region One Statewide Systemic Initiative Team. Research team: Jack Damron, Chuck McInteer, Noel Villarreal (PI), and Sylvia D. Hall-Ellis, Education Service Center, Region One (Edinburg). National Science Foundation through Michigan State University to the Charles A. Dana Center at the University of Texas - Austin, $539,610 (1996-1999)

Sharing Resources: Testing the Interlibrary Loan Potential of the Texas Library Connection -- Integrating Media Resources. Developed under the sponsorship of the Hidalgo County Library System (McAllen) and Education Service Center, Region One (Edinburg). Research team: William H. McGee, Hidalgo County System Coordinator; Fabiola Fuentes, Library Media; Ronald Pontius (PI), Instructional Technology, Education Service Center, Region One; and Sylvia D. Hall-Ellis. Library Media Services Program, Office of Technology Services, Texas Education Agency, $25,000 (1996-1997)

State and Federal Adult Education JOBS Program. Developed for Education Service Center, Region One (Edinburg). Research team: Noe Calvillo (PI), Director, Adult Education Program, and Sylvia D. Hall-Ellis. Adult Education Program, Texas Education Agency, $532,846 (1995-1996)

Creating Safe and Drug-Free Schools and Communities. Developed for a partnership of the Region One Consortium for Safe and Drug-Free Education Environments. Research team: Clara Contreras (PI), Health Specialist, and Sylvia D. Hall-Ellis, Education Service Center, Region One (Edinburg). Texas Education Agency, $150,000 (1995-1996)

Developing Leadership Communities for Improving Mathematics Performance for All Students on Title I Campuses. Developed for a partnership of the Region One Statewide Systemic Initiative Team. Research team: Jack Damron, Chuck McInteer, Noel Villarreal (PI), and Sylvia D. Hall-Ellis, Education Service Center, Region One (Edinburg). Texas Statewide Systemic Initiative for Reform in Mathematics, Science and Technology Education to The Charles A. Dana Center for Mathematics and Science Education, The University of Texas at Austin, $50,669 (1995-1996)

The Impact of Library Resource Centers on Academic Achievement in Selected Public Schools in South Texas. Sylvia D. Hall-Ellis (PI). Developed under the sponsorship of the Department of Library Science, College of Education and Applied Science, Sam Houston State University (Huntsville). Texas Association of School Librarians, Children's Services Round Table, and Young Adults Round Table (Austin, Texas), $2,500 (1995)

School Library Media Specialists Fellowship Program. Sylvia D. Hall-Ellis (PI). Developed under the sponsorship of the Department of Library Science, College of Education and Applied Science, Sam Houston State University (Huntsville, Texas). U.S. Department of Education, HEA Title II-B, Library Education and Human Resource Development Program, $44,000 (1995-1996)

Planning for Educational Technology. Research team: Ruth Ann Riggins (PI), Director of Library Media and Technology Services, Donna (Texas) Independent School District; Noe Torres, Education Service Center,

Region One; Patricia G. Bubb, Tech Prep of the Rio Grande Calley, Inc; Michael D. Bell, South Texas Community College; and Sylvia D. Hall-Ellis, Sam Houston State University. Developed under the sponsorship of Donna (Texas) Independent School District, Education Service Center, Region One (Edinburg), Tech Prep of the Rio Grande Valley, Inc. (Harlingen), South Texas Community College (McAllen), and the Department of Library Science, Sam Houston State University (Huntsville). Funded through Infusion of Educational Technology Planning Grant Program (H.B. 18: Models). Texas Education Agency, $18,000 (1993-1994)

The Impact of Library Resource Centers on Academic Achievement in Selected Public Schools in South Texas. Sylvia D. Hall-Ellis (PI) and Mary Ann Berry. Developed under the sponsorship of the Department of Library Science, College of Education and Applied Science, Sam Houston State University (Huntsville). Sam Houston State University Research Enhancement Fund, $7,500 (1993-1994)

Electronic Mail Resource Sharing System: Management and Operation of the Iowa Computer-Assisted Network. State Library of Iowa, $294,000 (1986-1993)

The Iowa Locator: A CD-ROM Resource Sharing Tool. State Library of Iowa, $567,000 (1986-1992)

Statewide Database Development: An OCLC Tape Analysis To Determine Feasibility. State Library of South Dakota, $15,000 (1987)

The Iowa Locator: A Feasibility Study. State Library of Iowa, $50,000 (1986)

Electronic Mail Resource Sharing System: A Feasibility Study for Libraries in the State of Iowa. State Library of Iowa, $5,000 (1985)

Access Pennsylvania: A Feasibility Study. State Library of Pennsylvania, $50,000 (1984)

Automating Library Administrative and Management Tasks: Procurement and Distribution of Microcomputer Systems for District Library Centers in the Commonwealth of Pennsylvania. State Library of Pennsylvania, $495,000 (1982)

Sharing Serial Titles Resources: Procurement and Distribution of Microfiche Readers for 550 Libraries in the Commonwealth of Pennsylvania. State Library of Pennsylvania, $500,000 (1982)

Electronic Mail System: A Pilot Project for Libraries throughout the Commonwealth of Pennsylvania. State Library of Pennsylvania, $125,000 (1982)

Literacy Program for Adults in Rural Upstate New York State: Program Outreach and Evaluation - Phase 3. Appalachian Regional Commission, $50,000 (1981)

Database Building: A Cooperative Project of the Finger Lakes Library System (Ithaca), Four County Library System (Binghamton), and the Southern Tier Library System (Corning). New York State Library, $450,000 (1980-1985)

Faces of the Southern Tier: A Professional Photographer-in-Residence. New York State National Endowment for the Humanities, $25,000 (1980)

Literacy Program for Adults in Rural Upstate New York State: Program Implementation - Phase 2. Appalachian Regional Commission, $50,000 (1980)

Small Business Resources Center: A Pilot Project for Rural Public Libraries. New York State Library, $50,000 (1980)

Media Programming: A Professional Development Program for Public Librarians in Upstate New York: A Program in Allegheny, Chemung, Schuyler, Steuben, and Yates Counties. New York State Library, $35,000 (1979)

Information and Library Resources for Inmates and Prisoners in Selected Upstate New York Facilities: A Cooperative Program in Allegheny, Chemung, Schuyler, Steuben, and Yates Counties. New York State Library, $25,000 (1979)

Library Resources for Homebound Adults in Upstate New York: An Outreach Program in Allegheny, Chemung, Schuyler, Steuben, and Yates Counties. New York State Library, $40,000 (1979)

Literacy Program for Adults in Rural Upstate New York State: Program Initiation and Establishment - Phase 1. Funded by the Appalachian Regional Commission. Awarded to the Corning (New York) Public Library, $50,000 (1979)

Information Reference Services to Homebound Adults. New York State Library, $31,000 (1978)

Books-By-Mail Services to Homebound Adults. New York State Library, $31,000 (1978)

System Headquarters Services and Programs for Public Libraries in District 10. Funded through Library Services and Construction Act Title I. Texas State Library and Historical Commission, $880,000 (1976)

County Library Development Grant for Atascosita County. Funded through Library Services and Construction Act Title I. Texas State Library and Historical Commission, $15,000 (1976)

Spanish Language Materials Collection Development Program. Texas State Library and Historical Commission, $40,000 (1975)

Establishment of System Headquarters for Alamo Regional Library System (District 10) Headquartered at the San Antonio (Texas) Public Library. Texas State Library and Historical Commission, $800,000 (1975)

SELECTED CONSULTANTSHIPS

Project Strategic Planning & Funding Proposal Development

Walden University, 2015.
Pikes Peak Library District, 2014.
Douglas County Public Libraries, 2011-2012.
Denver School for Science and Technology, 2008-2011.
Johnson & Wales University, Denver Campus, 2007-2009.
Challenges, Choices, and Images K-12 Charter School, Denver Public Schools, 2007.
Denver Medical Library, Inc., 2006-2010.
Bemis Public Library (Littleton), Ergonomic Design and Facilities Enhancement Consultant, 2003.
Curtis Park Community Center (Denver), Community Technology Center Evaluation and Proposal Development Consultant, 2003.
Colorado Community Based Research Network (Denver), Funding Research Associate, 2002.
Our Lady of the Rosary Academy (Edgewater), Learning Resource Center Development Project Consultant, 2001-2003
University of Southern Colorado (Pueblo). Technology Integration and Curriculum Enhancement into Higher Education Learning Environment. Proposal Development Consultant, 2000.
Jefferson County Library System (Lakewood), 1999-2000.
Southeastern BOCES (Lamar, CO). Distance Learning Curriculum Content Development Project. Proposal Development Consultant, 1998-2004.
Cheyenne Mountain School District 12 (Colorado Springs, CO). Technology Integration into Elementary Writing Curriculum Project. Proposal Development Consultant, 1998.
Telecommunications Infrastructure Fund Board Round #2 Application, 1997. Technical assistance to the following: La Villa (Texas) Independent School District; Mirando City (Texas) Independent School District; Monte Alto (Texas) Independent School District; San Isidro (Texas) Independent School District.
Telecommunications Infrastructure Fund Board Round #1, 1996. Technical assistance to the following: Brownsville (Texas) Independent School District; Donna (Texas) Independent School District; Edinburg (Texas) Consolidated Independent School District; Harlingen (Texas) Consolidated Independent School District; Jim Hogg County Independent School District (Hebbronville, Texas); La Feria (Texas) Independent School District; La Joya (Texas) Independent School District; La Villa (Texas) Independent School District; Los Fresnos (Texas) Consolidated Independent School District; Progreso (Texas) Independent School District; Raymondville (Texas) Independent School District; Rio Hondo (Texas) Independent School District; San Benito (Texas) Independent School District; Sharyland Independent School District (Mission, Texas); Weslaco (Texas) Independent School District; Zapata (Texas) County Independent School District.
South Texas Community College (McAllen). Strategy Development to Meet the Technology Instructional Needs for Vocational, School-To-Work and Academic Programs, 1994-2000. Development Consultant.
Donna (Texas) Independent School District. Planning for the Infusion of Technology in Middle Schools Serving High At-Risk Students, 1994-1995. Research Associate.
Pettus (Texas) Independent School District. Planning for District-wide Automation in School Library Media Centers: Preparation of Data, and CD-ROM Hardware/Software Configuration Evaluation, 1994. Principal Investigator.
Fort Bend Independent School District (Sugar Land, TX). Planning for District-wide Automation in School Library Media Centers, Preparation of Data, and CD-ROM Hardware/Software Configuration Evaluation, 1994-1995. Principal Investigator.
Northern Waters Library Services (Ashland, WI). Professional Consulting Services to Make Recommendations on the Development of System-Wide Efforts of the Northern Waters Library Service, 1988-1989. Research Associate.
State Library of Iowa (Des Moines). The Iowa Locator Compact Disc to Support Multi-Type Libraries Resource Sharing including Database Design, Building, Production, and Distribution, 1986-1991. Project Director.
State Library of Iowa (Des Moines). Iowa Computer-Assisted Network Development, Enhancement, and Operation, 1985-1992. Technical Director.
State Library of South Dakota (Pierre). Statistical Sampling and Analysis of Multi-Institutional OCLC Archive Tape for Statewide Online Database Building, 1985-1986. Research Associate.
District of Columbia Public Library (Washington, DC). Planning Document for the Retrospective Conversion of Bibliographic Records and Automation Issues in the 1990's, 1984-1985. Research Associate.

State Library of Pennsylvania (Harrisburg). Database Development for High School Libraries, 1984-1985. Research Associate.
MINITEX (Minneapolis, MN). Workshops for Retrospective Conversion, Bar Coding, Library Statistics, and OCLC Serials Format, 1985. Presenter and Research Associate.
ABC Film Consortium (Altoona, Bellefonte, Johnstown, PA). Database Building, System Design, and Implementation of Online Film Booking System, 1983-1985. Database Manager.

Library Automation -- System Design & Implementation

Douglas County Library District (Castle Rock, CO). Library Automation Technical and System Performance Specifications, 2001.
Pharr-San Juan-Alamo Independent School District (Pharr, TX). Library Automation Technical and System Performance Specifications, 1997. Project Development Consultant.
Harlingen (Texas) Independent School District. Planning for District-wide Automation in Junior High School Library Media Centers: Preparation of Data, and CD-ROM Hardware/Software Configuration Evaluation, 1996. Principal Investigator.
Sharyland (Texas) Independent School District. Design and Construction of New Elementary School Library and Technology Resources Center, 1995-1996. Principal Investigator.
South Texas Independent School District (Mercedes, TX). Design and Construction of a New High School Library and Technology Resources Center, 1995-1996. Principal Investigator.
Citizens' Library (Washington, PA). Online Community Resources Files: Design and Implementation, 1984. Research Associate.
Altoona (Pennsylvania) Hospital. Integrated Online System Upgrade Study, 1984. Research Associate.
State Library of South Dakota (Pierre). Automation Plan and State Database Development, 1982-1983. Principal Investigator.
State Library of Pennsylvania (Harrisburg). COM Production and Preparation of the Technical Specifications Document, Procurement, and Distribution of Microcomputers in the Commonwealth of Pennsylvania, 1983-1984. Research Associate.
Altoona (Pennsylvania) Area Public Library. Integrated System (Circulation/Online Catalog) Study, 1982-1983. Principal Investigator.
COPSCAULD (Council of Pennsylvania State College and University Library Directors, Edinboro, PA). Design of Online Media Catalog, 1982. Principal Investigator.
Erie (Pennsylvania) County Library System. Operations Research and Design for Automated Circulation, Hardware Upgrade and Re-Retrospective Conversion, 1982. Research Associate.
Michigan Library Consortium (Lansing, MI). Tape Management System Design and Implementation, 1982-1984. Research Associate.
State Library of Pennsylvania (Harrisburg). Preparation of the Technical Specifications Document, Procurement and Distribution of Microfiche Readers in the Commonwealth of Pennsylvania, 1982. Research Associate.
Community College of Allegheny County, Allegheny Campus (Pittsburgh, PA). Integrated Systems Study, 1981. Principal Investigator.
Community College of Allegheny County, South Campus (West Mifflin, PA). Retrospective Conversion Training Program for Handicapped Students, 1981. Technical Director.
Southern Tier Library System (Corning, NY). OCLC Acquisitions Subsystem Evaluation, 1981. Principal Investigator.
South Central Reference and Research Council (Ithaca, NY). South Central Regional Delivery System, 1980. Principal Investigator.
Southern Tier Library System (Corning, NY). Newspapers on Microfilm in the Chemung-Southern Tier Library System, 1979-1981. Principal Investigator.

Cataloging & Bibliographic Database Building

Challenges, Choices, and Images K-12 Charter School, Denver Public Schools, 2007.
Denver Medical Library, Inc., 2006-2010.
Ricks Gifted and Talented School Library, 2005-
American Humane Society (Englewood), 2004-2006.
Fisher Early Learning Center Library, 2004-

Colorado Community Based Research Network (Denver), 2004-
Boulder Valley School District (Boulder), 2002-2003.
Douglas Public Library District (Castle Rock), 2001-2002.

Bibliographic Center for Research, Inc. (Denver). Original Cataloging, 2001-2003 & 1992-1993. Professional Cataloger. Libraries include Arapahoe Library District (Centennial); Clarke College (Clarke, IA); Kaiser Permanente Center for Health Research (Portland, KS); Douglas County Library System (Carson City, NV); Grinnell College (Grinnell, IA); Kansas State University (Manhattan, KS); Kansas State Library (Topeka, KS); McPherson College (McPherson, KS); Newman University (Wichita, KS); Montana Technical University (Helena, MT); Montana State Library (Helena, MT); University of Texas Southwest Medical Center Library (Dallas, TX); Community College of Southern Nevada (Las Vegas, NV); Pikes Peak Library District (Colorado Springs); Mesa Community College (Grand Junction); Coe College (Cedar Rapids, IA); Briar Cliff College (Sioux City, IA); Tri-Care Health Systems (Aurora); The Penrose-St. Francis Healthcare System (Colorado Springs); Westminster Public Library (Westminster); Lutheran Medical Center Medical Library (Wheat Ridge); American Heritage Center, University of Wyoming (Laramie, WY); National Wildlife Research Center Library (Lakewood); University of Colorado Health Sciences Center, Denison Memorial Library (Denver); Water Resources Library, Denver District Office, Bureau of Land Management (Lakewood); Mesa State Community College Learning Resources Center (Pueblo); Front Range Community College Learning Resources Center (Westminster).

Colorado Historical Society Library (Denver). Original Cataloging of Serials for Multi-Institutional Union Listing Project, 1993. Technical Services Associate. Institutional partners: Denver Art Museum, Denver Museum of Natural History Library, and Denver Botanical Gardens Library.

Arapahoe Library District (Centennial). Original Cataloging of Major Media, 1991.

Original Cataloging Projects: Davis and Elkins College (Elkins, WV), 1989-1990; Waldorf College (Forest City, IA), 1989-1990; Kennametal Corporation (Latrobe, PA), 1984-1985; Pennsylvania Public Libraries Film Center (Harrisburg), 1982-1985.

Retrospective Conversion Projects: North Central Regional Library Service (Mason City, IA), 1987-1988; Southeastern Library Services (Davenport, IA), 1986-1987; Virginia Theological Seminary (Alexandria), 1984-1985; California University of Pennsylvania (California, PA), 1984-1985; Kennametal Corporation (Latrobe, PA), 1984-1985; West Virginia University (Morgantown), 1983-1985; Altoona Area Public Library (Altoona, PA), 1983-1984; George Washington University (Washington, DC), 1983-1984; Indiana University of Pennsylvania (Indiana, PA), 1983-1985; Health Education Center (Pittsburgh), 1983-1984; Central Pennsylvania District Library Center (Bellefonte, PA), 1982-1985; Duquesne University Law School Library (Pittsburgh), 1982-1983; Allegheny County Law Library (Pittsburgh), 1982-1984; Calgon Technical Information Center (Pittsburgh), 1982; Dow Corning Corporation, Technical Information Center (Midland, MI), 1982-1983; Tri-System Public Library Retrospective Conversion Project (Binghamton, Corning, and Ithaca, NY), 1978-1981, Technical Project Director.

Updated June 2024

ATTACHMENT 1A

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337 ##$aunmediated $bn $2rdamedia
338 ##$avolume $bnc $2rdacarrier
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510 0#$aChemical abstracts $x0009-2258
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530 ##$aAlso issued online.
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ATTACHMENT 1B

LIBRARY OF CONGRESS AUTHORITIES

LC control no.: sh2010104402
LCCN Permalink: https://lccn.loc.gov/sh2010104402
HEADING: Oncology Periodicals

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001 8214464
005 20110729163747.0
008 100317|| anannbabn |n ana
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035 __ |**a** (DLC)459454
035 __ |**a** (DLC)sh2010104402
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667 __ |**a** Record generated for validation purposes.
670 __ |**a** Work cat.: Hem/onc annals, c1993-
906 __ |**t** 8888 |**u** tc00 |**v** 0
953 __ |**a** tc00

◀ Previous Next ▶

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101 Independence Ave, S.E.
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Library of Congress Authorities
URL: http://authorities.loc.gov/
Library of Congress Online Catalog
URL: https://catalog.loc.gov/

Questions, comments, error reports: Contact Us

ATTACHMENT 1C

Neoplasms MeSH Descriptor Data 2024

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Neoplasms
Tree Number(s)
C04
Unique ID
D009369
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D009369
Annotation
general; prefer specifics; familial: consider also NEOPLASTIC SYNDROMES, HEREDITARY; metastatic cancer of unknown origin: index NEOPLASM METASTASIS
Scope Note
New abnormal growth of tissue. Malignant neoplasms show a greater degree of anaplasia and have the properties of invasion and metastasis, compared to benign neoplasms.
Entry Version
NEOPL
Entry Term(s)
Benign Neoplasm
Benign Neoplasms
Cancer
Malignancy
Malignant Neoplasm
Malignant Neoplasms
Neoplasia
Neoplasm
Neoplasms, Benign
Tumor
Tumors
Consider Also
consider also terms at CANCER, CARCINO-, ONCO-, and TUMOR
Public MeSH Note
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secondary:Neoplasm Metastasis
Date Established

1966/01/01

Date of Entry

1999/01/01

Revision Date

2021/06/30

page delivered in 0.168s

Connect with NLM

National Library of Medicine
8600 Rockville Pike
Bethesda, MD 20894

Web Policies
FOIA
HHS Vulnerability Disclosure

NLM Support Center
Accessibility
Careers

NLM | NIH | HHS | USA.gov

ATTACHMENT 1D

Bibliographic Record - OCLC Number: 45075773

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	Bibliographic Level	's' - Serial
	Type of Control	' ' - No specified type of control
	Encoding Level	' ' - Full level
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	Date1/Beginning Date of Publication	'2000'
	Date2/Ending Date of Publication	'9999'
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	Frequency	'm' - Monthly
	Regularity	'r' - Regular
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	Form of Original Item	' ' - None of the following
	Form of Item	' ' - None of the following
	Nature of Entire Work	' ' - No specified nature of entire work
	Nature of Contents	' '
	Government Publication	' ' - Not a government publication
	Conference Publication	'0' - Not a conference publication
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	Modified Record	' ' - Record is not modified
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	Dimensions (c)	'n' - Not applicable
	Sound (c)	'u' - Unknown
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246 3 0 Oncology
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310 Monthly
336 text **$b** txt **$2** rdacontent
337 unmediated **$b** n **$2** rdamedia
338 volume **$b** nc **$2** rdacarrier
362 0 Vol. 1, issue 1 (Sept. 2000)-
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510 0 Chemical abstracts **$x** 0009-2258
515 Preceded by a Preview issue dated May 2000.
530 Also issued online.
650 0 Oncology **$v** Periodicals.
650 1 2 Neoplasms.
650 6 Cancer **$v** Périodiques.
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ATTACHMENT 2A

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530          $aAlso available online.
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210 $aJCO

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222 _0 $aJournal of clinical oncology$b(Online)

245 10 $aJournal of clinical oncology :$bofficial journal of the American Society of Clinical Oncology.

260 $aBaltimore, MD :$bPublished for the American Society of Clinical Oncology by Lippincott Williams & Wilkins with the assistance of Stanford University's HighWire Press

310 $aThree times a month,$b2005-

321 $aMonthly,$b1983-1999

321 $aSemimonthly,$bJan 2000-2004

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337 $acomputer$bc$2rdamedia

338 $aonline resource$bcr$2rdacarrier

362 1_ $aBegan with: Vol. 1, no. 1 (Jan. 1983).

500 $aRefereed/Peer-reviewed

538 $aMode of access: World Wide Web.

588 0_ $aVol. 17, issue 1 (Jan. 1999); title from contents screen (American Society of Clinical Oncology website, viewed May 4, 2011).

588 1_ $aVol. 29, no. 13 (May 1 2011) (American Society of Clinical Oncology website, viewed May 4, 2011).

650 _0 $aOncology$vPeriodicals.

650 _0 $aCancer$vPeriodicals.

650 _0 $aOncology.

650 _2 $aMedical Oncology.

650 _6 $aCancérologie$vPériodiques.

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650 _7 $aOncologia.$2thub

650 _7 $aCàncer.$2thub

655 _2 $aPeriodical.

655 _7 $aperiodicals.$2aat

655 _7 $aPeriodicals.$2fast$0(OCoLC)fst01411641

655 _7 $aPeriodicals.$2lcgft

655 _7 $aPériodiques.$2rvmgf

655 _7 $aRevistes electròniques.$2thub

776 $x0732-183X

710 2_ $aAmerican Society of Clinical Oncology.

906 $aJOURNAL

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ATTACHMENT 2B

Medical Oncology MeSH Descriptor Data 2024

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
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Tree Number(s)
H02.403.429.515
Unique ID
D008495
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D008495
Annotation
use for the specialty only RADIATION ONCOLOGY is also available
Scope Note
A subspecialty of internal medicine concerned with the study of neoplasms.
Entry Version
MED ONCOL
Entry Term(s)
Clinical Oncology
Oncology, Medical
NLM Classification #
QZ 21
Previous Indexing
Internal Medicine (1966-1978)
Specialties, Medical (1968-1978)
See Also
Neoplasms
Public MeSH Note
79
History Note
79
Date Established
1979/01/01
Date of Entry
1978/05/09
Revision Date
2016/06/10

Connect with NLM
National Library of Medicine
8600 Rockville Pike
Bethesda, MD 20894
Web Policies
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HHS Vulnerability Disclosure

ATTACHMENT 2C

Bibliographic Record - OCLC Number: 8320014

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008	Date Entered on File	'820408'
	Type of Date/Publication Status	'c' - Continuing resource currently published
	Date1/Beginning Date of Publication	'1983'
	Date2/Ending Date of Publication	'9999'
	Place of Publication, Production, or Execution Code	'pau' - Pennsylvania
	Frequency	'j' - Three times a month
	Regularity	'r' - Regular
	Type of Continuing Resource	'p' - Periodical
	Form of Original Item	' ' - None of the following
	Form of Item	' ' - None of the following
	Nature of Entire Work	' ' - No specified nature of entire work
	Nature of Contents	' '
	Government Publication	' ' - Not a government publication
	Conference Publication	'0' - Not a conference publication
	Original Alphabet or Script of Title	'a' - Basic Roman
	Entry Convention	'0' - Successive entry
	Language Code	'eng' - English
	Modified Record	' ' - Record is not modified
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030 JCONDN

032 714110 **$b** USPS

037 **$b** W.B Saunders Company, 6277 Sea Harbor Dr., Orlando, FL 32887-4800

041 0 eng **$b** eng
042 nsdp **$a** pcc
050 1 4 RC254.A1 **$b** J68
060 0 0 W1 **$b** JO5894H
082 1 4 616 **$2** 11
210 0 J. clin. oncol.
222 0 Journal of clinical oncology
245 0 0 Journal of clinical oncology : **$b** official journal of the American Society of Clinical Oncology.
260 New York, N.Y. : **$b** Grune & Stratton, **$c** ©1983-
300 volumes : **$b** illustrations ; **$c** 28 cm
310 Three times a month, **$b** 2005-
321 Monthly, **$b** 1983-1999
321 Semimonthly, **$b** Jan 2000-2004
336 text **$b** txt **$2** rdacontent
337 unmediated **$b** n **$2** rdamedia
338 volume **$b** nc **$2** rdacarrier
362 0 Vol. 1, no. 1 (Jan. 1983)-
500 Title from cover.
500 Imprint varies: Philadelphia, PA : W.B. Saunders, <May 1995->
510 2 Chemical abstracts **$x** 0009-2258
525 Supplements accompany some volumes
525 Supplement v. 22, no. 14S (July 15, 2004) constitutes the Annual meeting proceedings (post-meeting e dition) of the 40th Annual Meeting of the American Society of Clinical Oncology.
530 Also issued by subscription via the World Wide Web.
588 Latest issue consulted: Vol. 26, no. 27 (Sept. 20, 2008).
650 0 Oncology **$v** Periodicals.
650 0 Cancer **$v** Periodicals.
650 2 Medical Oncology.
650 7 44.81 neoplasms, tumors. **$0** (NL-LeOCL)077596749 **$2** bcl
650 7 Cancer. **$2** fast **$0** (OCoLC)fst00845317
650 7 Oncology. **$2** fast **$0** (OCoLC)fst01045739
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650 1 7 Klinische geneeskunde. **$2** gtt
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655 7 Periodicals. **$2** fast **$0** (OCoLC)fst01411641
655 7 Periodicals. **$2** lcgft
655 7 Periodicals. **$2** rbgenr
710 2 American Society of Clinical Oncology.
740 0 2 Annual meeting proceedings (post-meeting edition)
740 0 2 ASCO annual meeting proceedings (post-meeting edition)
767 0 **$t** Journal of clinical oncology (Zhongwenban) **$x** 2074-1057
767 0 **$t** Journal of clinical oncology (Wyd. polskie) **$x** 1730-8801
767 0 **$t** Journal of clinical oncology (Magyar kiad.) **$x** 1786-8084
767 0 **$t** Journal of clinical oncology (Éd. française) **$x** 1969-2420

770 0 American Society of Clinical Oncology. Annual Meeting. **$t** Meeting proceedings **$w** (DLC) 200324 3672 **$w** (OCoLC)52779786

776 0 8 **$i** Online version: **$t** Journal of clinical oncology (Online) **$x** 1527-7755 **$w** (DLC)sn 99004893 **$w** (OCoLC)42969034

776 0 8 **$i** Online version: **$t** Journal of clinical oncology **$w** (OCoLC)989669934

850 AAP **$a** ArU-M **$a** CSt-L **$a** CU-AM **$a** CU-SM **$a** CaAEU **$a** CaBVaU **$a** CaOKQH **$a** CaOTU **$a** CtY-M **$a** DNLM **$a** FU-HC **$a** ICU **$a** IU-M **$a** InLP **$a** InU **$a** InU-M **$a** MBCo **$a** MBU-M **$a** MdU-H **$a** MiDW-M **$a** MiU **$a** MoSW-M **$a** NNNAM **$a** NNU-M **$a** NbU-M **$a** NcRS **$a** NhD-D **$a** NjR **$a** OClW-H **$a** OU **$a** PPC **$a** PPPCPh **$a** PPiU **$a** RPB-S **$a** TNJ-M **$a** TxHMC **$a** ViBlbV **$a** ViU-H **$a** WaU

856 4 1 **$u** http://www.jco.org/

891 3 0 **$9** 853 **$8** 1 **$a** v. **$b** no. **$u** 24 **$v** r **$i** (year) **$j** (month) **$w** e **$x** 01

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LIBRARY OF CONGRESS AUTHORITIES

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LCCN Permalink: https://lccn.loc.gov/sh2008100056
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670 __ |**a** Work cat.: Progress in oncology, c2001-
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210 0#$aImmunol. rev.
222 #0$aImmunological reviews
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246 14$aImmunological reviews, transplantation reviews
260 ##$aCopenhagen : $bMunksgaard, $c[1977-
300 ##$av. : $bill. ; $c24 cm.
310 ##$aBimonthly, $bAug. 1984-
321 ##$aIrregular, $b1977-
362 0#$aVol. 33 (1977)-
500 ##$aEditor: v. 33-<37> G. Moller.
650 #0$aImmunology $vPeriodicals.
650 #0$aTransplantation of organs, tissues, etc. $vPeriodicals.
650 #2$aAllergy and Immunology.
650 #2$aTransplantation.
655 #2$aPeriodicals.
700 1#$aMöller, Göran, $d1936-
776 08$iOnline version: $tImmunological reviews (Online) $w(DLC) 2004233460 $w(OCoLC)48372142
780 00$tTransplantation reviews $x0082-5948 $w(DLC)sf 78000666 $w(OCoLC)1713815
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LIBRARY OF CONGRESS AUTHORITIES

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HEADING: Immunology Periodicals

000 00483cz a2200169n 450
001 7450429
005 20110729160308.0
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667 __ |**a** Record generated for validation purposes.
670 __ |**a** Work cat.: Zhonghua wei sheng wu xue, he mian yi xue za zhi =, 1981-
906 __ |**t** 8888 |**u** te00 |**v** 0
953 __ |**a** te00

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ATTACHMENT 3C

LC control no.: sh 85137008

LCCN Permalink: https://lccn.loc.gov/sh85137008

HEADING: Transplantation of organs, tissues, etc.

000 01698cz a2200409n 450

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008 860211i| anannbabn |a ana

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053 _0 |**a** RD120.7 |**b** RD129.8 |**c** Surgery

150 __ |**a** Transplantation of organs, tissues, etc.

360 __ |**i** subdivision |**a** Transplantation |**i** under individual organs and tissues of the body, e.g. |**a** Heart--Transplantation

450 __ |**a** Medical transplantation

450 __ |**a** Organ transplantation

450 __ |**a** Organ transplants

450 __ |**a** Organs (Anatomy) |**x** Transplantation

450 __ |**a** Surgical transplantation

450 __ |**a** Tissue transplantation

450 __ |**a** Tissues |**x** Transplantation

450 __ |**a** Transplant surgery

450 __ |**a** Transplantation surgery

450 __ |**a** Transplants, Organ

550 __ |**w** g |**a** Surgery

550 __ |**a** Preservation of organs, tissues, etc.

550 __ |**a** Procurement of organs, tissues, etc.

670 __ |**a** Transplant surgery, 1988. |**w** (OCoLC)17873485

670 __ |**a** Transplantation surgery, ©2001. |**w** (OCoLC)43800913

670 __ |**a** Transplant surgery, via MD.com website, Sept. 21, 2020 |**b** (Transplant surgery is a surgical specialty that performs organ transplants from live or deceased donors to recipients in need of a fully functioning organ)

670 __ |**a** University of Washington Division of Transplant Surgery website, Sept. 21, 2020: |**b** home page (abdominal (liver, kidney, pancreas) transplantation)

906 __ |**t** 9722 |**u** te04 |**v** 0

910 __ |**a** Proposal saved by jr02 on 12/08/2020 at 11:41:06

953 __ |**a** xx00 |**b** ta21

906 __ |**t** 2011 |**v** 0

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035 __ |**a** (DLC)sp 85099890

035 __ |**a** (DLC)314952

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053 _0 |**a** AP |**c** General periodicals

053 _0 |**a** PN4700 |**b** PN5650 |**c** History

150 __ |**a** Periodicals

360 __ |**i** subdivision |**a** Periodicals |**i** under specific subjects, e.g. |**a** Engineering--Periodicals; United States--History--Periodicals

450 __ |**a** Journals (Periodicals)

450 __ |**a** Magazines

550 __ |**w** g |**a** Library materials

550 __ |**w** g |**a** Mass media

550 __ |**w** g |**a** Serial publications

550 __ |**a** Newspapers

550 __ |**a** Press

670 __ |**a** UMI business vocab. |**b** (Journals)

680 __ |**i** Here are entered works on the periodicals of the world and, with appropriate subdivisions, works on special aspects or sections of periodicals. Works on periodicals in a specific language, or in a specific country or larger area, are entered under the adjectival form of the language or area, e.g. |**a** Arabic periodicals; Canadian periodicals.

906 __ |**t** 0420 |**u** te03 |**v** 0

910 __ |**a** Proposal saved by tc03 on 05/14/2012 at 17:15:30

953 __ |**a** xx00 |**b** td14

906 __ |**t** 1206 |**v** 0

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ATTACHMENT 3E

Allergy and Immunology MeSH Descriptor Data 2024

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Allergy and Immunology
Tree Number(s)
H02.403.044
Unique ID
D000486
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D000486
Annotation
the discipline (education, history, etc) only; use IMMUNE SYSTEM PHENOMENA or specifics treed under it for immunologic processes and properties; use HYPERSENSITIVITY or specifics treed under it for allergic conditions; the qualifier / immunol is available for use with specific anatomical terms, organisms, diseases, etc
Scope Note
A medical specialty concerned with the hypersensitivity of the individual to foreign substances and protection from the resultant infection or disorder.
Entry Version
ALLERGY IMMUNOLOGY
Entry Term(s)
Allergy Specialty
Allergy, Immunology
Immunology
Immunology and Allergy
Immunology, Allergy
Public MeSH Note
80; IMMUNOLOGY was heading 1963-79; RADIATION IMMUNOLOGY was heading 1964-66
Online Note
use ALLERGY AND IMMUNOLOGY to search IMMUNOLOGY 1966-79; search RADIATION IMMUNOLOGY under RADIATION EFFECTS 1966
History Note
80; IMMUNOLOGY was heading 1963-79; RADIATION IMMUNOLOGY was heading 1964-66
Entry Combination
methods:Immunologic Techniques
Date Established
1980/01/01
Date of Entry
1999/01/01
Revision Date
2011/06/24

ATTACHMENT 3F

Transplantation MeSH Descriptor Data 2024

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Transplantation
Tree Number(s)
E04.936
Unique ID
D014180
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D014180
Annotation
use for the surgical procedure; use TRANSPLANTS or specifics for the transplant itself; general or unspecified only; prefer / transpl with specific organ, tissue or cell terms or precoordinated transplantation terms (ORGAN TRANSPLANTATION, HEART TRANSPLANTATION, etc.)
Scope Note
Transference of a tissue or organ from either an alive or deceased donor, within an individual, between individuals of the same species, or between individuals of different species.
Entry Version
TRANSPL
See Also
Histocompatibility Testing
Living Donors
Neoplasm Transplantation
Organ Preservation Solutions
Organ Transplantation
Tissue Donors
Tissue Transplantation
Transplant Recipients
Transplantation Chimera
Transplantation Immunology
Date Established
1966/01/01
Date of Entry
1999/01/01
Revision Date
2015/06/23

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HHS Vulnerability Disclosure

ATTACHMENT 3G

Bibliographic Record - OCLC Number: 2885127

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	Bibliographic Level	's' - Serial
	Type of Control	' ' - No specified type of control
	Encoding Level	' ' - Full level
	Descriptive Cataloging Form	'a' - AACR2
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005	20220809165802.9	
008	Date Entered on File	'770413'
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	Date2/Ending Date of Publication	'9999'
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	Regularity	'r' - Regular
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	Government Publication	' ' - Not a government publication
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050 1 4 QR180 **$b** .I46

060 0 0 W1 **$b** IM512

082 0 4 616.079

210 0 Immunol. rev.

222 0 Immunological reviews

245 0 0 Immunological reviews.

260 Copenhagen : **$b** Munksgaard

300 volumes : **$b** illustrations ; **$c** 24 cm

310 Bimonthly, **$b** Aug. 1984-

321 Irregular, **$b** 1977-

321 Six no. a year, **$b** <Apr. 1984>-June 1984

336 text **$b** txt **$2** rdacontent

337 unmediated **$b** n **$2** rdamedia

338 volume **$b** nc **$2** rdacarrier

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500 Not acquired in LC after 8/24/2000. **$5** DLC

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650 0 Transplantation of organs, tissues, etc. **$v** Periodicals.

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650 2 Transplantation.

650 6 Immunologie **$v** Collections.

650 6 Greffe (Chirurgie) **$v** Collections.

650 6 Greffe (Chirurgie) **$x** Immunologie **$v** Collections.

650 7 Immunology. **$2** fast **$0** (OCoLC)fst00968006

650 7 Transplantation of organs, tissues, etc. **$2** fast **$0** (OCoLC)fst01154919

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655 2 Periodical.

655 4 Fulltext.

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655 7 Periodicals. **$2** fast **$0** (OCoLC)fst01411641

655 7 Periodicals. **$2** lcgft **$0** http://id.loc.gov/authorities/genreForms/gf2014026139 **$0** (uri) http://id.loc.gov/authorities/genreForms/gf2014026139

655 7 Periodicals. **$2** rbgenr

776 0 8 **$i** Online version: **$t** Immunological reviews (Online) **$x** 1600-065X **$w** (DLC) 2004233460 **$w** (OCoLC)48372142

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856 4 1 **$z** Link no longer valid as of June 8, 2012 **$u** http://www.blackwell-synergy.com/rd.asp?goto=journa l&code=imr

856 4 1 **$u** http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1600-065X

856 4 1 **$u** http://firstsearch.oclc.org **$z** Address for accessing the journal using authorization number and pas sword through OCLC FirstSearch Electronic Collections Online. Subscription to online journal require d for access to abstracts and full text

856 4 1 **$u** http://firstsearch.oclc.org/journal=0105-2896;screen=info;ECOIP **$z** Address for accessing the jou rnal from an authorized IP address through OCLC FirstSearch Electronic Collections Online. Subscrip tion to online journal required for access to abstracts and full text

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260 3#$3<2010-> : $aNew York : $bSpringer
300 ##$avolumes : $billustrations
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336 ##$atext $btxt $2rdacontent
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362 0#$aVol. 1, no. 1 (Apr. 1998)-
530 ##$aAlso issued via World Wide Web; $bOCLC FirstSearch Electronic Collections Online; $cSubscription required for access to abstracts and full text
550 ##$aIssued by: Pituitary Society, <2008->
588 ##$aLatest issue consulted: Vol. 13, no. 2 (2010)
650 #0$aPituitary gland $xDiseases $vPeriodicals.
650 #0$aPituitary gland $vPeriodicals.
650 #0$aPituitary hormones $vPeriodicals.
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035 __ |**a** (DLC)98925
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053 _0 |**a** RC658 |**b** RC658.7
150 __ |**a** Pituitary gland |**x** Diseases
906 __ |**t** 8714 |**u** fk07 |**v** 1
953 __ |**a** xx00 |**b** fj25

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ATTACHMENT 4C

LC control no.: sh 85102519
LCCN Permalink: https://lccn.loc.gov/sh85102519
HEADING: Pituitary gland

000 00835cz a2200301n 450
001 4752239
005 20120327100505.0
008 860211|| anannbabn |a ana
010 __ |**a** sh 85102519
035 __ |**a** (DLC)sh 85102519
035 __ |**a** (DLC)98924
040 __ |**a** DLC |**c** DLC |**d** DLC
053 _0 |**a** QL868 |**c** Comparative anatomy
053 _0 |**a** QM371 |**c** Human anatomy
053 _0 |**a** QP188.P58 |**c** Physiology
150 __ |**a** Pituitary gland
450 __ |**a** Hypophysis cerebri
450 __ |**w** nne |**a** Pituitary body
550 __ |**w** g |**a** Brain
550 __ |**w** g |**a** Endocrine glands
550 __ |**w** g |**a** Hypothalamo-hypophyseal system
670 __ |**a** Work cat.: Kannan, C.R. The pituitary gland, c1987.
670 __ |**a** MESH.
670 __ |**a** NIH.
906 __ |**t** 8801 |**u** fk02 |**v** 1
952 __ |**a** 0 bib. records to be changed
952 __ |**a** LC pattern: Adrenal glands
953 __ |**a** xx00 |**b** fj25

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ATTACHMENT 4D

LIBRARY OF CONGRESS AUTHORITIES

LC control no.: sh 85102529
LCCN Permalink: https://lccn.loc.gov/sh85102529
HEADING: Pituitary hormones

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001 4752249
005 20120327100505.0
008 860211i| anannbabn |b ana
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035 __ |**a** (DLC)98934
040 __ |**a** DLC |**c** DLC |**d** DLC
150 __ |**a** Pituitary hormones
550 __ |**w** g |**a** Neurohormones
550 __ |**w** g |**a** Neuropeptides
550 __ |**w** g |**a** Pituitary gland
906 __ |**t** 8928 |**u** fk07 |**v** 1
953 __ |**a** xx00 |**b** ff03

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URL: http://authorities.loc.gov/
Library of Congress Online Catalog
URL: https://catalog.loc.gov/

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ATTACHMENT4E

Pituitary Gland MeSH Descriptor Data 2024

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Pituitary Gland
Tree Number(s)
A06.300.747
A06.688.357.750
A08.186.211.180.497.352.435.500
A08.186.211.200.317.357.352.435.500
A08.713.357.750
Unique ID
D010902
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D010902
Annotation
general or unspecified: prefer specific lobes; /rad eff: consider also PITUITARY IRRADIATION; /surg: probably HYPOPHYSECTOMY; consider also PITUITARY-ADRENAL SYSTEM & HYPOTHALAMO-HYPOPHYSEAL SYSTEM
Scope Note
A small, unpaired gland situated in the SELLA TURCICA. It is connected to the HYPOTHALAMUS by a short stalk which is called the INFUNDIBULUM.
Entry Term(s)
Hypophyseal Infundibulum
Hypophyseal Stalk
Hypophysis
Hypophysis Cerebri
Hypothalamus, Infundibular
Infundibular Stalk
Infundibular Stem
Infundibulum
Infundibulum (Hypophysis)
Infundibulum, Hypophyseal
Pituitary Stalk
See Also
Hypophysectomy
Consider Also
consider also terms at HYPOPHYS-
Date Established
1966/01/01
Date of Entry
1999/01/01
Revision Date
2018/06/30

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ATTACHMENT 4F

Pituitary Diseases MeSH Descriptor Data 2024

MeSH Heading
Pituitary Diseases
Tree Number(s)
C10.228.140.617.738
C19.700
Unique ID
D010900
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D010900
Annotation
general or unspecified; prefer specifics; coordinate IM with specific part of pituitary (IM) if pertinent
Scope Note
Disorders involving either the ADENOHYPOPHYSIS or the NEUROHYPOPHYSIS. These diseases usually manifest as hypersecretion or hyposecretion of PITUITARY HORMONES. Neoplastic pituitary masses can also cause compression of the OPTIC CHIASM and other adjacent structures.
Entry Version
PITUITARY DIS
Entry Term(s)
Adenohypophyseal Diseases
Anterior Pituitary Diseases
Hypophyseal Disorders
Neurohypophyseal Diseases
Pituitary Disorders
Pituitary Gland Diseases
Posterior Pituitary Diseases
Public MeSH Note
66
History Note
66
Date Established
1966/01/01
Date of Entry
1999/01/01
Revision Date
2005/06/30

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Bethesda, MD 20894
Web Policies
FOIA
HHS Vulnerability Disclosure
EX1038 - A-118

ATTACHMENT 4G

Pituitary Hormones MeSH Descriptor Data 2024

MeSH Heading
Pituitary Hormones
Tree Number(s)
D06.472.699.631
D12.644.548.691
Unique ID
D010907
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D010907
Annotation
general or unspecified; prefer specifics; prefer specific groups or specific hormone; /defic: consider also HYPOPITUITARISM and its specifics
Scope Note
Hormones secreted by the PITUITARY GLAND including those from the anterior lobe (adenohypophysis), the posterior lobe (neurohypophysis), and the ill-defined intermediate lobe. Structurally, they include small peptides, proteins, and glycoproteins. They are under the regulation of neural signals (NEUROTRANSMITTERS) or neuroendocrine signals (HYPOTHALAMIC HORMONES) from the hypothalamus as well as feedback from their targets such as ADRENAL CORTEX HORMONES; ANDROGENS; ESTROGENS.
NLM Classification #
WK 502
See Also
Hypopituitarism
Receptors, Pituitary Hormone
Public MeSH Note
72
History Note
72
Date Established
1972/01/01
Date of Entry
1999/01/01
Revision Date
2006/07/05

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Web Policies
FOIA
HHS Vulnerability Disclosure

ATTACHMENT 4H

Bibliographic Record - OCLC Number: 39984609

LDR	Record Status	'c' - Corrected or revised
	Type of Record	'a' - Language material
	Bibliographic Level	's' - Serial
	Type of Control	' ' - No specified type of control
	Encoding Level	' ' - Full level
	Descriptive Cataloging Form	'a' - AACR2
001	39984609	
005	20181119051952.0	
008	Date Entered on File	'980924'
	Type of Date/Publication Status	'c' - Continuing resource currently published
	Date1/Beginning Date of Publication	'1998'
	Date2/Ending Date of Publication	'9999'
	Place of Publication, Production, or Execution Code	'nyu' - New York
	Frequency	'q' - Quarterly
	Regularity	'r' - Regular
	Type of Continuing Resource	'p' - Periodical
	Form of Original Item	' ' - None of the following
	Form of Item	' ' - None of the following
	Nature of Entire Work	' ' - No specified nature of entire work
	Nature of Contents	' '
	Government Publication	' ' - Not a government publication
	Conference Publication	'0' - Not a conference publication
	Original Alphabet or Script of Title	'a' - Basic Roman
	Entry Convention	'0' - Successive entry
	Language Code	'eng' - English
	Modified Record	' ' - Record is not modified
	Cataloging Source Code	' ' - National bibliographic agency

010 sn 98039407

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050 0 0 RC658 **$b** .P556

060 0 0 W1 **$b** PI749

210 1 0 Pituitary **$2** dnlm

222 0 Pituitary **$b** (Boston)

245 0 0 Pituitary.
260 **$3** 1998- : **$a** Norwell, MA : **$b** Kluwer Academic Publishers, **$c** 1998-
260 2 **$3** <2008-> : **$a** Norwell, MA : **$b** Springer
260 3 **$3** <2010-> : **$a** New York : **$b** Springer
300 volumes : **$b** illustrations
310 Four issues a year
336 text **$b** txt **$2** rdacontent
337 unmediated **$b** n **$2** rdamedia
338 volume **$b** nc **$2** rdacarrier
362 0 Vol. 1, no. 1 (Apr. 1998)-
510 0 Chemical abstracts **$x** 0009-2258
530 Also issued via World Wide Web; **$b** OCLC FirstSearch Electronic Collections Online; **$c** Subscripti on required for access to abstracts and full text.
550 Issued by: Pituitary Society, <2008->
588 Latest issue consulted: Vol. 13, no. 2 (2010).
650 0 Pituitary gland **$x** Diseases **$v** Periodicals.
650 0 Pituitary gland **$v** Periodicals.
650 0 Pituitary hormones **$v** Periodicals.
650 0 2 Pituitary Diseases.
650 0 2 Pituitary Gland.
650 0 2 Pituitary Hormones.
650 7 Pituitary gland. **$2** fast **$0** (OCoLC)fst01064934
650 7 Pituitary gland **$x** Diseases. **$2** fast **$0** (OCoLC)fst01064936
650 7 Pituitary hormones. **$2** fast **$0** (OCoLC)fst01064947
650 0 7 Hypophysenkrankheit. **$2** swd
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710 2 Pituitary Society.
776 0 8 **$i** Online version: **$t** Pituitary (Online) **$x** 1573-7403 **$w** (DLC) 2008233937 **$w** (OCoLC)422534 83
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856 4 **$u** http://firstsearch.oclc.org **$z** Address for accessing the journal using authorization number and pas sword through OCLC FirstSearch Electronic Collections Online. Subscription to online journal require d for access to abstracts and full text
856 4 **$u** http://firstsearch.oclc.org/journal=1386-341x;screen=info;ECOIP **$z** Address for accessing the jou rnal from an authorized IP address through OCLC FirstSearch Electronic Collections Online. Subscrip tion to online journal required for access to abstracts and full text
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029 1 GEBAY **$b** 2703982
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029 1 ZWZ **$b** 05226307X
029 1 UKMGB **$b** 007863831

ATTACHMENT 5A

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ISSN: 0093-7754; 1532-8708

Subject (Medical): Medicine and Health Sciences -- Neoplasms

Publisher: Elsevier Science

Additional information

Subject (General)

Oncology

Subject (LC)

Medicine -- Internal medicine -- Neoplasms. Tumors. Oncology

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Semin Oncol

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ATTACHMENT 5B

Bibliographic Record - OCLC Number: 1793234

LDR	Record Status	'c' - Corrected or revised
	Type of Record	'a' - Language material
	Bibliographic Level	's' - Serial
	Type of Control	' ' - No specified type of control
	Encoding Level	' ' - Full level
	Descriptive Cataloging Form	' ' - Non-ISBD
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005	20230430164633.7	
008	Date Entered on File	'740724'
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	Date2/Ending Date of Publication	'9999'
	Place of Publication, Production, or Execution Code	'flu' - Florida
	Frequency	'b' - Bimonthly
	Regularity	'r' - Regular
	Type of Continuing Resource	'p' - Periodical
	Form of Original Item	' ' - None of the following
	Form of Item	' ' - None of the following
	Nature of Entire Work	' ' - No specified nature of entire work
	Nature of Contents	' '
	Government Publication	' ' - Not a government publication
	Conference Publication	'0' - Not a conference publication
	Original Alphabet or Script of Title	'a' - Basic Roman
	Entry Convention	'0' - Successive entry
	Language Code	'eng' - English
	Modified Record	' ' - Record is not modified
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010 74643154

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032 055670 **$b** USPS
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082 0 4 616.9/92/005
210 0 Semin. oncol.
222 0 Seminars in oncology
245 0 0 Seminars in oncology.
260 Philadelphia, PA **$b** W.B. Saunders Co.
300 volumes ; **$c** 28 cm
310 Bimonthly
336 text **$b** txt **$2** rdacontent
337 unmediated **$b** n **$2** rdamedia
338 volume **$b** nc **$2** rdacarrier
362 0 v. 1- Mar. 1974-
510 2 Chemical abstracts **$x** 0009-2258
525 Has supplements.
580 Some issues for l974-<1979> later published in Italian as Aggiornamenti in oncologia clinica; for <19 80>- as Oncologia clinica.
650 0 Oncology **$v** Periodicals.
650 2 Neoplasms.
650 6 Cancérologie **$v** Périodiques.
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856 4 1 **$3** ClinicalKey **$u** http://www.clinicalkey.com/dura/browse/journalIssue/00937754
856 4 1 **$3** ScienceDirect **$u** http://www.sciencedirect.com/science/journal/00937754
856 4 1 **$u** http://www.seminoncol.org/
891 1 2 **$9** 853 **$8** 1 **$a** v. **$b** no. **$u** 04 **$v** r **$i** (year) **$j** (month) **$w** q
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029 1 ZWZ **$b** 038897377
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ATTACHMENT 6A

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260 ##$aDayton, Ohio : $bAlphaMed Press, $cc1996-
264 31$32022- : $aOxford : $bOxford University Press
300 ##$av. : $bill.
310 ##$aMonthly, $b2007-
321 ##$aBimonthly, $b1996-2004
321 ##$aTen issues a year, $b2005-2006
336 ##$atext $btxt $2rdacontent
337 ##$aunmediated $bn $2rdamedia
338 ##$avolume $bnc $2rdacarrier
362 0#$aVol. 1, no. 1 & 2 (1996)-
500 ##$aPrint issues ceased with v. 25 (2020).
510 1#$91 $aMEDLINE $bv4n1, 1999-
510 0#$91 $aPubMed $bv4n1, 1999-
510 0#$aPMC
510 1#$aIndex medicus
530 ##$aAlso issued online.
583 ##$3v. 3, no. 2 (April 15, 1998) $c19991214 $fNotice published $lPrinted on acid-free paper that meets the full ANSI standard for Permanent Paper
650 #2$aNeoplasms
655 #2$aPeriodical
856 4#$uhttps://pmc.ncbi.nlm.nih.gov/journals/?term=9607837
856 4#$uhttp://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1549-490X
856 4#$uhttps://academic.oup.com/oncolo?login=true
911 ##$aElectronic only, print ceased 2020. Confirmed 20201210
914 ##$aPortico $bCurrent to 2021 as of 20210405 $cISSN_10837159
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996 ##$aNOTCNSR $b20000101
998 ##$aERMSFP 108652 $b20230119
998 ##$aERMSOA 115478 $b20220125
999 ##$aAUTH
035 ##$a(DNLM)SR0085594(s)

035 ##$a(OCoLC)32869243

ATTACHMENT 6B

Bibliographic Record - OCLC Number: 32869243

LDR	Record Status	'c' - Corrected or revised
	Type of Record	'a' - Language material
	Bibliographic Level	's' - Serial
	Type of Control	' ' - No specified type of control
	Encoding Level	' ' - Full level
	Descriptive Cataloging Form	'a' - AACR2
001	32869243	
005	20240226143131.7	
008	Date Entered on File	'950725'
	Type of Date/Publication Status	'd' - Continuing resource ceased publication
	Date1/Beginning Date of Publication	'1996'
	Date2/Ending Date of Publication	'2020'
	Place of Publication, Production, or Execution Code	'ohu' - Ohio
	Frequency	'm' - Monthly
	Regularity	'r' - Regular
	Type of Continuing Resource	'p' - Periodical
	Form of Original Item	' ' - None of the following
	Form of Item	' ' - None of the following
	Nature of Entire Work	' ' - No specified nature of entire work
	Nature of Contents	' '
	Government Publication	' ' - Not a government publication
	Conference Publication	'0' - Not a conference publication
	Original Alphabet or Script of Title	'a' - Basic Roman
	Entry Convention	'0' - Successive entry
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	Modified Record	' ' - Record is not modified
	Cataloging Source Code	'c' - Cooperative cataloging program

010 sn 95005848

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019 1020001603 **$a** 1063326906 **$a** 1202944984

022 0 1083-7159 **$l** 1083-7159 **$2** 1

030 OCOLF6

037 **$b** AlphaMed Press, 4100 S. Kettering Blvd., Dayton, OH 45439-2092 **$c** $179.00 (institutions) **$c** $98.00 (individual)

042 nsdp **$a** pcc

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060 0 0 W1 **$b** ON105AM

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210 0 Oncologist **$b** (Dayt. Ohio)
222 4 The oncologist **$b** (Dayton, Ohio)
245 0 4 The oncologist.
260 Dayton, Ohio : **$b** AlphaMed Press, **$c** ©1996-
300 25 volumes : **$b** illustrations
310 Monthly, **$b** 2007-
321 Bimonthly, **$b** 1996-2004
321 Ten issues a year, **$b** 2005-2006
336 text **$b** txt **$2** rdacontent
337 unmediated **$b** n **$2** rdamedia
338 volume **$b** nc **$2** rdacarrier
362 0 Vol. 1, no. 1 & 2 (1996)-
362 1 Ceased with: Vol. 25 (2020).
550 The official journal of the Society for Translational Oncology.
650 0 Oncology **$v** Periodicals.
650 2 Neoplasms.
650 7 Oncology. **$2** fast **$0** (OCoLC)fst01045739
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710 2 Society for Translational Oncology, **$e** issuing body.
775 1 **$t** Oncologist (European ed.) **$x** 2159-8401 **$w** (DLC) 2011204356 **$w** (OCoLC)701242674
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525 ##$aIncludes a supplement, dated June 2007, entitled: Biomarkers collection
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588 ##$aLatest issue consulted: Vol. 4, no. 1 (Jan. 2004)
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LIBRARY OF CONGRESS AUTHORITIES

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LCCN Permalink: https://lccn.loc.gov/sh2009118254
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ATTACHMENT 7C

Bibliographic Record - OCLC Number: 48623853

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	Date2/Ending Date of Publication	'9999'
	Place of Publication, Production, or Execution Code	'enk' - England
	Frequency	'm' - Monthly
	Regularity	'r' - Regular
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	Form of Original Item	' ' - None of the following
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	Nature of Entire Work	' ' - No specified nature of entire work
	Nature of Contents	' '
	Government Publication	' ' - Not a government publication
	Conference Publication	'0' - Not a conference publication
	Original Alphabet or Script of Title	'a' - Basic Roman
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245 0 0 Nature reviews. **$p** Cancer.
246 3 0 Cancer
260 London, UK : **$b** Nature Pub. Group, **$c** ©2001-
300 volumes : **$b** color illustrations ; **$c** 28 cm
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336 text **$b** txt **$2** rdacontent
337 unmediated **$b** n **$2** rdamedia
338 volume **$b** nc **$2** rdacarrier
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500 Title from cover.
510 0 Chemical abstracts **$x** 0009-2258
525 Includes a supplement, dated June 2007, entitled: Biomarkers collection.
530 Also issued online to subscribers.
588 Latest issue consulted: Vol. 4, no. 1 (Jan. 2004).
650 0 Cancer **$x** Research **$v** Periodicals.
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588 ##$aLatest issue consulted: Vol. 2, no. 3 (Mar. 1990).
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ATTACHMENT 8B

Immunity MeSH Descriptor Data 2024

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Immunity
Tree Number(s)
G12.450
Unique ID
D007109
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D007109
Annotation
general or unspecified; prefer specifics
Scope Note
Nonsusceptibility to the invasive or pathogenic effects of foreign microorganisms or to the toxic effect of antigenic substances.
Entry Term(s)
Immune Process
Immune Response
See Also
Immunologic Techniques
Tumor Escape
Public MeSH Note
RADIATION IMMUNOLOGY was heading 1964-66
History Note
RADIATION IMMUNOLOGY was heading 1964-66
Date Established
1960/01/01
Date of Entry
1999/01/01
Revision Date
2020/02/28

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ATTACHMENT 8C

Immunity, Cellular MeSH Descriptor Data 2024

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Immunity, Cellular
Tree Number(s)
G12.450.050.400
Unique ID
D007111
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D007111
Annotation
coordinate with specific disease / immunol
Scope Note
Manifestations of the immune response which are mediated by antigen-sensitized T-lymphocytes via lymphokines or direct cytotoxicity. This takes place in the absence of circulating antibody or where antibody plays a subordinate role.
Entry Term(s)
Cell-Mediated Immunity
Cellular Immune Response
NLM Classification #
QW 568
Previous Indexing
Immunity (1966-1969)
See Also
Hypersensitivity, Delayed
Public MeSH Note
72
History Note
72(70)
Date Established
1972/01/01
Date of Entry
1999/01/01
Revision Date
2010/06/25

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ATTACHMENT 8D

Bibliographic Record - OCLC Number: 20567176

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	Bibliographic Level	's' - Serial
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005	20230131093635.6	
008	Date Entered on File	'891028'
	Type of Date/Publication Status	'c' - Continuing resource currently published
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	Date2/Ending Date of Publication	'9999'
	Place of Publication, Production, or Execution Code	'enk' - England
	Frequency	'm' - Monthly
	Regularity	'r' - Regular
	Type of Continuing Resource	'p' - Periodical
	Form of Original Item	' ' - None of the following
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	Nature of Entire Work	' ' - No specified nature of entire work
	Nature of Contents	' '
	Government Publication	' ' - Not a government publication
	Conference Publication	'0' - Not a conference publication
	Original Alphabet or Script of Title	'a' - Basic Roman
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030 INIMEN

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037 **$b** Journals Subscriptions Dept., Oxford University Press, Pinkhill House, Southfield Rd., Eynsham, Oxon, OX8 1JJ, UK

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210 0 Int. immunol.

222 0 International immunology

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260 Oxford : **$b** [Oxford University Press], **$c** [1989]-

300 volumes : **$b** illustrations ; **$c** 28 cm

310 Monthly, **$b** 1990-

321 Six issues a year, **$b** 1989

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337 unmediated **$b** n **$2** rdamedia

338 volume **$b** nc **$2** rdacarrier

362 0 Vol. 1, no. 1-

500 Title from cover.

588 Latest issue consulted: Vol. 2, no. 3 (Mar. 1990).

650 0 Immunology **$v** Periodicals.

650 2 Immunity. **$0** https://id.nlm.nih.gov/mesh/D007109

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856 4 **$u** http://firstsearch.oclc.org **$z** Address for accessing the journal using authorization number and password through OCLC FirstSearch Electronic Collections Online. Subscription to online journal required for access to abstracts and full text

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029 1 UKMGB **$b** 007739476

ATTACHMENT 8E

LIBRARY OF CONGRESS AUTHORITIES

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246	2_ | **0**Proc.Nat.Acad.Sci.Usa**9**n
246	2_ | **0**Proceedings of the National Academy of Sciences of the USA**9**n
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246	2_ | **0**Proc. Nat. Acad. Sc. U. S.**9**om
260	__ | **a**Washington, DC :**b**National Academy of Sciences

300	__ | **a**v.**b**illus.
310	__ | **a**Weekly,**b**2004-
321	__ | **a**Semimonthly,**b**19??-1993
321	__ | **a**Biweekly,**b**1994-2003
336	__ | **a**text**b**txt**2**rdacontent
337	__ | **a**unmediated**b**n**2**rdamedia
338	__ | **a**volume**b**nc**2**rdacarrier
362	0_ | **a**v. 1- Jan. 15, 1915-
500	__ | **a**Not to be confused with another publication with the same title covering Mar. 1863-Oct. 1894, issued in 3 pt.: pt. 1, 1877; pt. 2, 1884; pt. 3, 1895.
500	__ | **a**Vol. 13, no. 1, pt. 2, includes Index (v. 1-10, 1915-1924) to the Proceedings; List of other publications of the Academy from 1863-1926; and List of publications of the National Research Council from 1916-1925.
500	__ | **a**Issues for 1980-1984 in two parts with consecutive page numbering: Physical sciences and Biological sciences.
510	2_ | **9**1**a**MEDLINE**b**v53n5,May 1965-
510	2_ | **9**1**a**PubMed**b**v1,1915-
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510	0_ | **a**PMC
510	2_ | **a**Index medicus
515	__ | **a**Some issues accompanied by supplements with distinctive titles.
530	__ | **a**Also issued online.
533	__ | **a**Microfilm.**m**v. 1 (1915)-v.15 (1929) + index v. 1 (1915)-v.10 (1924)**b**[Bethesda, Md.] :**c**National Library of Medicine,**d**1998.**e**7 microfilm reels : negative ; 35 mm.
555	__ | **a**Vols. 1-10, 1915-24, in v. 13 (Includes list of academy publications, 1863-1926, and list of publications of the National Research Council, 1916-25); Author index: Vols. 1-50, 1914-63. 1 v.
583	__ | **3**v. 16 (1930)-**a**Will not microfilm;**z**PubMed Central title.**c**20040413**5**DNLM
583	__ | **3**Vol. 84, no. 1 (JAN 1987)**c**19890818**f**Notice not published**l**Printed on acid-free paper
650	_2 | **a**Science
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710	2_ | **a**National Research Council (U.S.).**t**List of publications, 1916-1925.
856	4_ | **u**https://www.ncbi.nlm.nih.gov/pmc/journals/2/
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ATTACHMENT 9B

Science MeSH Descriptor Data 2024

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Science
Tree Number(s)
H01.770
Unique ID
D012586
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D012586
Annotation
use for the discipline (education, history, etc) only
Scope Note
The study of natural phenomena by observation, measurement, and experimentation.
See Also
Religion and Science
Date Established
1966/01/01
Date of Entry
1999/01/01
Revision Date
2015/06/16

ATTACHMENT 9C

Bibliographic Record - OCLC Number: 1607201

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	Type of Control	' ' - No specified type of control
	Encoding Level	' ' - Full level
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008	Date Entered on File	'750907'
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	Date1/Beginning Date of Publication	'1915'
	Date2/Ending Date of Publication	'9999'
	Place of Publication, Production, or Execution Code	'dcu' - District of Columbia
	Frequency	'w' - Weekly
	Regularity	'r' - Regular
	Type of Continuing Resource	'p' - Periodical
	Form of Original Item	' ' - None of the following
	Form of Item	' ' - None of the following
	Nature of Entire Work	' ' - No specified nature of entire work
	Nature of Contents	' '
	Government Publication	' ' - Not a government publication
	Conference Publication	'0' - Not a conference publication
	Original Alphabet or Script of Title	'a' - Basic Roman
	Entry Convention	'0' - Successive entry
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	Modified Record	' ' - Record is not modified
	Cataloging Source Code	'c' - Cooperative cataloging program

010 16010069

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210 0 Proc. Natl. Acad. Sci. U.S.A.
222 0 Proceedings of the National Academy of Sciences of the United States of America
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260 Washington, D.C. : **$b** The Academy, **$c** [1915]-
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310 Weekly, **$b** 2004-
321 Monthly, **$b** 1915-1981
321 Semimonthly, **$b** 1982-1993
321 Biweekly, **$b** 1994-2003
336 text **$b** txt **$2** rdacontent
337 unmediated **$b** n **$2** rdamedia
338 volume **$b** nc **$2** rdacarrier
362 0 Vol. 1, no. 1 (Jan. 15, 1915)-
500 This series of Proceedings is independent of the earlier one of the same title, published in 3 parts, 1877 -1895.
500 Vols. for 1980-1984 issued in two parts: Biological sciences, and, Physical sciences.
500 Title from volume t.p.
500 Some issues accompanied by supplements with distinctive titles.
510 2 Chemical abstracts **$x** 0009-2258
555 Vols. 1-10, 1915-24, in v. 13 (Includes list of academy publications, 1863-1926, and list of publication s of the National Research Council, 1916-25); Author index: Vols. 1-50, 1914-63. 1 v.
580 Some contents reprinted in the Monut Wilson Observatory, Communications to the National Academy of Science
588 Latest issue consulted: Vol. 112, no. 14 (Apr. 7, 2015) (surrogate).
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856 4 1 **$u** http://www.pnas.org/

856 4 1 **$u** http://pubmedcentral.nih.gov/tocrender.fcgi?journal=2

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ATTACHMENT 9D

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HEADING: Science Periodicals

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150 __ |**a** Science |**v** Periodicals
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ATTACHMENT 10A

Journal of the National Cancer Institute.
Published in: 1940
Database:LLU Library Catalog
Access options
Access options

Availability & locations

Status:	Location:	Call number:
1(Aug 1940)-100:3(Feb 2008), 100:5(Mar 2008)-109(2017)	Webb Serials/Stacks	No Call Number

+1 more

Additional information

Title

- Journal of the National Cancer Institute.

Language

- English

Publication Information

- [Bethesda, Md.?] : U.S. Dept. of Health, Education, and Welfare, Public Health Service, National Institutes of Health ; [Washington, D.C. : For sale by the Supt. of Docs., U.S. G.P.O.

Publication Date

- 1940

Physical Description

- v. : ill. ; 28 cm.

Series

- -Apr. 1979: DHEW publication ; no. (NIH)
- May 1979-<1996>: NIH publication
- DHEW publication ; no. (NIH)
- NIH publication

Publication Type

- Periodical

Document Type

- Periodical; Government documents

Subject Terms

- Cancer -- Periodicals
- Neoplasms -- Abstracts
- Neoplasms -- Periodicals

Notes

- No longer an official government publication; no longer distributed to depository libraries after Dec. 2002.
- Published: Cary, NC : Oxford University Press, <2003->
- Supplements accompany some numbers.
- Also issued online.
- Vols. 1 (1940)-16 (1956). 1 v.
- Description based on: Vol. 62, no. 1 (Jan. 1979).
- Latest issue consulted: Vol. 95, no. 14 (July 16, 2003->.

Other Authors

- National Cancer Institute (U.S.)
- National Institutes of Health (U.S.)

Other Titles

- JNCI. Journal National Cancer Institute.
- Journal of the National Cancer Institute.

ISSN

- 0027-8874

LCCN

- 40029172

OCLC

- 1064763

Serial Publication Dates

- Began with: V. 1, no. 1 (Aug. 1940).

Publication Frequency

- Semimonthly, <1989->

Online Access

- Access electronic version via Oxford Academic: v.88 1996-.

Accession Number

- llc.b1141328

ATTACHMENT 10B

Bibliographic Record - OCLC Number: 1064763

LDR	Record Status	'c' - Corrected or revised
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	Bibliographic Level	's' - Serial
	Type of Control	' ' - No specified type of control
	Encoding Level	' ' - Full level
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	Date1/Beginning Date of Publication	'1940'
	Date2/Ending Date of Publication	'9999'
	Place of Publication, Production, or Execution Code	'ncu' - North Carolina
	Frequency	's' - Semimonthly
	Regularity	'r' - Regular
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	Nature of Contents	' '
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	Conference Publication	'0' - Not a conference publication
	Original Alphabet or Script of Title	'a' - Basic Roman
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	Language Code	'eng' - English
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	Cataloging Source Code	' ' - National bibliographic agency

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070 0 176.622 **$b** J82

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222 0 Journal of the National Cancer Institute **$b** (Print)

245 0 0 Journal of the National Cancer Institute : **$b** JNCI.

246 3 0 JNCI

260 [Bethesda, Md.?] : **$b** U.S. Dept. of Health, Education, and Welfare, Public Health Service, National Institutes of Health ; **$a** [Washington, D.C. : **$b** For sale by the Supt. of Docs., U.S. G.P.O.

260 3 **$3** <2003-> : **$a** Cary, NC : **$b** Oxford University Press

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310 Semimonthly, **$b** <1989->

321 Bimonthly (irregular), **$b** Aug. 1940-Apr. 1956

321 Monthly, **$b** June 1956-

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362 1 Began with: V. 1, no. 1 (Aug. 1940).

490 1 -Apr. 1979: DHEW publication ; **$v** no. (NIH)

490 1 May 1979-<1996>: NIH publication

500 No longer an official government publication; no longer distributed to depository libraries after Dec. 2002.

525 Supplements accompany some numbers.

555 Vols. 1 (1940)-16 (1956). 1 v.

588 Description based on: Vol. 62, no. 1 (Jan. 1979).

588 Latest issue consulted: Vol. 95, no. 14 (July 16, 2003->.

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650 2 Neoplasms

650 3 neoplasms.

650 7 Cancer. **$2** fast **$0** (OCoLC)fst00845317

650 1 7 Oncologie. **$2** gtt

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655 2 Abstracts

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655 7 Periodicals. **$2** fast **$0** (OCoLC)fst01411641

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710 2 National Cancer Institute (U.S.)

710 2 National Institutes of Health (U.S.)

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776 0 8 **$i** Online version: **$t** Journal of the National Cancer Institute (Online) **$x** 1460-2105 **$w** (DLC) 2005233013 **$w** (OCoLC)42465676

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ATTACHMENT 11A

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246 13 $aPapers from NAS Colloquia

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362 0_ $a[Vol. 1 (Jan. 1915)]-

530 $aAlso available on the internet.

500 $aThis series of Proceedings is independent of the earlier one of the same title, published in 3 parts, 1877-95.

500 $aDescription based on: Vol. 13; title from caption.

500 $aVols. for 1980- issued in two parts: Biological sciences, and, Physical sciences.

555 $aVols. 1-10, 1915-24, in v. 13 (Includes list of academy publications, 1863-1926, and list of publications of the National Research Council, 1916-25); Author index: Vols. 1-50, 1914-63. 1 v.

550 $aVols. 1- issued by the academy under a variant name: National Academy of Sciences of the United States of America.

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710 2_ $aNational Research Council (U.S.).$tList of publications.

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500         $aVols. for 1980-1984 issued in two parts: Biological sciences, and, Physical sciences.
525         $aSome issues accompanied by supplements with distinctive titles.
588         $aDescription based on print version record.
588         $aLatest issue consulted: Vol. 117 no. 9 (March 03, 2020) (publisher's Web site, viewed
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Washington, DC 20540

ATTACHMENT 11C

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338 volume **$b** nc **$2** rdacarrier
362 0 Vol. 1, no. 1 (Jan. 15, 1915)-
500 This series of Proceedings is independent of the earlier one of the same title, published in 3 parts, 1877 -1895.
500 Vols. for 1980-1984 issued in two parts: Biological sciences, and, Physical sciences.
500 Title from volume t.p.
500 Some issues accompanied by supplements with distinctive titles.
510 2 Chemical abstracts **$x** 0009-2258
555 Vols. 1-10, 1915-24, in v. 13 (Includes list of academy publications, 1863-1926, and list of publication s of the National Research Council, 1916-25); Author index: Vols. 1-50, 1914-63. 1 v.
580 Some contents reprinted in the Monut Wilson Observatory, Communications to the National Academy of Science
588 Latest issue consulted: Vol. 112, no. 14 (Apr. 7, 2015) (surrogate).
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210 0 J. clin. oncol.
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245 0 0 Journal of clinical oncology : **$b** official journal of the American Society of Clinical Oncology.
260 New York, N.Y. : **$b** Grune & Stratton, **$c** ©1983-
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321 Monthly, **$b** 1983-1999
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510 2 Chemical abstracts **$x** 0009-2258
525 Supplements accompany some volumes
525 Supplement v. 22, no. 14S (July 15, 2004) constitutes the Annual meeting proceedings (post-meeting e dition) of the 40th Annual Meeting of the American Society of Clinical Oncology.
530 Also issued by subscription via the World Wide Web.
588 Latest issue consulted: Vol. 26, no. 27 (Sept. 20, 2008).
650 0 Oncology **$v** Periodicals.
650 0 Cancer **$v** Periodicals.
650 2 Medical Oncology.
650 7 44.81 neoplasms, tumors. **$0** (NL-LeOCL)077596749 **$2** bcl
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740 0 2 Annual meeting proceedings (post-meeting edition)
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767 0 **$t** Journal of clinical oncology (Zhongwenban) **$x** 2074-1057
767 0 **$t** Journal of clinical oncology (Wyd. polskie) **$x** 1730-8801
767 0 **$t** Journal of clinical oncology (Magyar kiad.) **$x** 1786-8084
767 0 **$t** Journal of clinical oncology (Éd. française) **$x** 1969-2420

770 0 American Society of Clinical Oncology. Annual Meeting. **$t** Meeting proceedings **$w** (DLC) 200324 3672 **$w** (OCoLC)52779786

776 0 8 **$i** Online version: **$t** Journal of clinical oncology (Online) **$x** 1527-7755 **$w** (DLC)sn 99004893 **$w** (OCoLC)42969034

776 0 8 **$i** Online version: **$t** Journal of clinical oncology **$w** (OCoLC)989669934

850 AAP **$a** ArU-M **$a** CSt-L **$a** CU-AM **$a** CU-SM **$a** CaAEU **$a** CaBVaU **$a** CaOKQH **$a** CaOTU **$a** CtY-M **$a** DNLM **$a** FU-HC **$a** ICU **$a** IU-M **$a** InLP **$a** InU **$a** InU-M **$a** MBCo **$a** MBU-M **$a** MdU-H **$a** MiDW-M **$a** MiU **$a** MoSW-M **$a** NNNAM **$a** NNU-M **$a** NbU-M **$a** NcRS **$a** NhD-D **$a** NjR **$a** OClW-H **$a** OU **$a** PPC **$a** PPPCPh **$a** PPiU **$a** RPB-S **$a** TNJ-M **$a** TxHMC **$a** ViBlbV **$a** ViU-H **$a** WaU

856 4 1 **$u** http://www.jco.org/

891 3 0 **$9** 853 **$8** 1 **$a** v. **$b** no. **$u** 24 **$v** r **$i** (year) **$j** (month) **$w** e **$x** 01

891 4 1 **$9** 863 **$8** 1.1 **$a** 18 **$b** 1 **$i** 2000 **$j** 01

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029 1 NLGGC **$b** 833090550

029 1 NLM **$b** 8309333

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029 1 AU@ **$b** 000068433360

ATTACHMENT 13A

Journal of the National Cancer Institute.
Published in: 1940
Database:LLU Library Catalog
Access options
Access options

Availability & locations

Status:	Location:	Call number:
1(Aug 1940)-100:3(Feb 2008), 100:5(Mar 2008)-109(2017)	Webb Serials/Stacks	No Call Number

+1 more

Additional information

Title

- Journal of the National Cancer Institute.

Language

- English

Publication Information

- [Bethesda, Md.?] : U.S. Dept. of Health, Education, and Welfare, Public Health Service, National Institutes of Health ; [Washington, D.C. : For sale by the Supt. of Docs., U.S. G.P.O.

Publication Date

- 1940

Physical Description

- v. : ill. ; 28 cm.

Series

- -Apr. 1979: DHEW publication ; no. (NIH)
- May 1979-<1996>: NIH publication
- DHEW publication ; no. (NIH)
- NIH publication

Publication Type

- Periodical

Document Type

- Periodical; Government documents

Subject Terms

- Cancer -- Periodicals
- Neoplasms -- Abstracts
- Neoplasms -- Periodicals

Notes

- No longer an official government publication; no longer distributed to depository libraries after Dec. 2002.
- Published: Cary, NC : Oxford University Press, <2003->
- Supplements accompany some numbers.
- Also issued online.
- Vols. 1 (1940)-16 (1956). 1 v.
- Description based on: Vol. 62, no. 1 (Jan. 1979).
- Latest issue consulted: Vol. 95, no. 14 (July 16, 2003->.

Other Authors

- National Cancer Institute (U.S.)
- National Institutes of Health (U.S.)

Other Titles

- JNCI. Journal National Cancer Institute.
- Journal of the National Cancer Institute.

ISSN

- 0027-8874

LCCN

- 40029172

OCLC

- 1064763

Serial Publication Dates

- Began with: V. 1, no. 1 (Aug. 1940).

Publication Frequency

- Semimonthly, <1989->

Online Access

- Access electronic version via Oxford Academic: v.88 1996-.

Accession Number

- llc.b1141328

ATTACHMENT 13B

Bibliographic Record - OCLC Number: 1064763

LDR	Record Status	'c' - Corrected or revised
	Type of Record	'a' - Language material
	Bibliographic Level	's' - Serial
	Type of Control	' ' - No specified type of control
	Encoding Level	' ' - Full level
	Descriptive Cataloging Form	'a' - AACR2
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	Type of Date/Publication Status	'c' - Continuing resource currently published
	Date1/Beginning Date of Publication	'1940'
	Date2/Ending Date of Publication	'9999'
	Place of Publication, Production, or Execution Code	'ncu' - North Carolina
	Frequency	's' - Semimonthly
	Regularity	'r' - Regular
	Type of Continuing Resource	'p' - Periodical
	Form of Original Item	' ' - None of the following
	Form of Item	' ' - None of the following
	Nature of Entire Work	' ' - No specified nature of entire work
	Nature of Contents	' '
	Government Publication	'f' - Federal/national
	Conference Publication	'0' - Not a conference publication
	Original Alphabet or Script of Title	'a' - Basic Roman
	Entry Convention	'0' - Successive entry
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040 NLM **$b** eng **$c** NLM **$d** NSD **$d** DLC **$d** NSD **$d** OCL **$d** IUL **$d** NSD **$d** OCL **$d** GPO **$d** NSD **$d** GPO **$d** RCS **$d** IUL **$d** AIP **$d** NST **$d** AIP **$d** DLC **$d** OCL **$d** NST **$d** GPO **$d** N SD **$d** NST **$d** HUL **$d** NST **$d** HUL **$d** GPO **$d** NSD **$d** NLM **$d** OCL **$d** NST **$d** OCL **$d** NSD **$d** GPO **$d** NST **$d** NSD **$d** NST **$d** WAU **$d** NLM **$d** NSD **$d** GPA **$d** NSD **$d** NST **$d** NSD **$d** OCL **$d** NST **$d** GPO **$d** DLC **$d** OCL **$d** GPO **$d** MYG **$d** NSD **$d** GPO **$d** G UA **$d** GPO **$d** MYG **$d** HLS **$d** GPO **$d** OCL **$d** DLC **$d** GPO **$d** OCLCQ **$d** GPO **$d** NSD **$d** OCLCQ **$d** DLC **$d** GUA **$d** OCL **$d** MYG **$d** NLGGC **$d** EEM **$d** OCLCQ **$d** UBC **$d** UWW **$d** AU@ **$d** OCLCQ **$d** P4I **$d** EUW **$d** OCLCO **$d** IUL **$d** OCLCQ **$d** OCLCO **$d** O CLCF **$d** OCLCO **$d** TPA **$d** OCLCO **$d** OCLCA **$d** NJR **$d** POA **$d** TFH **$d** NLC **$d** GILDS **$d** WCM **$d** OCLCA **$d** TJC **$d** DLC **$d** W2U **$d** AGL **$d** OCLCO **$d** OCLCQ **$d** EXW **$d** L WA

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086 0 HE 20.3161

222 0 Journal of the National Cancer Institute **$b** (Print)

245 0 0 Journal of the National Cancer Institute : **$b** JNCI.

246 3 0 JNCI

260 [Bethesda, Md.?] : **$b** U.S. Dept. of Health, Education, and Welfare, Public Health Service, National Institutes of Health ; **$a** [Washington, D.C. : **$b** For sale by the Supt. of Docs., U.S. G.P.O.

260 3 **$3** <2003-> : **$a** Cary, NC : **$b** Oxford University Press

300 volumes : **$b** illustrations ; **$c** 28 cm.

310 Semimonthly, **$b** <1989->

321 Bimonthly (irregular), **$b** Aug. 1940-Apr. 1956

321 Monthly, **$b** June 1956-

336 text **$b** txt **$2** rdacontent

337 unmediated **$b** n **$2** rdamedia

338 volume **$b** nc **$2** rdacarrier

362 1 Began with: V. 1, no. 1 (Aug. 1940).

490 1 -Apr. 1979: DHEW publication ; **$v** no. (NIH)

490 1 May 1979-<1996>: NIH publication

500 No longer an official government publication; no longer distributed to depository libraries after Dec. 2002.

525 Supplements accompany some numbers.

555 Vols. 1 (1940)-16 (1956). 1 v.

588 Description based on: Vol. 62, no. 1 (Jan. 1979).

588 Latest issue consulted: Vol. 95, no. 14 (July 16, 2003->.

650 0 Cancer **$v** Periodicals.

650 2 Neoplasms

650 3 neoplasms.

650 7 Cancer. **$2** fast **$0** (OCoLC)fst00845317

650 1 7 Oncologie. **$2** gtt

655 0 Electronic journals.

655 2 Abstracts

655 2 Periodical

655 7 Periodicals. **$2** fast **$0** (OCoLC)fst01411641

655 7 Periodicals. **$2** lcgft

655 7 Periodicals. **$2** rbgenr

710 2 National Cancer Institute (U.S.)

710 2 National Institutes of Health (U.S.)

760 0 **$t** DHEW publication **$x** 0090-0206

760 0 **$t** NIH publication **$x** 0276-4733

770 0 **$t** Journal of the National Cancer Institute. Monographs **$x** 1052-6773 **$w** (DLC) 94660018 **$w** (OCoLC)21986096

776 0 8 **$i** Online version: **$t** Journal of the National Cancer Institute (Online) **$x** 1460-2105 **$w** (DLC) 2005233013 **$w** (OCoLC)42465676

780 0 5 **$t** Cancer treatment reports **$x** 0361-5960 **$w** (DLC) 76645250 **$w** (OCoLC)2101497

830 0 DHEW publication ; **$v** no. (NIH)

830 0 NIH publication.

850 AU **$a** CSt **$a** CSt-L **$a** CU-AM **$a** CU-I **$a** CU-RivA **$a** CU-SM **$a** CaOTU **$a** CaOWtU **$a** CaQMU **$a** CoFS **$a** CtY-M **$a** DLC **$a** FU-HC **$a** GU **$a** IaU **$a** InU **$a** MBCo **$a** MBU-M **$a** MCM **$a** MH-BL **$a** MH-CS **$a** MMeT **$a** MSobPR **$a** NSyU **$a** NcRS **$a** OU **$a** PPPCPh **$a** PPiC **$a** PPT **$a** PU **$a** PU-Med **$a** RPB-S **$a** TU-M **$a** TxHMC **$a** ULA **$a** ViRCU-H **$a** WaU

856 4 1 **$u** http://www.oxfordjournals.org/content?genre=journal&issn=0027-8874

891 1 2 **$9** 853 **$8** 1 **$a** v. **$b** no. **$u** 06 **$v** r **$i** (year)

891 4 0 **$9** 863 **$8** 1 **$a** <10>- **$i** <1949>- **$x** provisional

891 1 2 **$9** 853 **$8** 2 **$a** v. **$b** no. **$u** 20 **$v** r **$i** (year) **$j** (month)

891 4 0 **$9** 863 **$8** 2 **$a** <80> **$i** <1988> **$x** provisional

891 1 2 **$9** 853 **$8** 3 **$a** v. **$b** no. **$u** 24 **$v** r **$i** (year) **$j** (date)

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029 1 NLC **$b** 000007594195

ATTACHMENT 14A

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022 ##$a1547-6901 $9EN $7(Electronic)
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040 ##$aNSD $cNSD
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044 ##$9England
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245 00$aJournal of immunotoxicology.
260 ##$aPhiladelphia, PA : $bTaylor & Francis Health Sciences, $cc2004-
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300 ##$av. : $bill.
310 ##$aQuarterly
336 ##$atext $btxt $2rdacontent
337 ##$aunmediated $bn $2rdamedia
338 ##$avolume $bnc $2rdacarrier
362 0#$aVol. 1, no. 1 (Jan./Mar. 2004)-
500 ##$aTitle from cover.
500 ##$aPrint issues ceased with v. 9, no. 4 (2012).
510 1#$91 $aMEDLINE $bv5n1, Jan./Mar. 2008-
510 1#$91 $aPubMed $bv5n1, Jan./Mar. 2008-
530 ##$aAlso issued online.
650 12$aImmunity $xphysiology
650 22$aEnvironmental Exposure $xadverse effects
650 22$aPoisons $ximmunology
655 #2$aPeriodical
856 4#$uhttps://www.tandfonline.com/toc/iimt20/current
911 ##$aElectronic only, print ceased 2012. Confirmed 20150320
914 ##$aPortico $bCurrent to 2024 as of 20240208 $cISSN_1547691X
935 ##$a(DNLM)1201960-nlmdb
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ATTACHMENT 14B

Immunity MeSH Descriptor Data 2024

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Immunity
Tree Number(s)
G12.450
Unique ID
D007109
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D007109
Annotation
general or unspecified; prefer specifics
Scope Note
Nonsusceptibility to the invasive or pathogenic effects of foreign microorganisms or to the toxic effect of antigenic substances.
Entry Term(s)
Immune Process
Immune Response
See Also
Immunologic Techniques
Tumor Escape
Public MeSH Note
RADIATION IMMUNOLOGY was heading 1964-66
History Note
RADIATION IMMUNOLOGY was heading 1964-66
Date Established
1960/01/01
Date of Entry
1999/01/01
Revision Date
2020/02/28

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Bethesda, MD 20894

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ATTACHMENT 14C

Environmental Exposure MeSH Descriptor Data 2024

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Environmental Exposure
Tree Number(s)
N06.850.460.350
Unique ID
D004781
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D004781
Annotation
coordinate with specific substance
Scope Note
The exposure to potentially harmful chemical, physical, or biological agents in the environment or to environmental factors that may include ionizing radiation, pathogenic organisms, or toxic chemicals.
Entry Version
ENVIR EXPOSURE
Entry Term(s)
Exposure, Environmental
See Also
Environmental Illness
Environmental Pollutants
Multiple Chemical Sensitivity
Occupational Exposure
Persian Gulf Syndrome
Public MeSH Note
74
History Note
74(67)
Date Established
1974/01/01
Date of Entry
1999/01/01
Revision Date
2013/07/08

ATTACHMENT 14D

Poisons MeSH Descriptor Data 2024

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Poisons
Tree Number(s)
D27.720.777
D27.888.569.612
Unique ID
D011042
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D011042
Annotation
IM
Scope Note
Substances which, when ingested, inhaled, or absorbed, or when applied to, injected into, or developed within the body in relatively small amounts may, by their chemical action, cause damage to structure or disturbance of function. (From Dorland, 27th ed)
Entry Term(s)
Poison
Entry Combination
antagonists & inhibitors:Antidotes
Date Established
1966/01/01
Date of Entry
1999/01/01
Revision Date
2020/05/27

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Bethesda, MD 20894

Web Policies
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HHS Vulnerability Disclosure

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ATTACHMENT 14E

Bibliographic Record - OCLC Number: 53802741

LDR	Record Status	'c' - Corrected or revised
	Type of Record	'a' - Language material
	Bibliographic Level	's' - Serial
	Type of Control	' ' - No specified type of control
	Encoding Level	' ' - Full level
	Descriptive Cataloging Form	'a' - AACR2
001	53802741	
005	20181201070620.5	
008	Date Entered on File	'031128'
	Type of Date/Publication Status	'c' - Continuing resource currently published
	Date1/Beginning Date of Publication	'2004'
	Date2/Ending Date of Publication	'9999'
	Place of Publication, Production, or Execution Code	'pau' - Pennsylvania
	Frequency	'q' - Quarterly
	Regularity	'r' - Regular
	Type of Continuing Resource	'p' - Periodical
	Form of Original Item	' ' - None of the following
	Form of Item	' ' - None of the following
	Nature of Entire Work	' ' - No specified nature of entire work
	Nature of Contents	' '
	Government Publication	' ' - Not a government publication
	Conference Publication	'0' - Not a conference publication
	Original Alphabet or Script of Title	'a' - Basic Roman
	Entry Convention	'0' - Successive entry
	Language Code	'eng' - English
	Modified Record	' ' - Record is not modified
	Cataloging Source Code	'c' - Cooperative cataloging program

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022 0 1547-691X **$l** 1547-691X **$2** 1

037 **$b** Taylor and Francis, Inc., 325 Chesnut Street, Ste. 800, Philadelphia, PA 19106

042 nsdp **$a** pcc

050 1 0 ISSN RECORD

050 1 4 RC582.17

060 0 0 W1 **$b** JO679J

082 0 4 616.97

210 0 J. immunotoxicol. **$b** (Print)
222 0 Journal of immunotoxicology **$b** (Print)
245 0 0 Journal of immunotoxicology.
260 Philadelphia, PA : **$b** Taylor & Francis Health Sciences, **$c** ©2004-
300 volumes : **$b** illustrations
310 Quarterly
336 text **$b** txt **$2** rdacontent
337 unmediated **$b** n **$2** rdamedia
338 volume **$b** nc **$2** rdacarrier
362 0 Vol. 1, no. 1 (Jan./Mar. 2004)-
500 Title from cover.
530 Also issued online.
650 0 Immunotoxicology **$v** Periodicals.
650 0 Poisons **$x** Immunology **$v** Periodicals.
650 0 Environmental health **$v** Periodicals.
650 1 2 Immunity **$x** physiology.
650 2 2 Poisons **$x** immunology.
650 2 2 Environmental Exposure **$x** adverse effects.
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ATTACHMENT 14F

LIBRARY OF CONGRESS AUTHORITIES

LC control no.: sh 85064594
LCCN Permalink: https://lccn.loc.gov/sh85064594
HEADING: Immunotoxicology

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Questions, comments, error reports: Contact Us

ATTACHMENT 14G

LC control no.: sh 85103951

LCCN Permalink: https://lccn.loc.gov/sh85103951

HEADING: Poisons

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450 __ |**a** Poisonous substances

450 __ |**a** Toxic chemicals

450 __ |**a** Toxic substances

450 __ |**a** Toxicants

450 __ |**a** Toxics

550 __ |**w** g |**a** Bioactive compounds

550 __ |**w** g |**a** Hazardous substances

550 __ |**a** Toxicology

670 __ |**a** The toxics directory |**b** (Toxics)

680 __ |**i** Works on the poisonous influence of individual chemical substances on man and animals are entered under the substance with the subdivision |**a** Toxicology, |**i** e.g. |**a** Mercury--Toxicology; Phosphorus--Toxicology.

680 __ |**i** Works on the effect of poisons on plants are entered under |**a** Plants--Effect of poisons on; Plants--Effect of arsenic on; |**i** and similar headings.

906 __ |**t** 0341 |**u** te03 |**v** 0

953 __ |**a** xx00 |**b** ta25

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ATTACHMENT 14H

LC control no.: sh 85064541

LCCN Permalink: https://lccn.loc.gov/sh85064541

HEADING: Immunity

000 00721cz a2200193n 450

001 4715708

005 20120326100157.0

008 860211|| anannbabn |b ana

010 __ |**a** sh 85064541

035 __ |**a** (DLC)sh 85064541

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040 __ |**a** DLC |**c** DLC |**d** DLC

053 _0 |**a** QR185.2 |**b** QR185.6

150 __ |**a** Immunity

550 __ |**w** g |**a** Immunology

680 __ |**i** Here are entered general works on various types of immunity, e.g. natural immunity, cellular immunity, etc. General works on the total response of the body to invasion by micro-organisms, organ transplants or any antigenic substance are entered under |**a** Immune response.

681 __ |**i** Note under |**a** Immune response

906 __ |**t** 9008 |**u** fk03 |**v** 1

953 __ |**a** xx00 |**b** ff01

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ATTACHMENT 14I

LIBRARY OF CONGRESS AUTHORITIES

LC control no.: sh2008103229
LCCN Permalink: https://lccn.loc.gov/sh2008103229
HEADING: Environmental health Periodicals

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150 __ |**a** Environmental health |**v** Periodicals
667 __ |**a** Record generated for validation purposes.
670 __ |**a** Work cat.: Journal of environmental science & engineering, [2004]-
906 __ |**t** 8888 |**u** te00 |**v** 0
953 __ |**a** te00

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Contains

seminars in oncology

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Results

Peer Reviewed | Journal

Seminars in Oncology

ISSN: 0093-7754; 1532-8708

Subject (Medical): Medicine and Health Sciences -- Neoplasms

Publisher: Elsevier Science

Additional information

Subject (General)

Oncology

Subject (LC)

Medicine -- Internal medicine -- Neoplasms. Tumors. Oncology

Alternate Title

Semin Oncol

Full Text Access

Baystate Medical Print Collection
"VOL 1 1974 - VOL 5 1978, VOL 7 1980 - VOL 20 1994, VOL 23 1996 - VOL 39 2012"

ClinicalKey eJournals
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ATTACHMENT 15B

Bibliographic Record - OCLC Number: 1793234

LDR	Record Status	'c' - Corrected or revised
	Type of Record	'a' - Language material
	Bibliographic Level	's' - Serial
	Type of Control	' ' - No specified type of control
	Encoding Level	' ' - Full level
	Descriptive Cataloging Form	' ' - Non-ISBD
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005	20230430164633.7	
008	Date Entered on File	'740724'
	Type of Date/Publication Status	'c' - Continuing resource currently published
	Date1/Beginning Date of Publication	'1974'
	Date2/Ending Date of Publication	'9999'
	Place of Publication, Production, or Execution Code	'flu' - Florida
	Frequency	'b' - Bimonthly
	Regularity	'r' - Regular
	Type of Continuing Resource	'p' - Periodical
	Form of Original Item	' ' - None of the following
	Form of Item	' ' - None of the following
	Nature of Entire Work	' ' - No specified nature of entire work
	Nature of Contents	' '
	Government Publication	' ' - Not a government publication
	Conference Publication	'0' - Not a conference publication
	Original Alphabet or Script of Title	'a' - Basic Roman
	Entry Convention	'0' - Successive entry
	Language Code	'eng' - English
	Modified Record	' ' - Record is not modified
	Cataloging Source Code	' ' - National bibliographic agency

010 74643154

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032 055670 **$b** USPS
037 **$b** W.B. Saunders Co., The Curtis Center, Independence Square W., Philadelphia, PA 19106-3399
042 pcc **$a** nsdp
050 0 0 RC261 **$b** .A4313
060 0 0 W1 **$b** SE489E
082 0 4 616.9/92/005
210 0 Semin. oncol.
222 0 Seminars in oncology
245 0 0 Seminars in oncology.
260 Philadelphia, PA **$b** W.B. Saunders Co.
300 volumes ; **$c** 28 cm
310 Bimonthly
336 text **$b** txt **$2** rdacontent
337 unmediated **$b** n **$2** rdamedia
338 volume **$b** nc **$2** rdacarrier
362 0 v. 1- Mar. 1974-
510 2 Chemical abstracts **$x** 0009-2258
525 Has supplements.
580 Some issues for l974-<1979> later published in Italian as Aggiornamenti in oncologia clinica; for <19 80>- as Oncologia clinica.
650 0 Oncology **$v** Periodicals.
650 2 Neoplasms.
650 6 Cancérologie **$v** Périodiques.
650 7 44.81 neoplasms, tumors. **$0** (NL-LeOCL)077596749 **$2** bcl
650 7 Oncology. **$2** fast **$0** (OCoLC)fst01045739
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776 0 8 **$i** Online version: **$t** Seminars in oncology (Online) **$x** 1532-8708 **$w** (DLC) 00213235 **$w** (OCoLC)45496517
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856 4 1 **$u** http://www.seminoncol.org/
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ATTACHMENT 16A

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500 ##$aPublished: Bethesda, Md. : American Association of Immunologists, <1999->
510 1#$91 $aMEDLINE $bv95n2,Aug. 1965-
510 1#$91 $aPubMed $bv95n2,Aug. 1965-
510 0#$aOLDMEDLINE
510 1#$aAbridged index medicus
510 1#$aIndex medicus
530 ##$aAvailable also online.
583 ##$3Vol. 154, no. 7 (APR 1995) $c19950516 $fNotice published $lPrinted on acid-free paper $xFurther review is required to determine exactly when acid-free paper was first used for this title
650 12$aHypersensitivity
650 22$aAllergy and Immunology
655 #2$aPeriodical
710 2#$aAmerican Association of Immunologists.

780 00$tJournal of immunology, virus research and experimental chemotherapy $x1047-7381 $w(DLC)sf 85007035 $w(OCoLC)1778719
856 4#$uhttps://journals.aai.org/jimmunol
856 4#$uhttps://academic.oup.com/jimmunol
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ATTACHMENT 16B

Hypersensitivity MeSH Descriptor Data 2024

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Hypersensitivity
Tree Number(s)
C20.543
Unique ID
D006967
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D006967
Annotation
IM; use qualif with caution; /drug ther: consider also ANTI-ALLERGIC AGENTS; atopic = HYPERSENSITIVITY, IMMEDIATE; to food = FOOD HYPERSENSITIVITY; to light = PHOTOSENSITIVITY DISORDERS; RESPIRATORY HYPERSENSITIVITY is also available; in occup or environ exposure MULTIPLE CHEMICAL SENSITIVITY is also available
Scope Note
Altered reactivity to an antigen, which can result in pathologic reactions upon subsequent exposure to that particular antigen.
Entry Term(s)
Allergic Reaction
Allergy
See Also
Anti-Allergic Agents
Desensitization, Immunologic
Multiple Chemical Sensitivity
Public MeSH Note
66; was ALLERGY 1963-65
History Note
66; was ALLERGY 1963-65
Entry Combination
chemically induced:Drug Hypersensitivity
Date Established
1966/01/01
Date of Entry
1999/01/01
Revision Date
1999/11/03

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ATTACHMENT 16C

Bibliographic Record - OCLC Number: 1778718

LDR	Record Status	'c' - Corrected or revised
	Type of Record	'a' - Language material
	Bibliographic Level	's' - Serial
	Type of Control	' ' - No specified type of control
	Encoding Level	' ' - Full level
	Descriptive Cataloging Form	'a' - AACR2
001	1778718	
005	20231012093921.6	
008	Date Entered on File	'751101'
	Type of Date/Publication Status	'c' - Continuing resource currently published
	Date1/Beginning Date of Publication	'1950'
	Date2/Ending Date of Publication	'9999'
	Place of Publication, Production, or Execution Code	'mdu' - Maryland
	Frequency	's' - Semimonthly
	Regularity	'r' - Regular
	Type of Continuing Resource	'p' - Periodical
	Form of Original Item	' ' - None of the following
	Form of Item	' ' - None of the following
	Nature of Entire Work	' ' - No specified nature of entire work
	Nature of Contents	' '
	Government Publication	' ' - Not a government publication
	Conference Publication	'0' - Not a conference publication
	Original Alphabet or Script of Title	'a' - Basic Roman
	Entry Convention	'0' - Successive entry
	Language Code	'eng' - English
	Modified Record	' ' - Record is not modified
	Cataloging Source Code	'c' - Cooperative cataloging program

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032 280580 **$b** USPS

037 **$b** The Journal of Immunology, 428 E. Preston St., Baltimore, MD 21202

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130 0 Journal of immunology (Baltimore, Md. : 1950)
210 0 J. immunol. **$b** (1950)
222 4 The Journal of immunology **$b** (1950)
245 1 4 The journal of immunology : **$b** official journal of the American Association of Immunologists.
264 1 **$3** 1950-Jan. 1982: **$a** Baltimore, U.S.A. : **$b** Williams & Wilkins, **$c** ©1950-
264 3 1 **$3** Feb. 1982- : **$a** Baltimore, MD : **$b** American Association of Immunologists
300 volumes : **$b** illustrations ; **$c** 27 cm
310 Semimonthly, **$b** Jan. 1986-
321 Monthly, **$b** Jan. 1950-<1985>
336 text **$b** txt **$2** rdacontent
337 unmediated **$b** n **$2** rdamedia
338 volume **$b** nc **$2** rdacarrier
362 0 Vol. 64, no. 1 (Jan. 1950)-
500 Title from cover.
510 0 Chemical abstracts **$x** 0009-2258
588 1 Vol. 206, issue 4 (Feb. 15, 2021) (surrogate).
650 0 Immunology **$v** Periodicals.
650 1 2 Hypersensitivity
650 2 2 Allergy and Immunology
650 6 Immunologie **$v** Périodiques.
650 7 44.45 immunology (medicine) **$0** (NL-LeOCL)077596455 **$2** bcl
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210 0#$aMol. cell. biol. $b(Print)
222 #0$aMolecular and cellular biology $b(Print)
245 00$aMolecular and cellular biology.
246 10$aMCB $fJan. 1992-
260 ##$a[Washington, D.C.] : $bAmerican Society for Microbiology, $c1981-
300 ##$av. : $bill. ; $c26 cm.
310 ##$aMonthly
362 0#$aVol. 1, no. 1 (Jan. 1981)-
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510 2#$aBiological abstracts, $x0006-3169
510 2#$aChemical abstracts, $x0009-2258
510 2#$aEnergy information abstracts, $x0147-6521
510 2#$aEnvironment abstracts, $x0093-3287
510 2#$aExcerpta medica,
510 2#$aIndex medicus, $x0019-3879
510 2#$aLife sciences collection,
580 ##$aCumulated annually on CD-ROM with same title; also available as part of ASM journals on CD.
650 #0$aMicrobiology $vPeriodicals.
650 #0$aCytology $vPeriodicals.
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787 1#$tASM journals on CD $x1069-5524 $w(DLC)sn 93004940 $w(OCoLC)28102322
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310 Twice monthly, **$b** 2000-
321 Monthly, **$b** 1981-1999
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500 Title from cover.
510 2 Chemical abstracts **$x** 0009-2258
530 Also issued in an online version.
580 Cumulated annually on CD-ROM with same title; also available as part of ASM journals on CD.
588 Latest issue consulted: Vol. 20, no. 1 (Jan. 2000) (surrogate).
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588		$aDescription based on: Vol. 328, no. 1 (Jan. 7, 1993); title from title screen (viewed Nov. 10, 2000).
588		$aLatest issue consulted: Vol. 364, no. 19 (May 12, 2011) (publisher's Web site, viewed May 18, 2011).
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001	1587974	
005	20240820143731.0	
008	Date Entered on File	'750901'
	Type of Date/Publication Status	'c' - Continuing resource currently published
	Date1/Beginning Date of Publication	'1928'
	Date2/Ending Date of Publication	'9999'
	Place of Publication, Production, or Execution Code	'mau' - Massachusetts
	Frequency	'w' - Weekly
	Regularity	'r' - Regular
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010 20020456

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