UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

AMNEAL PHARMACEUTICALS, INC.,
Petitioner
v.

NIVAGEN PHARMACEUTICALS, INC.
Patent Owner.

IPR2025-00731
Patent No. 11,925,661

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

I. INTRODUCTION

1. My name is Sylvia D. Hall-Ellis. I have been retained as an expert by Greenberg Traurig, LLP ("Greenberg").

2. I have written this report at the request of Greenberg to provide my expert opinion regarding the authenticity and public availability of certain journal publications and other related materials. 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, 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

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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 all documents discussed herein before October 12, 2020.

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 generally relates to aqueous potassium phosphates solutions for intravenous administration to a patient and packaging for such solutions.

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 an advanced degree in chemistry, biology and/or pharmaceutics, and a few years (e.g., 2-3) of experience in preparing parenteral formulations. Additional education may serve as a substitute for a lack of experience and vice versa.

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 October 12, 2020, 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 in methods of treating colorectal and other cancers, including by immunotherapy.

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,

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[1] Chemical Abstracts Service, "CAS History," *available at* https://www.cas.org/about/cas-history (last accessed March 26, 2025); American Chemical Society, "Chemical Abstracts Service," *available at* https://www.acs.org/content/acs/en/education/whatischemistry/landmarks/cas.html (last accessed March 26, 2025).

[2] American Chemical Society, "Chemical Abstracts Service," *available at* https://www.acs.org/content/acs/en/education/whatischemistry/landmarks/cas.html (last accessed March 26, 2025).

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

PubMed includes 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]

Association, April 2009, available at https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2670211/ (last accessed March 26, 2025).

[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 March 26, 2025).

[5] U.S. National Library of Medicine, "A Brief History of NLM," available at https://www.nlm.nih.gov/about/briefhistory.html (last accessed March 26, 2025).

[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*.

34. *WayBack Machine.* The *WayBack Machine* is an application using a crawler created by the Internet Archive to search its archive of Web page URLs and to represent, graphically, the date of each crawler capture. The Internet Archive is a non-profit digital library founded in 1996 that maintains an archive of webpages collected from the Internet using software called a crawler. Crawlers automatically create a snapshot of webpages as they existed at a certain point in time. The Internet Archive captures data that is publicly available. Some sites are "not archived because they were password protected, blocked by robots.txt, or otherwise inaccessible to our automated systems. Site owners might have also

requested that their sites be excluded from the WayBack Machine."

35. As of January 1, 2023, the Internet Archive holds more than 38 million print materials, 11.6 million pieces of audiovisual content, 2.6 million software programs, 15 million audio files, 4.7 million images, 251,000 concerts, and over 832 billion web pages in its *Wayback Machine.*[8]

36. Many Internet Archive captures made by the *WayBack Machine* have a banner at the top with the capture date prominently displayed. Other dates when captures of the same URL have been made are indicated to the right and left of the date provided in the banner. Some captures may lack this banner. In any case, the URL for the capture begins with the identification of the Internet Archive page (e.g., http://web.archive.org/web/) followed by information that dates and time stamps the capture as follows: year in yyyy, month in mm, day in dd, time code in hh:mm:ss (e.g., 20071120082013, or November 20, 2007 at 8:20:13 a.m.). These elements are then followed by the URL of the original capture site. When links are active, the *WayBack Machine* is programed to produce the archived file with the closest available date (not the closest available prior date) to the page upon which the link appeared and was clicked. I and other librarian professionals are familiar

[8] https://en.wikipedia.org/wiki/Internet_Archive

with the Internet Archive and the *Wayback Machine*.[9]

B. MARC RECORDS AND THE ONLINE LIBRARY CATALOG

37. 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.[10] 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 primary communications protocol for the transfer and storage of bibliographic metadata in libraries.[11]

38. Since at least the early 1970s and continuing to the present day,

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[9] For more information about the Internet Archive see the WayBack Machine FAQ, https://archive.org/about/faqs.php#The_Wayback_Machine.

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

[11] 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 March 26, 2025) ("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.

MARC has been the primary communications protocol for the transfer and storage of bibliographic metadata in libraries.[12] 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 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.

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[12] 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 March 26, 2025).

Why Is a MARC Record Necessary? LIBRARY OF CONGRESS.[13]

39. Thus, almost every major library in the world is MARC-compatible. *See, e.g.*, *MARC Frequently Asked Questions (FAQ)*, LIBRARY OF CONGRESS.[14] ("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 (reaffirmed in 2016) for Information Interchange Format. The full text of the standard is available from the Library of Congress.[15]

40. 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

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

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

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

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.[16]

41. 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 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.[17]

42. 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.[18] For example, 6XX fields are termed "Subject Access Fields."[19] Among these, for example, is the 650 field; this is the "Subject

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

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

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

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

Added Entry – Topical Term" field.[20] 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 Congress Call Number."[21] 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."[22] 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

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

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

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

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.

C. OCLC

43. 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."[23] Among other services, OCLC and its members are responsible for maintaining the WorldCat database,[24] used by independent and institutional libraries throughout the world.

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[23] 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).

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

44. 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 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.

45. 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.

46. 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).

47. 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 1009 ("Terlevich")

48. Exhibit 1009 is a copy of the journal article titled "Refeeding syndrome: effective and safe treatment with Phosphates Polyfusor" by A. Terlevich, S. D. Hearing, W. W. Woltersdorf, C. Smyth, D. Reid, E. McCullagh, A. Day, and C. S. J. Probert (hereafter "Terlevich"). The Terlevich article was published in Volume 17, Issue 10 of the journal titled *Alimentary Pharmacology &*

Therapeutics and was found in the National Library of Medicine (Bethesda, Maryland). The Terlevich article appears beginning on page 1325 of this issue dated May 15, 2003. Exhibit 1009 is a true and correct copy of the Terlevich article (pages 1325-1329) that I received from the National Library of Medicine. 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. 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.

49. The Terlevich article is available through the National Library of Medicine[25] and from the publisher, the Wiley Online Library,[26] which indicates that the Terlevich article was published on May 16, 2003.

50. Attached hereto as Attachment 1A is a true and correct copy of the MARC record for the journal titled *Alimentary Pharmacology & Therapeutics* 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 035. The library continues to update this MARC record and enhanced the MARC record

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[25] https://pubmed.ncbi.nlm.nih.gov/12755846/

[26] https://onlinelibrary.wiley.com/doi/abs/10.1046/j.1365-2036.2003.01567.x

to meet current cataloging rules. The most recent enhancement to Attachment 1A occurred on February 27, 2025, as shown in field 005 ("20250227"). I personally identified and retrieved the MARC record that is Attachment 1A.

51. Based on finding a copy of Exhibit 1009 in the National Library of Medicine and MARC record in its online library catalog attached as Attachment 1A, it is my opinion that the Terlevich article published in the journal titled *Alimentary Pharmacology & Therapeutics* and was publicly available on May 16, 2003, as shown on the publisher's website (¶ 46).

52. Attachment 1A includes an entry in field 060 ("W1 [$b] AL375"), a subject matter consistent with the National Library of Medicine classification system (analogous to the Dewey Decimal classification system). Attachment 1A also shows that Exhibit 1009 was catalogued with three descriptor terms reading "Digestive System Diseases $v periodical" (see Attachment 1B, National Library of Medicine subject heading D004066), "Pharmacology $v periodical" (see Attachment 1C, National Library of Medicine subject heading D010600), and "Therapeutics $v periodical" (see Attachment 1D, National Library of Medicine subject heading D013812) in the 650 fields.

53. As noted in the holdings information (362 field), the National Library of Medicine has received the journal titled *Alimentary Pharmacology & Therapeutics* since February 1987 and continues to receive the publication. In

view of the MARC record for Exhibit 1009, the Terlevich article was publicly available on May 16, 2003, because the serial title had been received, cataloged, and indexed in the National Library of Medicine and made part of its online catalog database.

54. Attached hereto as Attachment 1E is a true and correct copy of the MARC record for the journal titled *Alimentary Pharmacology & Therapeutics* 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 1E, 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 for this exhibit ("Date entered on file"), a cataloger at the Library of Congress created OCLC record number 15808072 on June 4, 1987, as shown in field 008 ("870604"). The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to Attachment 1E occurred on July 15, 2022, as shown in field 005 ("20220715"). I personally identified and retrieved the MARC record that is Attachment 1E. The "BLvl" entry in Attachment 1E is "s," which indicates that the journal titled *Alimentary Pharmacology & Therapeutics* is a serial publication. Field 310 of Attachment 1D reads "Six no. a year." Accordingly, the MARC record for Exhibit 1009 corresponds to the journal titled

Alimentary Pharmacology & Therapeutics from the time the serial title began and includes the date of the Trelevich article.

55. Attachment 1E includes an entry in field 050 ("RC799 $b .A45")—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 AL375"), a subject matter consistent with the National Library of Medicine classification system (analogous to the Dewey Decimal classification system). Attachment 1E also shows that Exhibit 1009 was catalogued with eleven descriptor terms reading "Digestive organs $x Diseases $x Treatment $v Periodicals" (see Attachment 1F, Library of Congress subject heading sh85037956, Attachment 1G, Library of Congress subject heading sh85134723, and Attachment 1H, Library of Congress subject heading sh85099890), "Digestive organs $x Effect of drugs on $v Periodicals" (see Attachment 1I, Library of Congress subject heading sh85037949, Attachment 1J, Library of Congress subject heading sh85039742, and Attachment 1H, Library of Congress subject heading sh85099890), "Gastrointestinal system $x Diseases $x Treatment $v Periodicals" (see Attachment 1K, Library of Congress subject heading sh85053488, Attachment 1G, Library of Congress subject heading sh85134723, and Attachment 1H, Library of Congress subject heading sh85099890), "Gastrointestinal system $x Effect of drugs on $v Periodicals" (see

Attachment 1L, Library of Congress subject heading sh85053487, Attachment 1J, Library of Congress subject heading sh85039742, and Attachment 1H, Library of Congress subject heading sh85099890), "Alimentary canal $v Periodicals" (see Attachment 1M, Library of Congress subject heading sh85003560 and Attachment 1H, Library of Congress subject heading sh85099890), "Pharmacology $v Periodicals" (see Attachment 1N, Library of Congress subject heading sh2008109178), "Pharmacology" (see Attachment 1O, Library of Congress subject heading sh85100599), "Therapeutics" (see Attachment 1P, Library of Congress subject heading sh85134723), "Digestive System Diseases $v periodical" (see Attachment 1B, National Library of Medicine subject heading D004066), "Pharmacology $v periodical" (see Attachment 1C, National Library of Medicine subject heading D010600), and "Therapeutics $v periodical" (see Attachment 1D, National Library of Medicine subject heading D013812) in the 650 fields. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 1E 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 June 4, 1987, the MARC record attached hereto as Attachment 1E 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.

56. WorldCat indicates that the journal titled *Alimentary Pharmacology & Therapeutics* as cataloged at the Library of Congress is currently available from 1,660 libraries.[27] In view of the above, this issue of the journal titled *Alimentary Pharmacology & Therapeutics* was publicly available on May 16, 2003, 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 National Library of Medicine. For these reasons, it is my opinion that Exhibit 1009 was published and accessible to the public on May 16, 2003.

B. Document 2: Exhibit 1010 ("Ogawa")

57. Exhibit 1010 is a copy of the journal article titled "Effects of Phosphate Buffer in Parenteral Drugs on Particle Formation from Glass Vials" by Toru Ogawa, Makoto Miyajima, Naoki Wakiyama, and Katsuhide Terada (hereafter "Ogawa"). The Ogawa article was published in Volume 61, Number 5 of the journal titled *Chemical and Pharmaceutical Bulletin* and was found in the Linda Hall Library of Science, Engineering & Technology (Kansas City, Missouri). The Ogawa article appears beginning on page 539 of this issue dated May 2013. Exhibit 1010 is a true and correct copy of the Ogawa article (pages

[27] https://search.worldcat.org/title/15808072

539-545). 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 Ogawa article was publicly available on July 16, 2013, as shown by the stamp on the cover (Exhibit 1010, 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. 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.

58. The Ogawa article is available through the National Library of Medicine[28] and through the digital repositories *ResearchGate*[29] and *Semantic Scholar*.[30]

59. Attached hereto as Attachment 2A is a true and correct copy of the MARC record for the journal titled *Chemical and Pharmaceutical Bulletin* from

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[28] https://pubmed.ncbi.nlm.nih.gov/23420583/

[29] https://www.researchgate.net/publication/235659200_Effects_of_Phosphate_Buffer_in_Parenteral_Drugs_on_Particle_Formation_from_Glass_Vials

[30] https://www.semanticscholar.org/paper/Effects-of-phosphate-buffer-in-parenteral-drugs-on-Ogawa-Miyajima/2978c407ff769a18f41456118d319c31c82a700a

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 2A occurred on September 6, 2023, as shown in field 005 ("20230906"). I personally identified and retrieved the MARC record that is Attachment 2A.

60. Based on finding a copy of Exhibit 1010 in the Linda Hall Library of Science, Engineering & Technology and MARC record in its online library catalog attached as Attachment 2A, it is my opinion that the Ogawa article published in the journal titled *Chemical and Pharmaceutical Bulletin* and was publicly available on July 16, 2013, as shown by the label on the cover (Exhibit 1010, 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.

61. Attachment 2A includes an entry in field 050 ("RS1.N56 $b A15")—as described above, a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system), an entry in field 060 ("W1 [$b] CH245N")—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 092 ("615.19 $b C517")—as described above, a subject matter classification number consistent with the Dewey Decimal classification system. Attachment 2A also shows that Exhibit 1010 was catalogued with a descriptor term reading "Pharmaceutical chemistry $v Periodicals" (see Attachment 2B, Library of Congress subject heading sh2008109165) in the 650 field.

62. As noted in the holdings information (362 field), the Linda Hall Library of Science, Engineering & Technology has received the journal titled *Chemical and Pharmaceutical Bulletin* since February 1958 and continues to receive the publication. In view of the MARC record for Exhibit 1010, the Ogawa article was publicly available on July 16, 2013, 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.

63. Attached hereto as Attachment 2C is a true and correct copy of the MARC record for the journal titled *Chemical and Pharmaceutical Bulletin* 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 "NYG," which means that the MARC record for this serial was cataloged at the New York State Library (Albany, New York). As can be seen in field 008 ("Date entered on file"), a cataloger at the New York

State Library created OCLC record number 6067231 on March 10, 1980 ("800310"). The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to Attachment 2C occurred on February 25, 2024, as shown in field 005 ("20240225"). 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 titled *Chemical and Pharmaceutical Bulletin* is a serial publication. Field 310 of Attachment 2C reads "Monthly." Accordingly, the MARC record for Exhibit 1010 corresponds to the journal titled *Chemical and Pharmaceutical Bulletin* from the time the serial title adopted the current title and includes the date of the Ogawa article.

64. Attachment 2C includes an entry in 050 ("RS1.N56 $b A15")—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 CH245N")—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 ("615.19 $b C517")—as described above, a subject matter classification number consistent with the Dewey Decimal classification system. Attachment 2C also shows that Exhibit 1010 was catalogued with two descriptor terms reading "Pharmaceutical chemistry $v Periodicals" (see Attachment 2B,

Library of Congress subject heading sh2008109165) and "Pharmacology" (see Attachment 1O, Library of Congress subject heading sh85100599) 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 March 10, 1980, 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.

65. WorldCat indicates that the journal titled *Chemical and Pharmaceutical Bulletin* as cataloged at the New York State Library is currently available from 663 libraries.[31] In view of the above, this issue of the journal titled *Chemical and Pharmaceutical Bulletin* was publicly available on July 16, 2013, because by these dates it had been cataloged and indexed at the New York State Library, made part of the OCLC bibliographic database, and received at the Linda Hall Library of Science, Engineering & Technology. For these reasons, it is my

[31] https://search.worldcat.org/title/6067231

opinion that Exhibit 1010 was published and accessible to the public on July 16, 2013.

C. Document 3: Exhibit 1013 ("Pharma-DF")

66. Attached hereto as Exhibit 1013 are excerpts from a three-volume set titled *Pharmaceutical Dosage Forms: Parenteral Medications*, 3rd edition, edited by Sandeep Nema and John D. Ludwig (hereafter "Pharma-DF") and issued by Informa Healthcare in 2010. The three volumes are titled *Formulation and Packaging* (volume 1), *Facility Design, Sterilization and Processing* (volume 2), and *Regulations, Validation and the Future* (volume 3). Exhibit 1013 is a true and correct copy of the cover, title page, copyright page, table of contents, and excerpts as held by the National Library of Medicine (Bethesda, Maryland). I obtained the following excerpts from the National Library of Medicine: Chapter 5, "Formulation Development of Small and Large Volume Injections" (pages 76-133) and Chapter 12, "Plastic Packaging for Parenteral Drug Delivery" (pages 305-323). The text in Exhibit 1013 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. Exhibit 1013 is a true and correct copy in a condition that creates no suspicion about its authenticity.

67. Attached hereto as Attachment 3A is a true and correct copy of the MARC record for this three-volume set from the National Library of Medicine

online catalog. The 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 the MARC record occurred on December 23, 2021, as shown in field 005 ("20211223"). I personally identified and retrieved the library catalog record which is Attachment 3A.

68. The International Standard Book Number (ISBN) on Exhibit 1013 (9781420086539) matches the ISBN in field 020 of Attachment 3A. Therefore, Exhibit 1013 is the three-volume set that the cataloger at the National Library of Medicine used to create the MARC record that is Attachment 3A. Therefore, the three-volume set titled *Pharmaceutical Dosage Forms: Parenteral Medications*, 3rd edition, was present and cataloged in the National Library of Medicine on July 20, 2010. It would have been able to be located by a person of ordinary skill in the art using the library catalog system and, thus, was publicly accessible as of this date.

69. Attached hereto as Attachment 3B is a true and correct copy of the MARC record for the three-volume set titled *Pharmaceutical Dosage Forms: Parenteral Medications*, 3rd edition, obtained from the OCLC bibliographic database. I personally identified and retrieved the MARC record that is Attachment 3B. As previously noted, the library that created the record is recorded

in field 040 with a unique library code. For Attachment 3B, that library code is "DNLM/DLC," which means that the MARC record for this book was created at the National Library of Medicine. As can be seen in field 008 ("Date entered on file") for this exhibit, a cataloger at the National Library of Medicine created OCLC record number 649795905 on July 20, 2010 ("100720"). The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to Attachment 3B occurred on February 13, 2025, as shown in the 005 field ("20250213"). I personally identified and retrieved the MARC record that is Attachment 3B.

70. Attachment 3B further includes an entry in field 050 ("RS201.P37 $b P48 2010")—as described above, this includes 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 ("WB 354")—as described above, this includes 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/.19"), a subject matter consistent with the Dewey Decimal classification system. Attachment 3B further includes ten descriptor terms reading "Parenteral solutions" (see Attachment 3C, Library of Congress subject heading sh85098003), "Pharmaceutical technology" (see Attachment 3D, Library of Congress subject

heading sh85100590), "Drugs $x Dosage" (see Attachment 3E, Library of Congress subject heading sh85039725), "Quality control" (see Attachment 3F, Library of Congress subject heading sh85109440), "Infusions, Parenteral $x standards" (see Attachment 3G, National Library of Medicine subject heading D007263), "Dosage Forms $x standards" (see Attachment 3H, National Library of Medicine subject heading D004304), "Drug Delivery Systems $x methods" (see Attachment 3I, National Library of Medicine subject heading D016503), "Pharmaceutical Preparations $x administration & dosage" (see Attachment 3J, National Library of Medicine subject heading D004364), "Quality Control" (see Attachment 3K, National Library of Medicine subject heading D011786), and "Technology, Pharmaceutical" (see Attachment 3L, National Library of Medicine subject heading D013678) in the 650 fields. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 3B 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. Further, as of July 20, 2010, the MARC record attached hereto as Attachment 3B was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that added this set of books to its collection, 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.

71. Attachment 3B indicates that the three-volume set titled *Pharmaceutical Dosage Forms: Parenteral Medications*, 3rd edition, as cataloged at the National Library of Medicine is currently available from 116 libraries.[32] In view of above, the three-volume set titled *Pharmaceutical Dosage Forms: Parenteral Medications*, 3rd edition, was publicly available on or shortly after July 20, 2010, because by that date it had been cataloged, indexed, and received at the National Library of Medicine and made part of the OCLC bibliographic database. For these reasons, it is my opinion that Exhibit 1013 was published and accessible to the public on or shortly after July 20, 2010.

D. Document 4: Exhibit 1014 ("Rowe")

72. Attached hereto as Exhibit 1014 are excerpts from a book titled *Handbook of Pharmaceutical Excipients*, 6th edition, edited by Raymond C. Rowe, Paul J. Sheskey, and Marian E. Quinn (hereafter "Rowe") and issued by Pharmaceutical Press in 2009. Exhibit 1014 is a true and correct copy of the cover, title page, copyright page, contents, and excerpts as held by the Ebling Health Sciences Library at the University of Wisconsin -- Madison. I obtained the following excerpts from the Ebling Health Sciences Library at the University of Wisconsin – Madison: "Sodium Chloride" (pages 637-640), "Sodium Phosphate,

[32] https://search.worldcat.org/title/649795905

Dibasic" (pages 656-658), and "Sodium Phosphate, Monobasic (pages 659-661). The text in Exhibit 1014 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. Exhibit 1014 is a true and correct copy in a condition that creates no suspicion about its authenticity.

73. Attached hereto as Attachment 4A is a true and correct copy of the MARC record for this book from the Ebling Health Sciences Library at the University of Wisconsin – Madison online catalog. The library ownership is indicated by the presence of the library's code ("GZH") in field 049. The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to the MARC record occurred on March 1, 2010, as shown in field 005 ("20100301"). I personally identified and retrieved the library catalog record which is Attachment 4A.

74. The International Standard Book Number (ISBN) on Exhibit 1014 (978-1-582-12135-2) matches the ISBN in the third field 020 of Attachment 4A. Therefore, Exhibit 1014 is the book that the cataloger in the Ebling Health Sciences Library at the University of Wisconsin – Madison used to create the MARC record that is Attachment 4A. Therefore, the book titled *Handbook of Pharmaceutical Excipients*, 6th edition, was present and cataloged in the Ebling Health Sciences Library at the University of Wisconsin – Madison on August 12,

2009. It would have been able to be located by a person of ordinary skill in the art using the library catalog system and, thus, was publicly accessible as of this date.

75. Attached hereto as Attachment 4B is a true and correct copy of the MARC record for the book titled *Handbook of Pharmaceutical Excipients*, 6th edition, obtained from the OCLC bibliographic database. I personally identified and retrieved the MARC record that is Attachment 4B. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 4B, that library code is "LVB," which means that the MARC record for this book was created at the Laval University Library (Quebec, Quebec, Canada). As can be seen in field 008 ("Date entered on file") for this exhibit, a cataloger at the Laval Univrsity Library created OCLC record number 473537495 on August 12, 2009 ("090812"). The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to Attachment 4B occurred on January 22, 2025, as shown in the 005 field ("20250122"). I personally identified and retrieved the MARC record that is Attachment 4B.

76. Attachment 4B further includes an entry in field 050 ("RS201.E87 $b H36 2009")—as described above, this includes 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 ("QV 735 $b H236

2009”)—as described above, this includes 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 (“615.19”), a subject matter consistent with the Dewey Decimal classification system. Attachment 4B further includes five descriptor terms reading “Excipients $v Handbooks, manuals, etc.” (see Attachment 4C, Library of Congress subject heading sh89002897 and Attachment 4D, Library of Congress genre heading gf2014026109), “Excipients” (see Attachment 4C, Library of Congress subject heading sh89002897), “Pharmaceutical technology” (see Attachment 3D, Library of Congress subject heading sh85100590), “Excipients” (see Attachment 4E, National Library of Medicine subject heading D005079), and “Technology, Pharmaceutical” (see Attachment 3L, National Library of Medicine subject heading D013678) in the 650 fields. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 4B 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. Further, as of August 12, 2009, the MARC record attached hereto as Attachment 4B was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that added this set of books to its collection, 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.

77. Attachment 4B indicates that the book titled *Handbook of Pharmaceutical Excipients*, 6th edition, as cataloged at the Laval University Library is currently available from 116 libraries.[33] In view of above, the three-volume set titled *Handbook of Pharmaceutical Excipients*, 6th edition, was publicly available on or shortly after August 12, 2009, because by that date it had been cataloged and indexed at the Laval University Library, 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 1014 was published and accessible to the public on or shortly after August 12, 2009.

E. Document 5: Exhibit 1019 ("Brunelli")

78. Exhibit 1019 is a copy of the journal article titled "Hypophosphatemia: Clinical Consequences and Management" by Steven M. Brunelli and Stanley Goldfarb (hereafter "Brunelli"). The Brunelli article was published in Volume 18, Number 7 of the *Journal of the American Society of Nephrology* and was found in the Albany College of Pharmacy and Health Sciences (Albany, New York). The Brunelli article appears beginning on page

[33] https://search.worldcat.org/title/473537495

1999 of this issue dated July 2007. Exhibit 1019 is a true and correct copy of the Brunelli article (pages 1999-2003). 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 Brunelli article was publicly available on July 1, 2007, as shown in the metrics section of the publisher's website.[34] 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.

79. The Brunelli article is available through the National Library of Medicine[35] and through the digital repository *Semantic Scholar*.[36]

80. Attached hereto as Attachment 5A is a true and correct copy of the metadata record for the *Journal of the American Society of Nephrology* from the Albany College of Pharmacy and Health Sciences online catalog. Library

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34 https://journals.lww.com/jasn/abstract/2007/07000/hypophosphatemia__clinical_consequences_and.6.aspx

35 https://pubmed.ncbi.nlm.nih.gov/17568018/

36 https://www.semanticscholar.org/paper/Hypophosphatemia%3A-clinical-consequences-and-Brunelli-Goldfarb/c14a172825d46956e7b034fcedd938f6eb0d1c4c

ownership is indicated by the presence of the library's name at the top of the page. I personally identified and retrieved the metadata record that is Attachment 5A.

81. Based on finding a copy of Exhibit 1019 in the Albany College of Pharmacy and Health Sciences and metadata record in its online library catalog attached as Attachment 5A, it is my opinion that the Brunelli article published in the *Journal of the American Society of Nephrology* and was publicly available on July 1, 2007, as indicated on the publisher's website.

82. Attachment 5A also shows that Exhibit 1019 was catalogued with four descriptor terms reading "Kidney Diseases" (see Attachment 5B, National Library of Medicine subject heading D007674), "Nephrology" (see Attachment 5C, National Library of Medicine subject heading D009398), "Nephrology $v Periodicals" (see Attachment 5D, Library of Congress subject heading sh85090860 and Attachment 1H, Library of Congress subject heading sh85099890), and "Kidneys $x Diseases $v Periodicals" (see Attachment 5E, Library of Congress subject heading sh85072261 and Attachment 1H, Library of Congress subject heading sh85099890) in the 650 fields.

83. As noted in the holdings information (362 field), the Albany College of Pharmacy and Health Sciences has received the *Journal of the American Society of Nephrology* since July 1990 and continues to receive the publication. In view of the metadata record for Exhibit 1019, the Brunelli article was publicly available on

July 1, 2007, because the serial title had been received, cataloged, and indexed in the Albany College of Pharmacy and Health Sciences and made part of its online catalog database.

84. Attached hereto as Attachment 5F is a true and correct copy of the MARC record for the *Journal of the American Society of Nephrology* 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 5F, 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 20484750 on October 13, 1989 ("891013"). The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to Attachment 5F occurred on March 7, 2023, as shown in field 005 ("20230307"). I personally identified and retrieved the MARC record that is Attachment 5F. The "BLvl" entry in Attachment 5F is "s," which indicates that the *Journal of the American Society of Nephrology* is a serial publication. Field 310 of Attachment 5F reads "Monthly, $b 2007-." Accordingly, the MARC record for Exhibit 1019 corresponds to the *Journal of the American Society of Nephrology* from the time the serial title began publication and includes the date of the Brunelli article.

85. Attachment 5F includes an entry in 050 ("RC902 $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 JO911BB")—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 5F also shows that Exhibit 1019 was catalogued with four descriptor terms reading "Kidney Diseases" (see Attachment 5B, National Library of Medicine subject heading D007674), "Nephrology" (see Attachment 5C, National Library of Medicine subject heading D009398), "Nephrology $v Periodicals" (see Attachment 5D, Library of Congress subject heading sh85090860 and Attachment 1H, Library of Congress subject heading sh85099890), and "Kidneys $x Diseases $v Periodicals" (see Attachment 5E, Library of Congress subject heading sh85072261 and Attachment 1H, Library of Congress subject heading sh85099890) in the 650 fields. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 5F 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 October 13, 1989, the MARC record attached hereto as Attachment 5F 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.

86. WorldCat indicates that the *Journal of the American Society of Nephrology* as cataloged at the Library of Congress is currently available from 872 libraries.[37] In view of the above, this issue of the *Journal of the American Society of Nephrology* was publicly available on July 1, 2007, because by these dates it had been cataloged and indexed at the Library of Congress, made part of the OCLC bibliographic database, and received at the Albany College of Pharmacy and Health Sciences. For these reasons, it is my opinion that Exhibit 1019 was published and accessible to the public on July 1, 2007.

F. Document 6: Exhibit 1026 ("Wadsworth")

87. Exhibit 1026 is a copy of the journal article titled "Phosphate Homeostasis in Critical Care" by R. L. Wadsworth and S. Siddiqui (hereafter "Wadsworth"). The Wadsworth article was published in Volume 16, Number 9 of the journal *BJA Education* and was found in the National Library of Medicine

[37] https://search.worldcat.org/title/20484750

(Bethesda, Maryland). The Wadsworth article appears beginning on page 305 of this issue dated September 2016. Exhibit 1026 is a true and correct copy of the Wadsworth article (pages 305-309). 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 Wadsworth article was publicly available on October 6, 2016, as shown by the label on the cover (Exhibit 1026, page 1 ("2016-10-06 07:01:41"). This label has the general appearance of designations (labels or date stamps) that libraries have long affixed to periodicals to show when an issue was received, verified, and checked. Exhibit 1026 was found within the custody of a library – a place where an authentic copy of this journal would likely be. Exhibit 1026 is a true and correct copy in a condition that creates no suspicion about its authenticity.

88. The Wadsworth article is available from the publisher, Oxford University Press,[38] and through the digital repository *ResearchGate*.[39]

89. Attached hereto as Attachment 6A is a true and correct copy of the MARC record for the journal *BJA Education* from the National Library of Medicine online catalog. Library ownership is indicated by the presence of the

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[38] https://pubmed.ncbi.nlm.nih.gov/17568018/

[39] https://www.researchgate.net/publication/303715871_Phosphate_homeostasis_in_critical_care

library's code (NLM") in field 935. I personally identified and retrieved the metadata record that is Attachment 6A.

90. Based on finding a copy of Exhibit 1026 in the National Library of Medicine and MARC record in its online library catalog attached as Attachment 6A, it is my opinion that the Wadsworth article published in the journal *BJA Education* and was publicly available on October 6, 2016, as indicated on the cover of Exhibit 1026.

91. Attachment 6A includes an entry in 060 ("W1 $b BJ102")—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 6A also shows that Exhibit 1026 was catalogued with three descriptor terms reading "Anesthesia" (see Attachment 6B, National Library of Medicine subject heading D0000758), "Critical Care" (see Attachment 6C, National Library of Medicine subject heading D003342), and "Pain Management" (see Attachment 6D, National Library of Medicine subject heading D059408) in the 650 fields.

92. As noted in the holdings information (362 field), the National Library of Medicine has received the journal *BJA Education* since June 2015 and continues

to receive the publication.[40] In view of the MARC record for Exhibit 1026, the Wadsworth article was publicly available on October 6, 2016, because the serial title had been received, cataloged, and indexed in the National Library of Medicine and made part of its online catalog database.

93. Attached hereto as Attachment 6E is a true and correct copy of the MARC record for the journal *BJA Education* 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 6E, that library code is "EQO," which means that the MARC record for this serial was cataloged at the Oxford University Library (Oxford, United Kingdom). As can be seen in field 008 ("Date entered on file"), a cataloger at the Oxford University Library created OCLC record number 911508475 on June 8, 2015 ("150608"). The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to Attachment 6E occurred on November 20, 2018, as shown in field 005 ("20181120"). I personally identified and retrieved the MARC record that is Attachment 6E. The "BLvl" entry in Attachment 6E is "s," which indicates that the journal *BJA Education* is a serial publication. Field 310 of

[40] The publication was originally titled *BJA CEPD reviews* (February 2001-December 2003) and adopted the title *Continuing Education in Anaesthesia, Critical Care and Pain* (February 2004-April 2015) and adopted the current title in June 2015.

Attachment 6E reads "Bimonthly." Accordingly, the MARC record for Exhibit 1026 corresponds to the journal *BJA Education* from the time the serial title adopted the current title and includes the date of the Wadsworth article.

94. Attachment 6E includes an entry in 060 ("W1 $b BJ102")—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 6E also shows that Exhibit 1026 was catalogued with seven descriptor terms reading "Anesthesia $v Periodicals" (see Attachment 6F, Library of Congress subject heading sh85004952 and Attachment 1H, Library of Congress subject heading sh85099890), "Anesthesiology $v Periodicals" (see Attachment 6G, Library of Congress subject heading sh85004972 and Attachment 1H, Library of Congress subject heading sh85099890), "Pain $x Treatment $v Periodicals" (see Attachment 6H, Library of Congress subject heading sh97003721 and Attachment 1H, Library of Congress subject heading sh85099890), "Critical care medicine $v Periodicals" (see Attachment 6I, Library of Congress subject heading sh2009122560), "Anesthesia" (see Attachment 6B, National Library of Medicine subject heading D0000758), "Critical Care" (see Attachment 6C, National Library of Medicine subject heading D003342), and "Pain Management" (see Attachment 6D, National Library of Medicine subject heading D059408) in the 650 fields. Thus, as of its cataloging, the publication

corresponding to the MARC record attached hereto as Attachment 6E 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 June 8, 2015, the MARC record attached hereto as Attachment 6E 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.

95. WorldCat indicates that the journal *BJA Education* as cataloged at the Library of Congress is currently available from 982 libraries.[41] In view of the above, this issue of the journal *BJA Education* was publicly available on October 6, 2016, because by these dates it had been cataloged and indexed at the University of Oxford Library, made part of the OCLC bibliographic database, and received at the National Library of Medicine. For these reasons, it is my opinion that Exhibit 1026 was published and accessible to the public on October 6, 2016.

G. Document 7: Exhibit 1030 ("Perks")

96. Exhibit 1030 is a copy of the journal article titled "Extended Stability of Sodium Phosphate Solutions in Polyvinyl Chloride Bags" by William Perks,

[41] https://search.worldcat.org/title/911508475

John Iazzetta, Pak Cheung Chan, Athina Brouzas, Shirley Law, and Scott E. Walker (hereafter "Perks"). The Perks article was published in Volume 70, Number 1 of the bilingual (English and French) *Canadian Journal of Hospital Pharmacy* and was found in the National Library of Medicine (Bethesda, Maryland). The Perks article appears beginning on page 7 of this issue dated January-February 2017. Exhibit 1030 is a true and correct copy of the Perks article (pages 7-12). 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 Perks article was publicly available on March 1, 2017, as shown on the publisher's website.[42] 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 no suspicion about its authenticity.

97. The Perks article is available from the publisher, the Canadian Society of Healthcare-Systems Pharmacy (CSHP) / Société canadienne de pharmacie dans les réseaux de la santé (SCPRS),[43] and through the National Library of Medicine.[44]

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

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[42] https://www.cjhp-online.ca/index.php/cjhp/article/view/1622

[43] *Ibid.*

[44] https://pmc.ncbi.nlm.nih.gov/articles/PMC5358065/

MARC record for the *Canadian Journal of Hospital Pharmacy* from the National Library of Medicine online catalog. Library ownership is indicated by the presence of the library's code (NLM") in the first field 935. I personally identified and retrieved the metadata record that is Attachment 7A.

99. Based on finding a copy of Exhibit 1030 in the National Library of Medicine and MARC record in its online library catalog attached as Attachment 7A, it is my opinion that the Perks article published in the *Canadian Journal of Hospital Pharmacy* and was publicly available on March 1, 2017, as indicated on the publisher's website.

100. Attachment 7A includes an entry in 060 ("W1 $b CA59")—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 1030 was catalogued with a descriptor term reading "Pharmacy Service, Hospital" (see Attachment 7B, National Library of Medicine subject heading D010607) in the 650 field.

101. As noted in the holdings information (362 field), the National Library of Medicine has received the *Canadian Journal of Hospital Pharmacy* since 1969

and continues to receive the publication.[45] In view of the MARC record for Exhibit 1030, the Perks article was publicly available on March 1, 2017, because the serial title had been received, cataloged, and indexed in the National Library of Medicine and made part of its online catalog database.

102. Attached hereto as Attachment 7C is a true and correct copy of the MARC record for the *Canadian Journal of Hospital Pharmacy* 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 "OCLCS," which means that the MARC record for this serial was cataloged at the OCLC Corporate Library (Dublin Ohio). As can be seen in field 008 ("Date entered on file"), a cataloger at the OCLC Corporate Library created OCLC record number 60622627 on June 14, 2005 ("050614"). The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to Attachment 7C occurred on February 23, 2025, as shown in field 005 ("20250223"). I personally identified and retrieved the MARC record that is Attachment 7C. The "BLvl" entry in Attachment 7C is "s," which indicates that the *Canadian Journal of Hospital Pharmacy* is a serial

[45] The publication was originally titled *The Hospital Pharmacist* (January 1948-December 1968) and adopted the current title in January 1969. The journal ceased producing a print edition in 2014 and is issued in a digital version.

publication. Accordingly, the MARC record for Exhibit 1030 corresponds to the *Canadian Journal of Hospital Pharmacy* from the time the serial title adopted the current title and includes the date of the Perks article.

103. Attachment 7C includes an entry in 050 ("RA960")—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 060 ("W1 $b CA59")—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 082 ("615.05")—as described above, a subject matter classification number consistent with the Dewey Decimal classification system. Attachment 7C also shows that Exhibit 1030 was catalogued with three descriptor terms reading "Hospitals $v Periodicals" (see Attachment 7D, Library of Congress subject heading sh2009126528), "Pharmacy $v Periodicals" (see Attachment 7E, Library of Congress subject heading sh2008109169), and "Pharmacy Service, Hospital" (see Attachment 7B, National Library of Medicine subject heading D010607) 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 four independently sufficient classifications: the field 050 entry, the field 060 entry, the field 082 entry, and the field 650 entries.

As of June 14, 2005, 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.

104. WorldCat indicates that the *Canadian Journal of Hospital Pharmacy* as cataloged at the OCLC Corporate Library is currently available from 468 libraries.[46] In view of the above, this issue of the *Canadian Journal of Hospital Pharmacy* was publicly available on March 1, 2017, because by these dates it had been cataloged and indexed at the OCLC Corporate Library, 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 on March 1, 2017.

VI. SUMMARY OF OPINIONS

105. 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:

[46] https://search.worldcat.org/title/60622627

Document	Publication	Publicly Available
Exhibit 1009	Terlevich, A., S. D. Hearing, W. W. Woltersdorf, C. Smyth, D. Reid, E. McCullagh, A. Day, and C. S. J. Probert. "Refeeding syndrome: effective and safe treatment with Phosphates Polyfusor." *Alimentary Pharmacology & Therapeutics*, vol. 17, issue 10 (15 May 2003): 1325-1329.	May 16, 2003
Exhibit 1010	Ogawa, Toru, Makoto Miyajima, Naoki Wakiyama, and Katsuhide Terada. "Effects of Phosphate Buffer in Parenteral Drugs on Particle Formation from Glass Vials." *Chemical and Pharmaceutical Bulletin*, vol. 61, no. 5 (May 2013): 539-545.	July 16, 2013
Exhibit 1013	*Pharmaceutical Dosage Forms: Parenteral Medications*, edited by Sandeep Nema and John D. Ludwig. 3rd ed. 3 vols. New York: Informa Healthcare, 2010.	July 20, 2010
Exhibit 1014	*Handbook of Pharmaceutical Excipients*, edited by Raymond C. Rowe, Paul J. Sheskey, and Marian E. Quinn. 6th ed. London: Greyslake, IL: Pharmaceutical Press; American Pharmacists Association, 2009.	August 12, 2009
Exhibit 1019	Brunelli, Steven M., and Stanley Goldfarb. "Hypophosphatemia: Clinical Consequences and Management." *Journal of the American Society of Nephrology*, vol. 18, no. 7 (July 2007): 1999-2003.	July 1, 2007
Exhibit 1026	Wadsworth, R. L., and S. Siddiqui. "Phosphate Homeostasis in Critical Care." *BJA Education*, vol. 16, no. 9 (September 2016): 305-309.	October 6, 2016
Exhibit 1030	Perks, William, John Iazzetta, Pak Cheung Chan, Athina Brouzas, Shirley Law, and Scott E Walker. "Extended Stability of Sodium Phosphate Solutions in Polyvinyl Chloride Bags." C*anadian Journal of Hospital Pharmacy,* vol. 70, no. 1 (January–February 2017): 7-12.	March 1, 2017

106. 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.

107. 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: April 1, 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.

Hall-Ellis, Sylvia D., with Ann Jerabek, and Merrie W. Valliant. *Contemporary Cataloging: A Handbook for Practitioners and Students.* Open access text. Athens, GA: University of Georgia System Regents, 2011. 767 p.

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.

Hall-Ellis, Sylvia D. with J. Ann Jerabek. *Grants for School Libraries.* Westport, Conn.: Libraries Unlimited, 2003. 197 p.

Hall-Ellis, Sylvia D., Doris Meyer, Frank W. Hoffmann, with J. Ann Jerabek. *Grant Writing for Small Libraries and School Library Media Centers.* Boulder, Colo.: NetLibrary, 2001. 173 p.

Hall-Ellis, Sylvia D., Doris Meyer, Frank W. Hoffmann, with J. Ann Jerabek. *Grant Writing for Small Libraries and School Library Media Centers.* Englewood, Colo: Libraries Unlimited, 2000. 173 p.

Editor-reviewed Chapters (Completed and In Progress)

Hall-Ellis, Sylvia D. "Prepared to Lead: Talent, Skills, and Competencies." In *Telling the Technical Services Story*. Chicago, IL: American Library Association, 2020. Program Presentation for Re-Accreditation by the American Library Association, School of Information, San Jose State University, 2022.

Hall-Ellis, Sylvia D. "Grant Writing and Sponsored Research Funding for Academic Librarians." In *The New Librarianship.* Vol. 4. Bradford Lee Eden, ed. New York: Scarecrow Press, 2015. (pp. 163-174)

Hall-Ellis, Sylvia D. "Organizing Information: Technical Services." In *Information Services Today: An Introduction.* Sandra Hirsch, ed. Lantham, Md.: Rowman and Littlefield, 2015. (pp. 139-148)

Hall-Ellis, Sylvia D. "Metadata, MARC, and More." In *Rethinking Technical Services, Considering Our Profession and Ourselves: What's the Future of Our Profession?* Mary Beth Weber, ed. Lantham, Md.: Rowman and Littlefield, 2015. (pp. 29-55)

Hall-Ellis, Sylvia D., ed. "Contingent Faculty: Non-Tenure Track Faculty Series." In the *Faculty Personnel Guidelines Relating to Appointment, Promotion, and Tenure.* November 2011. Denver, Colo.: University of Denver, 2011. 42 p.

Hall-Ellis, Sylvia D., ed. "Standard VII: Information Resources." In the *Sturm College of Law Self-Study Presentation for Accreditation by the American Bar Association.* Denver, Colo.: University of Denver, Sturm College of Law, 2011. 20 p.

Hall-Ellis, Sylvia D. "Applying for Grants from Foundations, Corporations, or Government." In *The Volunteers' Guide to Fundraising: Raise Money for Your School Team, Library or Community Group.* 1st ed. Ilona M. Bray, ed. Berkeley, Calif.: Nolo, 2011. (pp. 1-38 on accompanying disc)

Hall-Ellis, Sylvia D., ed. "Standard III: The Faculty." In the *Library and Information Science Program Self-Study Document for Accreditation by the American Library Association.* Denver, Colo.: University of Denver, Morgridge College of Education, 2010. 22 p.

Hall-Ellis, Sylvia D. "Library and Information Science Programs and Education for Catalogers and Metadata Specialists: Challenges for the Twenty-first Century." In *Conversations with Catalogers in the Twenty-First Century.* Elaine R. Sanchez, ed. Santa Barbara, Calif.: ABC-Clio, 2010. (pp. 226-254)

Hall-Ellis, Sylvia D., ed. "Standard III: The Faculty." In the *Library and Information Science Program Self-Study Document for Accreditation by the American Library Association.* Denver, Colo.: University of Denver, College of Education, 2003. 15 p.

Lesesne, Teri S. and Sylvia D. Hall-Ellis. "The Selection, Evaluation, and Integration of Culturally Authentic Texts: A Case for Making the Online Catalog Reflect Parallel Cultures." In *Literacy: Traditional, Cultural, Technological.* Pittsburgh, Pa.: International Association of School Librarianship, 1995. (pp. 110-113)

Lesesne, Teri S. and Sylvia D. Hall-Ellis. *The Selection, Evaluation, and Integration of Culturally Authentic Texts: A Case for Making the Online Catalog Reflect Parallel Cultures.* In *Conference Proceedings* of the 23rd Annual International Association of School Librarianship, Pittsburgh, Pennsylvania, July 17-22, 1994. ERIC Document ED374816. 17 p.

Hall-Ellis, Sylvia D. "Curriculum Folio for School Library Media Specialist Programs." In the *National Council for Accreditation of Teacher Education Self-Study for Sam Houston State University.* Huntsville, Tex.: Sam Houston State University, College of Education and Applied Science, 1994. 25 p.

Bruntjen, Scott and Sylvia D. Hall. "Attempting to Automate: Lessons Learned Over Five Years." In *Advances in Library Administration*. Volume 4. Weston, Conn.: JAI Press, 1985. (pp. 177-192)

Peer-Reviewed Journal Articles (Completed and In Progress)

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.

Hall-Ellis, Sylvia D. "Descriptive Impressions of Entry-Level Cataloger and Metadata Specialists Positions, 2000-2016: Reflections and Trends." To be submitted to *Library Resources and Technical Services.* In progress.

Hall-Ellis, Sylvia D. "Competencies for Metadata and Cataloging Leaders: What Employers Expect as Reflected in Position Descriptions, 2000-2016." *Cataloging & Classification Quarterly.* In progress.

Hall-Ellis, Sylvia D. "Stackable Micro-credentials – A Framework for the Future." *The Bottom Line 29*, no. 4 (April 2016), http://www.emeraldinsight.com/doi/pdfplus/10.1108/BL-02-2016-0006
Ellis, Sylvia D. "Succession Planning and Staff Development – A Winning Combination." *The Bottom Line*, 28 no. 3 (May 2015): 95-98.

Hall-Ellis, Sylvia D. "Succession Planning and Staff Development – A Winning Combination." *The Informed Librarian Online* (September 2015), http://www.informedlibrarian.com/featuredArticle.cfm?FILE=succession_1509.pdf

Hall-Ellis, Sylvia D. "Nudges and Decision Making: A Winning Combination." *The Bottom Line 28*, no. 4 (July 2015): 133-136.

Hall-Ellis, Sylvia D. "Succession Planning and Staff Development – A Winning Combination." *The Bottom Line 28*, no. 3 (May 2015): 95-98.

Hall-Ellis, Sylvia D. "Metadata Competencies for Entry-Level Positions: What Employers Expect as Reflected in Position Descriptions, 2000-2013." *Journal of Library Metadata 15*, no. 2 (June 2015): 102-134.

Hall-Ellis, Sylvia D. "Onboarding to Improve Library Retention and Productivity." *The Bottom Line 27*, no. 4 (October 2014).

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

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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]

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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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001 996311853406676
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022 ##$a1365-2036 $9EN $7(Electronic)
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246 2#$0ALIMENT PHARMACOL THER $9n
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260 3#$aOxford : $bWiley-Blackwell
300 ##$av. : $bill.
310 ##$aMonthly, $b1998-
321 ##$aSix no. a year, $b1987-1997
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337 ##$aunmediated $bn $2rdamedia
338 ##$avolume $bnc $2rdacarrier
362 0#$aVol. 1, no. 1 (Feb. 1987)-
500 ##$aTitle from cover.
510 1#$91 $aMEDLINE $bv1n1,Feb. 1987-
510 1#$91 $aPubMed $bv1n1,Feb. 1987-
510 1#$aIndex medicus
530 ##$aAlso issued online.
583 ##$3Vol. 5, no. 1 (1991) $c19920824 $fNotice published $lPrinted on acid-free paper
650 #2$aDigestive System Diseases $xdrug therapy
650 #2$aPharmacology
650 #2$aTherapeutics
655 #2$aPeriodical
856 4#$uhttp://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1365-2036
911 ##$aElectronic and print, print canceled 2017
914 ##$aPortico $bCurrent to 2025 as of 20250227 $cISSN_02692813
935 ##$a(DNLM)631185-nlmdb
995 ##$aAUTH $b19870625 $cREV $d20250227
996 ##$aNOTCNSR $b20000101
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035 ##$a(DNLM)SR0057930(s)
035 ##$a(OCoLC)15808072

Attachment 1B

Digestive System Diseases MeSH Descriptor Data 2025

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Digestive System Diseases
Tree Number(s)
C06
Unique ID
D004066
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D004066
Annotation
general or unspecified; prefer specifics; refers to all organs of digestive tract: do not confuse with GASTROINTESTINAL DISEASES; /diag: consider also DIAGNOSTIC TECHNIQUES, DIGESTIVE SYSTEM
Scope Note
Diseases in any part of the GASTROINTESTINAL TRACT or the accessory organs (LIVER; BILIARY TRACT; PANCREAS).
Entry Version
DIGESTIVE SYSTEM DIS
Entry Term(s)
Digestive System Disorders
Hepatobiliary Diseases
Hepatobiliary Disorders
Previous Indexing
Gastrointestinal Diseases (1966-1979)
Public MeSH Note
1980
History Note
1980
Date Established
1980/01/01
Date of Entry
1999/01/01
Revision Date
2019/07/01

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HHS Vulnerability Disclosure

NLM Support Center
Accessibility
Careers

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Attachment 1C

Pharmacology MeSH Descriptor Data 2025

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Pharmacology
Tree Number(s)
H01.158.703
H02.628
Unique ID
D010600
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D010600
Annotation
the discipline (education, history, etc) only; use PHARMACOLOGICAL AND TOXICOLOGICAL PHENOMENA or specifics treed under it for the properties of drugs and their metabolism and interactions; the qualifier /pharmacology is available for use with drugs and chemicals; methods: consider TECHNOLOGY, PHARMACEUTICAL
Scope Note
The study of the origin, nature, properties, and actions of drugs and their effects on living organisms.
Entry Version
PHARMACOL
NLM Classification #
QV 21
See Also
Pharmaceutical Preparations
Date Established
1966/01/01
Date of Entry
1999/01/01
Revision Date
2017/07/13

page delivered in 0.165s

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NLM Support Center
Accessibility
Careers

NLM | NIH | HHS | USA.gov

Attachment 1D

Therapeutics MeSH Descriptor Data 2025

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Therapeutics
Tree Number(s)
E02
Unique ID
D013812
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D013812
Annotation
avoid: too general: prefer /ther with diseases
Scope Note
Procedures concerned with the remedial treatment or prevention of diseases.
Entry Version
THER
Entry Term(s)
Therapy
Treatment
Date Established
1966/01/01
Date of Entry
1999/01/01
Revision Date
2015/06/29

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Bethesda, MD 20894

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HHS Vulnerability Disclosure

NLM Support Center
Accessibility
Careers

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Attachment 1E

Bibliographic Record - OCLC Number: 15808072

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	15808072	
005	20220715133115.4	
008	Date Entered on File	'870604'
	Type of Date/Publication Status	'c' - Continuing resource currently published
	Date1/Beginning Date of Publication	'1987'
	Date2/Ending Date of Publication	'9999'
	Place of Publication, Production, or Execution Code	'enk' - England
	Frequency	'b' - Bimonthly
	Regularity	'x' - Completely irregular
	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

010 sn 87026283

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016 7 8707234 **$2** DNLM

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022 0269-2813 **$l** 0269-2813 **$y** 0953-0673 **$2** z

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032 004336 **$b** USPS

037 **$b** Blackwell Scientific Publications Ltd., Osney Mead, Oxford OX2 0EL

042 pcc **$a** nsdp

050 1 4 RC799 **$b** .A45

Amneal Exhibit 1024, Page 124 of 272
Amneal Pharmaceuticals, Inc. v. Nivagen Pharmaceuticals, Inc.
IPR2025-00731

060 0 0 W1 **$b** AL375
210 0 Aliment. pharmacol. ther.
222 0 Alimentary pharmacology & therapeutics
245 0 0 Alimentary pharmacology & therapeutics.
246 3 Alimentary pharmacology and therapeutics
246 1 3 AP & T **$f** <Jan. 2005->
260 [Oxford] : **$b** Blackwell Scientific Publications, **$c** ©1987-
300 volumes : **$b** illustrations
310 Six no. a year
336 text **$b** txt **$2** rdacontent
337 unmediated **$b** n **$2** rdamedia
338 volume **$b** nc **$2** rdacarrier
362 0 Vol. 1, no. 1 (Feb. 1987)-
500 Title from cover.
510 2 Chemical abstrcts **$x** 0009-2258 **$b** 1987-
525 Has occasional supplement.
530 Also issued online.
588 Latest issue consulted: Vol. 21, no. 9 (1st May 2005).
650 0 Digestive organs **$x** Diseases **$x** Treatment **$v** Periodicals.
650 0 Digestive organs **$x** Effect of drugs on **$v** Periodicals.
650 0 Gastrointestinal system **$x** Diseases **$x** Treatment **$v** Periodicals.
650 0 Gastrointestinal system **$x** Effect of drugs on **$v** Periodicals.
650 0 Alimentary canal **$v** Periodicals.
650 0 Pharmacology **$v** Periodicals.
650 0 Pharmacology.
650 0 Therapeutics.
650 2 Digestive System Diseases **$x** drug therapy
650 2 Pharmacology
650 2 Therapeutics
650 6 Appareil digestif **$x** Maladies **$x** Traitement **$v** Périodiques.
650 6 Appareil digestif, Effets des médicaments sur l' **$v** Périodiques.
650 6 Tractus gastro-intestinal **$x** Maladies **$x** Traitement **$v** Périodiques.
650 6 Tractus gastro-intestinal, Effet des médicaments sur le **$v** Périodiques.
650 6 Tube digestif **$v** Périodiques.
650 6 Pharmacologie **$v** Périodiques.
650 6 Appareil digestif **$x** Effets des médicaments sur **$v** Périodiques.
650 6 Tractus gastro-intestinal **$x** Effets des médicaments sur **$v** Périodiques.
650 6 Pharmacologie.
650 6 Thérapeutique.
650 7 pharmacology. **$2** aat
650 7 Therapeutics. **$2** fast **$0** (OCoLC)fst01149694
650 7 Alimentary canal. **$2** fast **$0** (OCoLC)fst00805328
650 7 Digestive organs **$x** Diseases **$x** Treatment. **$2** fast **$0** (OCoLC)fst00893607
650 7 Digestive organs **$x** Effect of drugs on. **$2** fast **$0** (OCoLC)fst00893608

Amneal Exhibit 1024, Page 125 of 272
Amneal Pharmaceuticals, Inc. v. Nivagen Pharmaceuticals, Inc.
IPR2025-00731

650 7 Gastrointestinal system **$x** Diseases **$x** Treatment. **$2** fast **$0** (OCoLC)fst00938882
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655 4 Fulltext.
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655 4 Internet Resources.
655 7 Periodicals. **$2** fast **$0** (OCoLC)fst01411641
770 1 **$t** Alimentary pharmacology & therapeutics symposium series **$x** 1746-6334 **$w** (DLC) 2005244006 **$w** (OCoLC)61717878
776 0 8 **$i** Online version: **$t** Alimentary pharmacology & therapeutics (Online) **$x** 1365-2036 **$w** (DLC) 00242423 **$w** (OCoLC)45622622
850 DNLM **$a** MiU **$a** MoSW-M **$a** NjR
856 4 1 **$u** http://firstsearch.oclc.org **$z** Address for accessing the journal using authorization number and password through OCLC FirstSearch Electronic Collections Online. Subscription to online journal required for access to abstracts and full text
856 4 1 **$u** http://firstsearch.oclc.org/journal=0269-2813;screen=info;ECOIP **$z** Address for accessing the journal from an authorized IP address through OCLC FirstSearch Electronic Collections Online. Subscription to online journal required for access to abstracts and full text
856 4 1 **$u** http://www.blackwell-synergy.com/issuelist.asp?journal=apt
891 3 3 **$9** 853 **$8** 1 **$a** v. **$b** no. **$u** 06 **$v** r **$i** (year) **$j** (month)
891 4 0 **$9** 863 **$8** 1 **$a** <2> **$b** <1>- **$i** <1988> **$j** <Feb.>- **$x** provisional
891 3 3 **$9** 853 **$8** 2 **$a** v. **$b** no. **$u** 12 **$v** r **$i** (year) **$j** (month) **$w** m **$x** 01
891 4 0 **$9** 863 **$8** 2 **$a** <12>- **$i** <1998>- **$x** provisional
029 1 AU@ **$b** 000005456609
029 1 NLM **$b** 8707234
029 1 NZ1 **$b** 4284555
029 1 UKMGB **$b** 009827249
029 1 ZWZ **$b** 039325415

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MARC Display | Labelled Display

LC control no.: sh 85037956
LCCN Permalink: https://lccn.loc.gov/sh85037956
HEADING: Digestive organs Diseases

000 00544cz a2200205n 450
001 4689989
005 20120323072232.0
008 860211i| anannbabn |a ana
010 __ |**a** sh 85037956
035 __ |**a** (DLC)sh 85037956
035 __ |**a** (DLC)36674
040 __ |**a** DLC |**c** DLC |**d** DLC
053 _0 |**a** RC799 |**b** RC869
150 __ |**a** Digestive organs |**x** Diseases
450 __ |**a** Alimentary canal |**x** Diseases
450 __ |**a** Digestive system diseases
550 __ |**a** Gastroenterology
670 __ |**a** MESH |**b** (Digestive system diseases)
906 __ |**t** 9237 |**u** te04 |**v** 0
953 __ |**a** xx00 |**b** ta25

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Attachment 1G

LC control no.: sh 85134723
LCCN Permalink: https://lccn.loc.gov/sh85134723
HEADING: Therapeutics

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001 4783400
005 20120328081727.0
008 860211i| anannbabn |a ana
010 __ |**a** sh 85134723
035 __ |**a** (DLC)sh 85134723
035 __ |**a** (DLC)6354634
035 __ |**a** (DLC)sp 85134723
035 __ |**a** (DLC)319968
040 __ |**a** DLC |**c** DLC |**d** DLC
053 _0 |**a** RM
150 __ |**a** Therapeutics
360 __ |**i** subdivision |**a** Treatment |**i** under individual diseases and types of diseases, e.g. |**a** Cancer--Treatment; Leprosy--Treatment; |**i** also subdivision |**a** Diseases--Treatment |**i** under individual organs and regions of the body and under individual animals and groups of animals, e.g. |**a** Heart--Diseases--Treatment; Cattle--Diseases--Treatment; Fishes--Diseases--Treatment; |**i** and subdivision |**a** Therapeutic use |**i** under topical headings for discussions of their use in treating disease, e.g. |**a** Copper--Therapeutic use; Corn--Therapeutic use; X-rays--Therapeutic use
450 __ |**a** Medical treatment
450 __ |**a** Therapy
450 __ |**a** Treatment of diseases
450 __ |**a** Treatments for diseases
550 __ |**w** g |**a** Clinical medicine
670 __ |**a** MESH |**b** (Therapeutics)
670 __ |**a** LC database, Sept. 24, 2004 |**b** (titles: medical treatment)
906 __ |**t** 0442 |**u** te03 |**v** 0
953 __ |**a** xx00 |**b** td04

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Attachment 1H

LC control no.: sh 85099890
LCCN Permalink: https://lccn.loc.gov/sh85099890
HEADING: Periodicals

000 01324cz a2200337n 450
001 4749694
005 20120717060125.0
008 860211 | anannbabn |b ana
010 __ |**a** sh 85099890
035 __ |**a** (DLC)sh 85099890
035 __ |**a** (DLC)6226910
035 __ |**a** (DLC)sp 85099890
035 __ |**a** (DLC)314952
040 __ |**a** DLC |**c** DLC |**d** DLC
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 1I

LC control no.: sh 85037949
LCCN Permalink: https://lccn.loc.gov/sh85037949
HEADING: Digestive organs

000 00873cz a2200265n 450
001 4689984
005 20120323072232.0
008 860211|| anannbabn |a ana
010 __ |**a** sh 85037949
035 __ |**a** (DLC)sh 85037949
035 __ |**a** (DLC)7146861
035 __ |**a** (DLC)sp 85037949
035 __ |**a** (DLC)357311
040 __ |**a** DLC |**c** DLC |**d** DLC |**d** CoU-DA
053 _0 |**a** QL856 |**b** QL867 |**c** Comparative anatomy
053 _0 |**a** QM301 |**b** QM35
150 __ |**a** Digestive organs
360 __ |**i** subdivision |**a** Digestive organs |**i** under individual animals and groups of animals, e.g. |**a** Fishes--Digestive organs
450 __ |**a** Alimentary system
450 __ |**a** Digestive system
550 __ |**w** g |**a** Organs (Anatomy)
670 __ |**a** Smith, Margaret E. The digestive system, 2001.
670 __ |**a** MeSH browser, Apr. 19, 2007 |**b** (Digestive System, Entry term: Alimentary System)
906 __ |**t** 0719 |**u** te04 |**v** 0
953 __ |**a** xx00 |**b** ym83

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Attachment 1J

LC control no.: sh 85039742
LCCN Permalink: https://lccn.loc.gov/sh85039742
HEADING: Drugs Physiological effect

000 01019cz a2200253n 450
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005 20120323072521.0
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010 __ |**a** sh 85039742
035 __ |**a** (DLC)sh 85039742
035 __ |**a** (DLC)38408
035 __ |**a** (DLC)7287038
035 __ |**a** (DLC)sp 85039742
035 __ |**a** (DLC)364845
040 __ |**a** DLC |**c** DLC |**d** DLC
053 _0 |**a** RM300 |**b** RM666
150 __ |**a** Drugs |**x** Physiological effect
360 __ |**i** subdivision |**a** Effect of drugs on |**i** under individual organs and regions of the body, and individual animals and groups of animals, e.g. |**a** Foot--Effect of drugs on; Heart--Effect of drugs on; Fishes--Effect of drugs on; |**i** and subdivision |**a** Receptors--Effect of drugs on |**i** under individual chemicals and groups of chemicals, e.g. |**a** Insulin--Receptors--Effect of drugs on
450 __ |**a** Drug effects
450 __ |**a** Pharmacodynamics
550 __ |**w** g |**a** Pharmacology
670 __ |**a** Katzung, B.G. Basic and clinical pharmacology, 1987: |**b** 3-e, p. 1.
906 __ |**t** 0740 |**u** te04 |**v** 0
953 __ |**a** xx00 |**b** ta25

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Attachment 1K

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LC control no.: sh 85053488
LCCN Permalink: https://lccn.loc.gov/sh85053488
HEADING: Gastrointestinal system Diseases

000 00383cz a2200157n 450
001 4705010
005 20110729105949.0
008 860211i| anannbabn |n ana
010 __ |**a** sh 85053488
035 __ |**a** (DLC)sh 85053488
035 __ |**a** (DLC)51695
040 __ |**a** DLC |**c** DLC |**d** DLC
053 _0 |**a** RC816 |**b** RC866
150 __ |**a** Gastrointestinal system |**x** Diseases
906 __ |**t** 8554 |**u** ---- |**v** 0
953 __ |**a** xx00 |**b** ta25

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Attachment 1L

LC control no.: sh 85053487
LCCN Permalink: https://lccn.loc.gov/sh85053487
HEADING: Gastrointestinal system

000 02145cz a2200361n 450
001 4705009
005 20201216060014.0
008 860211|| anannbabn |a ana
010 __ |**a** sh 85053487
035 __ |**a** (DLC)sh 85053487
035 __ |**a** (DLC)6855602
035 __ |**a** (DLC)sp 85053487
035 __ |**a** (DLC)343252
040 __ |**a** DLC |**c** DLC |**d** DLC |**d** WaU
053 _0 |**a** QM341 |**b** QM345 |**c** Anatomy
053 _0 |**a** QP151 |**b** QP156 |**c** Physiology
150 __ |**a** Gastrointestinal system
360 __ |**i** subdivision |**a** Gastrointestinal system |**i** under individual animals and groups of animals, e.g. |**a** Fishes--Gastrointestinal system
450 __ |**a** Gastro-intestinal system
450 __ |**a** Gastrointestinal tract
450 __ |**a** GI tract
450 __ |**a** Tract, Gastrointestinal
450 __ |**a** Tract, GI
550 __ |**w** g |**a** Alimentary canal
550 __ |**w** g |**a** Digestive organs
670 __ |**a** LC database, Nov. 5, 1998 |**b** (titles: gastro-intestinal)
670 __ |**a** Functional disorders of the digestive tract, c1983.
670 __ |**a** MeSH |**b** (Gastrointestinal Tract. UF Digestive Tract, GI Tract. Previous indexing: Gastrointestinal System. Generally refers to the digestive structures stretching from the Mouth to Anus, but does not include the accessory glandular organs (Liver; Biliary Tract; Pancreas))
670 __ |**a** Horton, J. Mechanical properties of alimentary tissues in teleostean fishes, 2020: |**b** abstr. (These studies provide insight into the mechanistic and developmental variations in mechanical properties along the gastrointestinal tract and over ontogeny. My results also corroborate the suggestion that the proximal section of the intestinal

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tract acts as a "stomach" in these agastric fishes. These data contribute to our knowledge of the mechanical properties of alimentary tissues and guide future studies of factors that may not only influence possible selective pressures driving the evolution of intestinal tissues but also the evolution of teleostean fishes) p. 15 (review of durophagy and the gastrointestinal tract in teleostean fishes)

906 __ |**t** 0626 |**u** te04 |**v** 0

910 __ |**a** Proposal saved by tc03 on 10/08/2020 at 15:15:00

953 __ |**a** xx00 |**b** ym84

906 __ |**t** 2011 |**v** 0

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Attachment 1M

LC control no.: sh 85003560
LCCN Permalink: https://lccn.loc.gov/sh85003560
HEADING: Alimentary canal

000 01022cz a2200277n 450
001 4656756
005 20120320084328.0
008 860211|| anannbabn |a ana
010 __ |**a** sh 85003560
035 __ |**a** (DLC)sh 85003560
035 __ |**a** (DLC)6905761
035 __ |**a** (DLC)sp 85003560
035 __ |**a** (DLC)345280
040 __ |**a** DLC |**c** DLC |**d** DLC
053 _0 |**a** QL856 |**b** QL863 |**c** Comparative anatomy
053 _0 |**a** QM301 |**b** QM345 |**c** Human anatomy
150 __ |**a** Alimentary canal
450 __ |**a** Alimentary tract
450 __ |**a** Canalis alimentarius
450 __ |**a** Digestive tract
450 __ |**a** Tract, Alimentary
450 __ |**a** Tract, Digestive
550 __ |**w** g |**a** Digestive organs
670 __ |**a** Inter. dict. med. biol. |**b** (Tract, digestive tract: canalis alimentarius; canalis alimentarius: that part of the digestive apparatus that includes the tubular passage of the esophagus, the stomach, the small intestine, and the large intestine. Also called alimentary canal, alimentary tract, digestive tract)
906 __ |**t** 0632 |**u** te04 |**v** 0
953 __ |**a** xx00 |**b** ta25

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LC control no.: sh2008109178
LCCN Permalink: https://lccn.loc.gov/sh2008109178
HEADING: Pharmacology Periodicals

000 00486cz a2200169n 450
001 7461562
005 20110729160627.0
008 080305|| anannbabn |n ana
010 __ |**a** sh2008109178
035 __ |**a** (DLC)385340
035 __ |**a** (DLC)sh2008109178
040 __ |**a** DLC |**b** eng |**c** DLC
150 __ |**a** Pharmacology |**v** Periodicals
667 __ |**a** Record generated for validation purposes.
670 __ |**a** Work cat.: Journal des sciences pharmaceutiques et biologiques, 1999-
906 __ |**t** 8888 |**u** te00 |**v** 0
953 __ |**a** te00

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Attachment 1O

LC control no.: sh 85100599
LCCN Permalink: https://lccn.loc.gov/sh85100599
HEADING: Pharmacology

000 01163cz a2200277n 450
001 4750382
005 20120327100210.0
008 860211i| anannbabn |b ana
010 __ |**a** sh 85100599
035 __ |**a** (DLC)sh 85100599
035 __ |**a** (DLC)97067
040 __ |**a** DLC |**c** DLC |**d** DLC
053 _0 |**a** RM300 |**b** RM671.5
150 __ |**a** Pharmacology
360 __ |**i** subdivision |**a** Effect of drugs on |**i** under individual organs, regions, and tissues of the body, e.g. |**a** Foot--Effect of drugs on; Heart--Effect of drugs on; |**i** and subdivision |**a** Physiological effect |**i** under individual chemicals and groups of chemicals, e.g. |**a** Copper--Physiological effect
450 __ |**a** Drug effects
450 __ |**a** Medical pharmacology
550 __ |**w** g |**a** Medical sciences
550 __ |**a** Chemicals |**x** Physiological effect
550 __ |**a** Chemotherapy
550 __ |**a** Drugs
550 __ |**a** Pharmacy
680 __ |**i** Here are entered works on the science of drugs, including their chemistry, actions, and effects. Works on the study of the properties, preparation, and uses of drugs from natural sources are entered under |**a** Pharmacognosy.
681 __ |**i** Note under |**a** Pharmacognosy
906 __ |**t** 9128 |**u** fk04 |**v** 0
953 __ |**a** xx00 |**b** fg04

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Attachment 1P

LC control no.: sh 85134723
LCCN Permalink: https://lccn.loc.gov/sh85134723
HEADING: Therapeutics

000 01250cz a2200277n 450
001 4783400
005 20120328081727.0
008 860211i| anannbabn |a ana
010 __ |**a** sh 85134723
035 __ |**a** (DLC)sh 85134723
035 __ |**a** (DLC)6354634
035 __ |**a** (DLC)sp 85134723
035 __ |**a** (DLC)319968
040 __ |**a** DLC |**c** DLC |**d** DLC
053 _0 |**a** RM
150 __ |**a** Therapeutics
360 __ |**i** subdivision |**a** Treatment |**i** under individual diseases and types of diseases, e.g. |**a** Cancer--Treatment; Leprosy--Treatment; |**i** also subdivision |**a** Diseases--Treatment |**i** under individual organs and regions of the body and under individual animals and groups of animals, e.g. |**a** Heart--Diseases--Treatment; Cattle--Diseases--Treatment; Fishes--Diseases--Treatment; |**i** and subdivision |**a** Therapeutic use |**i** under topical headings for discussions of their use in treating disease, e.g. |**a** Copper--Therapeutic use; Corn--Therapeutic use; X-rays--Therapeutic use
450 __ |**a** Medical treatment
450 __ |**a** Therapy
450 __ |**a** Treatment of diseases
450 __ |**a** Treatments for diseases
550 __ |**w** g |**a** Clinical medicine
670 __ |**a** MESH |**b** (Therapeutics)
670 __ |**a** LC database, Sept. 24, 2004 |**b** (titles: medical treatment)
906 __ |**t** 0442 |**u** te03 |**v** 0
953 __ |**a** xx00 |**b** td04

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IPR2025-00731

Attachment 2A

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092 ##$a615.19 $bC517
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246 10$aChemical and pharmaceutical bulletin
260 ##$aTokyo, Japan : $bPharmaceutical Society of Japan,
300 ##$av. : $bill. ; $c26 cm.
310 ##$aMonthly
362 1#$aBegan with: Vol. 6 in Feb. 1958.
500 ##$aDescription based on: Vol. 25, no. 6 (June 1977); title from cover.
510 2#$aLife sciences collection,
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510 2#$aBibliography of agriculture, $x0006-1530
546 ##$aEnglish, French, or German.
650 #0$aPharmaceutical chemistry $vPeriodicals
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936 ##$aNov. 1979
948 ##$aLTI 09/01/2008

Attachment 2B

The Library of Congress

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Help | New Search | Search History | Headings List | Start Over

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LCCN Permalink: https://lccn.loc.gov/sh2008109165
HEADING: Pharmaceutical chemistry Periodicals

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Attachment 2C

Bibliographic Record - OCLC Number: 6067231

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	Encoding Level	' ' - Full level
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005	20240225135512.5	
008	Date Entered on File	'800310'
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	Date1/Beginning Date of Publication	'1958'
	Date2/Ending Date of Publication	'2022'
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	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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260 Tokyo, Japan : **$b** Pharmaceutical Society of Japan
300 65 volumes : **$b** illustrations ; **$c** 26-29 cm
310 Monthly
336 text **$b** txt **$2** rdacontent
337 unmediated **$b** n **$2** rdamedia
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362 1 Began with: Vol. 6 in Feb. 1958; ceased with v. 70, no. 1 (January 2022).
510 2 Chemical abstracts **$x** 0009-2258
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588 0 Vol. 25, no. 6 (June 1977); title from cover.
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650 0 Pharmaceutical chemistry **$v** Periodicals.
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650 7 Pharmaceutical chemistry **$v** Periodicals **$2** nli
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655 4 Zeitschrift.
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710 2 **$6** 710-01/$1 **$a** 日本薬学会 **$0** (JTNDL)00258338
710 2 **$6** 880-01 **$a** Nihon Yakugakkai.
776 0 8 **$i** Online version; continues the print: **$t** Chemical & pharmaceutical bulletin **$x** 1347-5223 **$w** (DLC) 2022240217 **$w** (OCoLC)52275876
780 0 0 **$t** Pharmaceutical bulletin **$x** 0369-9471 **$w** (OCoLC)5451751
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856 4 1 **$u** http://cpb.pharm.or.jp/
856 4 1 **$u** http://bibpurl.oclc.org/web/6996 **$u** http://www.jstage.jst.go.jp/browse/cpb **$7** 0
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MARC Display | Labelled Display

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LCCN Permalink: https://lccn.loc.gov/sh85100590
HEADING: Pharmaceutical technology

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550 __ |**w** g |**a** Technology
906 __ |**t** 8513 |**u** fk03 |**v** 0
953 __ |**a** xx00

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Attachment 3A

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245 00$aPharmaceutical dosage forms. $pParenteral medications.
246 13$aParenteral medications
250 ##$a3rd ed. / $bedited by Sandeep Nema, John D. Ludwig.
260 ##$aNew York : $bInforma Healthcare, $c2010.
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337 ##$aunmediated $bn $2rdamedia
338 ##$avolume $bnc $2rdacarrier
500 ##$aRev. ed. of: Pharmaceutical dosage forms, parenteral medications. 2nd ed., rev. and expanded. c1992-1993.
504 ##$aIncludes bibliographical references and index.
505 0#$av. 1. Formulation and packaging -- v. 2. Facility design, sterilization and processing -- v. 3. Regulations, validation and the future.
520 ##$a"A historical perspective of injectable drug therapy, common routes of administration, and biopharmaceutics of NCEs and NBEs. - An in-depth discussion on the preformulation and formulation of small and large molecules, including ophthalmic dosage forms. - A presentation of parenteral primary packaging options - glass and plastic containers, as well as elastomeric closures. - A definitive chapter on container-closure integrity. - New chapters on solubility and solubilization, formulation of depot delivery systems and biophysical/biochemical characterization of proteins"--Provided by publisher.
650 12$aInfusions, Parenteral $xstandards
650 22$aDosage Forms $xstandards
650 22$aDrug Delivery Systems $xmethods
650 22$aPharmaceutical Preparations $xadministration & dosage
650 22$aQuality Control
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700 1#$aLudwig, John D.
730 0#$aPharmaceutical dosage forms, parenteral medications.
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Attachment 3B

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005	20250213194648.0	
008	Date Entered on File	'100720'
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	Date1/Beginning Date of Publication	'2010'
	Date2/Ending Date of Publication	' '
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	Illustrations	'a '
	Target Audience	' ' - Unknown or unspecified
	Form of Item	' ' - None of the following
	Nature of Contents Code	'b '
	Government Publication	' ' - Not a government publication
	Conference Publication	'0' - Not a conference publication
	Festschrift	'0' - Not a festschrift
	Index	'1' - Index present
	Literary Form	'0' - Not fiction
	Biography	' ' - No biographical material
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010 2010030765

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042 pcc

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050 0 0 RS201.P37 **$b** P48 2010
060 0 0 2010 L-841
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245 0 0 Pharmaceutical dosage forms. **$p** Parenteral medications.
246 3 0 Parenteral medications
250 3rd ed. / **$b** edited by Sandeep Nema, John D. Ludwig.
260 London ; **$a** New York : **$b** Informa Healthcare, **$c** 2010.
300 3 volumes : **$b** illustrations (some color) ; **$c** 27 cm
336 text **$b** txt **$2** rdacontent
337 unmediated **$b** n **$2** rdamedia
338 volume **$b** nc **$2** rdacarrier
500 Revised edition of: Pharmaceutical dosage forms, parenteral medications. 2nd ed., rev. and expanded. c1992-1993.
504 Includes bibliographical references and index.
505 0 v. 1. Formulation and packaging -- v. 2. Facility design, sterilization and processing -- v. 3. Regulations, validation and the future.
520 "A historical perspective of injectable drug therapy, common routes of administration, and biopharmaceutics of NCEs and NBEs. - An in-depth discussion on the preformulation and formulation of small and large molecules, including ophthalmic dosage forms. - A presentation of parenteral primary packaging options - glass and plastic containers, as well as elastomeric closures. - A definitive chapter on container-closure integrity. - New chapters on solubility and solubilization, formulation of depot delivery systems and biophysical/biochemical characterization of proteins"--Provided by publisher.
650 0 Parenteral solutions.
650 0 Pharmaceutical technology.
650 0 Drugs **$x** Dosage.
650 0 Quality control.
650 1 2 Infusions, Parenteral **$x** standards
650 2 2 Dosage Forms **$x** standards
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700 1 Ludwig, John D.
730 0 Pharmaceutical dosage forms, parenteral medications.

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758 **$i** has work: **$a** Pharmaceutical dosage forms Vol. 2 (Text) **$1** https://id.oclc.org/worldcat/entity/E39PCH83b3PfctdbpJrgdvFk6q **$4** https://id.oclc.org/worldcat/ontology/hasWork

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938 Brodart **$b** BROD **$n** 11815647 **$c** $324.00

938 Baker and Taylor **$b** BTCP **$n** BK0007669569

938 Coutts Information Services **$b** COUT **$n** 15337458 **$c** 850.00 USD

938 CRC Press **$b** CRCP **$n** CRC000H8645000

938 YBP Library Services **$b** YANK **$n** 3294806

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Attachment 3C

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URL: https://catalog.loc.gov/

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Attachment 3D

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Attachment 3E

LC control no.: sh 85039725
LCCN Permalink: https://lccn.loc.gov/sh85039725
HEADING: Drugs Dosage

000 01474cz a2200313n 450
001 4691706
005 20190825061244.0
008 860211i| anannbabn |a ana
010 __ |**a** sh 85039725
035 __ |**a** (DLC)sh 85039725
035 __ |**a** (DLC)6793932
035 __ |**a** (DLC)sp 85039725
035 __ |**a** (DLC)340157
040 __ |**a** DLC |**c** DLC |**d** DLC
053 _0 |**a** RM138 |**b** RM129 |**c** Drug prescribing and prescription writing
053 _0 |**a** RM145 |**c** Dose books
150 __ |**a** Drugs |**x** Dosage
450 __ |**a** Dosage of drugs
450 __ |**a** Dosiology
450 __ |**a** Drugs |**x** Microdosage
450 __ |**a** Microdosage of drugs
450 __ |**a** Posology
550 __ |**w** g |**a** Drugs |**x** Administration
670 __ |**a** Work cat.: Waldman, Ayelet. A really good day : how microdosing made a mega difference in my mood, my marriage, and my life, 2017: |**b** p. x (microdosing of LSD) p. 3 (Today I took my first microdose) p. 4 (my microdose of diluted LSD)
670 __ |**a** Wikileaf website, Jan. 12, 2018 |**b** (Marijuana and microdosing: Microdosing is something we often hear about in regards to LSD or magic mushrooms. In essence, it's the ingestion of sub-perceptual doses that enhance one's appreciation and ability to experience, without producing an overt high. The point of microdosing is that it allows you to reap the benefits while pursuing your daily activities without interference)
906 __ |**t** 0615 |**u** te04 |**v** 0
910 __ |**a** Proposal saved by tc15 on 01/17/2018 at 11:02:17
953 __ |**a** xx00 |**b** ta25
906 __ |**t** 1801 |**v** 0

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Attachment 3F

LC control no.: sh 85109440
LCCN Permalink: https://lccn.loc.gov/sh85109440
HEADING: Quality control

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001 4758976
005 20120328074134.0
008 860211i| anannbabn |b ana
010 __ |**a** sh 85109440
035 __ |**a** (DLC)sh 85109440
035 __ |**a** (DLC)105661
040 __ |**a** DLC |**c** DLC |**d** DLC
053 _0 |**a** TS156 |**b** TS156.6
150 __ |**a** Quality control
360 __ |**i** subdivision |**a** Quality control |**i** under types of industries, plants, and processes, and under individual materials and types of materials, e.g. |**a** Construction industry--Quality control; Foundries--Quality control; Concrete--Quality control
550 __ |**w** g |**a** Factory management
550 __ |**w** g |**a** Industrial engineering
550 __ |**w** g |**a** Reliability (Engineering)
550 __ |**w** g |**a** Sampling (Statistics)
550 __ |**w** g |**a** Standardization
550 __ |**a** Quality assurance
550 __ |**a** Quality of products
680 __ |**i** Here are entered works on the procedures used in establishing and maintaining acceptable limits of variation for products and services.
906 __ |**t** 8719 |**u** fk05 |**v** 0
953 __ |**a** xx00 |**b** ta25

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Attachment 3G

Infusions, Parenteral MeSH Descriptor Data 2025

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Infusions, Parenteral
Tree Number(s)
E02.319.267.510
Unique ID
D007263
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D007263
Annotation
general or unspecified; prefer specifics; restrict to method of administration of drugs & chemicals; not for replacement of fluids (= FLUID THERAPY) nor for nourishment (= PARENTERAL FEEDING)
Scope Note
The administration of liquid medication, nutrient, or other fluid through some other route than the alimentary canal, usually over minutes or hours, either by gravity flow or often by infusion pumping.
Entry Term(s)
Intra-Abdominal Infusions
Intraperitoneal Infusions
Parenteral Infusions
Peritoneal Infusions
See Also
Fluid Therapy
Home Infusion Therapy
Date Established
1966/01/01
Date of Entry
1999/01/01
Revision Date
2008/07/08

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Attachment 3H

National Library of Medicine

Dosage Forms MeSH Descriptor Data 2025

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Dosage Forms
Tree Number(s)
D26.255
E05.916.250
Unique ID
D004304
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D004304
Annotation
general only: prefer specifics
Scope Note
Completed forms of the pharmaceutical preparation in which prescribed doses of medication are included. They are designed to resist action by gastric fluids, prevent vomiting and nausea, reduce or alleviate the undesirable taste and smells associated with oral administration, achieve a high concentration of drug at target site, or produce a delayed or long-acting drug effect.
Registry Numbers
0
See Also
Drug Administration Routes
Drug Delivery Systems
Date Established
1966/01/01
Date of Entry
1999/01/01
Revision Date
2014/06/17

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Attachment 3I

Drug Delivery Systems MeSH Descriptor Data 2025

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Drug Delivery Systems
Tree Number(s)
E02.319.300
Unique ID
D016503
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D016503
Annotation
coordinate with drug / admin; do not confuse with MEDICATION SYSTEMS, an organizational concept in patient care for providing medication; note entry term DRUG TARGETING: do not confuse with MOLECULAR TARGETED THERAPY
Scope Note
Systems for the delivery of drugs to target sites of pharmacological actions. Technologies employed include those concerning drug preparation, route of administration, site targeting, metabolism, and toxicity.
Entry Term(s)
Drug Targeting
See Also
Dosage Forms
Drug Administration Routes
Drug Carriers
Public MeSH Note
92
History Note
92
Date Established
1992/01/01
Date of Entry
1991/06/21
Revision Date
2010/06/25

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Attachment 3J

National Library of Medicine

Pharmaceutical Preparations MeSH Descriptor Data 2025

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Pharmaceutical Preparations
Tree Number(s)
D26
Unique ID
D004364
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D004364
Annotation
general or unspecified only; prefer specific drugs; drug names: use NOMENCLATURE; policy: Manual chapter 25
Scope Note
Drugs intended for human or veterinary use, presented in their finished dosage form. Included here are materials used in the preparation and/or formulation of the finished dosage form.
Entry Version
PHARM PREPARATIONS
Entry Term(s)
Drug
Drugs
Pharmaceutic Preparations
Pharmaceutical
Pharmaceutical Preparation
Pharmaceutical Product
Pharmaceutical Products
Pharmaceuticals
Preparations, Pharmaceutical
Registry Numbers
0
See Also
Pharmacology
Plants, Medicinal
Receptors, Drug
Public MeSH Note
98; see DRUGS 1963-97
History Note
98(63)
Entry Combination
adverse effects:Drug-Related Side Effects and Adverse Reactions
antagonists & inhibitors:Drug Antagonism
legislation & jurisprudence:Legislation, Drug
pharmacokinetics:Pharmacokinetics
pharmacology:Pharmacology

poisoning:Poisoning
therapeutic use:Drug Therapy
toxicity:Drug-Related Side Effects and Adverse Reactions

Date Established

1998/01/01

Date of Entry

1999/01/01

Revision Date

2020/05/27

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Attachment 3K

Quality Control MeSH Descriptor Data 2025

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Quality Control
Tree Number(s)
J01.897.608
Unique ID
D011786
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D011786
Scope Note
A system for verifying and maintaining a desired level of quality in a product or process by careful planning, use of proper equipment, continued inspection, and corrective action as required. (Random House Unabridged Dictionary, 2d ed)
See Also
Reference Standards
Total Quality Management
Public MeSH Note
74
History Note
74(71)
Date Established
1974/01/01
Date of Entry
1999/01/01
Revision Date
2016/01/13

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Attachment 3L

National Library of Medicine

Technology, Pharmaceutical MeSH Descriptor Data 2025

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Technology, Pharmaceutical
Tree Number(s)
E05.916
J01.897.836
Unique ID
D013678
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D013678
Scope Note
The application of scientific knowledge or technology to pharmacy and the pharmaceutical industry. It includes methods, techniques, and instrumentation in the manufacture, preparation, compounding, dispensing, packaging, and storing of drugs and other preparations used in diagnostic and determinative procedures, and in the treatment of patients.
Entry Version
TECHNOL PHARM
Entry Term(s)
Pharmaceutic Technology
Pharmaceutical Technology
Pharmacy Technology
Technology, Pharmaceutic
Technology, Pharmacy
NLM Classification #
QV 778
Previous Indexing
Chemistry, Pharmaceutical (1966-1967)
Pharmacy (1966-1967)
Public MeSH Note
68
History Note
68
Date Established
1968/01/01
Date of Entry
1999/01/01
Revision Date
2016/03/02

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MARC Bibliographic Record

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005	20100301151024.0	
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050	_4	$aRS201.E87$bH36 2009
060	00	$a2009 J-819
060	10	$aQV 735$bH236 2009

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082	04	$a615.19$222
245	00	$aHandbook of pharmaceutical excipients.
250		$aSixth edition /$bedited by Raymond C. Rowe, Paul J. Sheskey, Marian E. Quinn.
264	_1	$aLondon ;$aChicago :$bPharmaceutical Press ;$aWashington, DC :$bAmerican Pharmacists Association,$c2009.
300		$axxvii, 888 pages :$billustrations ;$c29 cm
336		$atext$btxt$2rdacontent
337		$aunmediated$bn$2rdamedia
338		$avolume$bnc$2rdacarrier
504		$aIncludes bibliographical references and index.
650	12	$aExcipients$vhandbooks.
650	22	$aTechnology, Pharmaceutical$vhandbooks.
650	_0	$aExcipients$vHandbooks, manuals, etc.
700	1_	$aRowe, Raymond C.
700	1_	$aSheskey, Paul J.
700	1_	$aQuinn, Marian E.
710	2_	$aAmerican Pharmacists Association.
949		$a20100301$brkrcddntepfcall:n$grepl:n$hhsl
997		$aMARCIVE

MMS IDs

Document ID:

9910080916202121

Network Electronic IDs:

Network Physical IDs:

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9920181053402124

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Attachment 4B

Bibliographic Record - OCLC Number: 473537495

LDR	Record Status	'c' - Corrected or revised
	Type of Record	'a' - Language material
	Bibliographic Level	'm' - Monograph/Item
	Type of Control	' ' - No specified type of control
	Encoding Level	' ' - Full level
	Descriptive Cataloging Form	'a' - AACR2
001	473537495	
005	20250122092645.5	
008	Date Entered on File	'090812'
	Type of Date/Publication Status	's' - Single date
	Date1/Beginning Date of Publication	'2009'
	Date2/Ending Date of Publication	' '
	Place of Publication, Production, or Execution Code	'enk' - England
	Illustrations	'a '
	Target Audience	' ' - Unknown or unspecified
	Form of Item	' ' - None of the following
	Nature of Contents Code	'bf '
	Government Publication	' ' - Not a government publication
	Conference Publication	'0' - Not a conference publication
	Festschrift	'0' - Not a festschrift
	Index	'1' - Index present
	Literary Form	'0' - Not fiction
	Biography	' ' - No biographical material
	Language Code	'eng' - English
	Modified Record	' ' - Record is not modified
	Cataloging Source Code	'd' - Other

040 LVB **$b** fre **$c** LVB **$d** CHRRO **$d** ZWZ **$d** BDF **$d** OCLCQ **$d** LVB **$d** MUQ **$d** OCLCO **$d** OCLCF **$d** OCLCA **$d** OCLCQ **$d** OCLCA **$d** OCLCO **$d** OCL **$d** OCLCO **$d** OCLCL **$d** OCLCQ **$d** OCLCL **$d** OCLCO **$d** OCLCQ

015 GBA979998 **$2** bnb

016 7 FRBNF421480660000003 **$2** FrPBN

016 7 015347782 **$2** Uk

020 9780853697923 **$q** (hbk.)

020 0853697922 **$q** (hbk.)

050 4 RS201.E87 **$b** H36 2009

060 0 0 2009 J-819

060 1 0 QV 735 **$b** H236 2009

082 0 4 615.19 **$2** 22

245 0 0 Handbook of pharmaceutical excipients / **$c** edited by Raymond C. Rowe, Paul J. Sheskey, Marian E. Quinn.

250 6th ed.

260 London ; **$a** Greyslake, IL : **$b** Pharmaceutical Press ; **$a** Washington, DC : **$b** American Pharmaci sts Association, **$c** 2009.

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300 xxvii, 888 pages : **$b** illustrations ; **$c** 29 cm
336 texte **$b** txt **$2** rdacontent/fre
337 sans médiation **$b** n **$2** rdamedia/fre
338 volume **$b** nc **$2** rdacarrier/fre
504 Bibliogr.
520 3 An internationally acclaimed reference work recognized as one of the most authoritative and compreh ensive sources of information on excipients used in pharmaceutical formulation with this new edition providing 340 excipient monographs. Incorporates information on the uses, and chemical and physical properties of excipients systematically collated from a variety of international sources including : phar macopeias, patents, primary and secondary literature, websites, and manufacturers' data; extensive dat a provided on the applications, licensing, and safety of excipients; comprehensively cross-referenced a nd indexed, with many additional excipients described as related substances and an international suppl ier's directory and detailed information on trade names and specific grades or types of excipients com mercially available.
650 0 Excipients **$v** Handbooks, manuals, etc.
650 0 Excipients.
650 0 Pharmaceutical technology.
650 2 Excipients
650 2 Technology, Pharmaceutical
650 6 Excipients **$v** Guides, manuels, etc.
650 6 Excipients.
650 6 Techniques pharmaceutiques.
650 7 Pharmaceutical technology **$2** fast
650 7 Excipients **$2** fast
650 7 Excipients. **$2** fmesh
650 7 Technologie pharmaceutique. **$2** fmesh
650 7 Excipients **$x** Guides, manuels, etc. **$2** ram
650 7 Technologie pharmaceutique **$x** Guides, manuels, etc. **$2** ram
650 7 excipient **$v** encyclopédie. **$2** rero
655 2 Handbook
655 7 handbooks. **$2** aat
655 7 Handbooks and manuals **$2** fast
655 7 Handbooks and manuals. **$2** lcgft
655 7 [Encyclopédie] **$2** rerovoc
655 7 Guides et manuels. **$2** rvmgf
700 1 Rowe, Raymond C.
700 1 Sheskey, Paul J.
700 1 Quinn, Marian E.
710 2 American Pharmacists Association **$1** https://id.oclc.org/worldcat/entity/E39QH7Jmr7FKGKvvYYyT HcBcqF
856 4 2 **$3** Notice et cote du catalogue de la Bibliothèque nationale de France **$u** http://catalogue.bnf.fr/ark:/1 2148/cb42148066m
936 BATCHLOAD
029 1 BDF **$b** FRBNF421480660000003
029 1 CHRRO **$b** R005419157

Attachment 4C

LC control no.: sh 89002897
LCCN Permalink: https://lccn.loc.gov/sh89002897
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035 __ |**a** (DLC)172474
040 __ |**a** DLC |**c** DLC
053 _0 |**a** RS201.E87
150 __ |**a** Excipients
450 __ |**a** Drug emulsifying agents
450 __ |**a** Drug formulation agents
450 __ |**a** Drug stabilizing agents
450 __ |**a** Drug suspending agents
450 __ |**a** Emulsifying agents for drugs
450 __ |**a** Suspending agents for drugs
550 __ |**w** g |**a** Drugs
550 __ |**w** g |**a** Stabilizing agents
670 __ |**a** Work cat.: Weiner, M. Adverse reactions to drug formulating agents, c1989 |**b** (excipients)
670 __ |**a** MESH.
670 __ |**a** Dorland's med. dict.
670 __ |**a** Stedman's med. dict.
670 __ |**a** Random House.
906 __ |**t** 8923 |**u** fk03 |**v** 1
952 __ |**a** 3 bib. record(s) to be changed
953 __ |**a** ff01

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LC control no.: gf2014026109
LCCN Permalink: https://lccn.loc.gov/gf2014026109
HEADING: Handbooks and manuals

000 03625nz a2200325n 450
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035 __ |**a** gf2014026109
040 __ |**a** IlChALCS |**b** eng |**c** DLC |**f** lcgft
155 __ |**a** Handbooks and manuals
455 __ |**a** Companions (Handbooks)
455 __ |**a** Enchiridia
455 __ |**a** Enchiridions
455 __ |**a** Manuals
455 __ |**a** Pocket companions
455 __ |**a** Vade-mecums
555 __ |**w** g |**a** Instructional and educational works
555 __ |**w** g |**a** Reference works
670 __ |**a** Genre terms : a thesaurus for use in rare book and special collections cataloging, via WWW, July 30, 2014 |**b** (Manuals (Handbooks). UF Handbooks. BT Instructional works (Gathering term; do not assign). NT Drawing books; Emigrant guides; Merchant manuals; Military manuals; Pilot guides; Writing books)
670 __ |**a** Art & architecture thesaurus online, July 30, 2014 |**b** (handbooks. Portable books, treatises, or compendiums, covering one or more subjects, arranged for quick location of information and of a size such as may conveniently be held in the hand. Examples are instructional manuals and guides to museums' collections; manuals (instructional materials). Books or treatises, often compendious, containing rules or instructions needed to perform tasks, operations, processes, occupations, arts, or studies, and intended to be used as reference while the task or study is performed.)
670 __ |**a** Reitz, J.M. ODLIS : online dictionary for library and information science, July 30, 2014 |**b** (handbook: A single-volume reference book of compact size that provides concise factual information on a specific subject, organized systematically for quick and easy access. Synonymous with vade mecum. See also: companion and manual; vade mecum: A Latin phrase meaning "goes with me." A small book such as a guidebook, handbook, or manual meant to be carried about, used during the Middle Ages by

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physicians, astrologers, and tradesmen for quick reference and computation. In a more general sense, any item regularly carried by a person. Also spelled vade-mecum. Plural: vade mecums; companion: A handbook intended to be used in connection with the study of a particular subject or field (examples: The Cambridge Companion to Ralph Ellison and The Oxford Companion to Philosophy). This type of reference work is often an edited collection of essays; manual: A book of compact size, especially one describing in considerable detail the government of a state or the structure and functions of a government agency (example: The United States Government Manual published annually by the U.S. Government Printing Office). Also refers to a book or pamphlet containing practical instructions, rules, or steps for performing a task or operation, assembling a manufactured object, or using a system or piece of equipment (example: Manual of Archival Description published by Gower). Used synonymously with handbook)

670 __ |**a** Wikipedia, July 30, 2014 |**b** (Enchiridion is a Late Latin term referring to a small manual or handbook; enchiridions)

670 __ |**a** Merriam-Webster online, July 30, 2014 |**b** (enchiridion, plural enchiridia: handbook, manual)

670 __ |**a** Wiktionary, July 30, 2014 |**b** (enchiridion (plural enchiridions or enchiridia): A handbook or manual; handbook (plural handbooks): A topically organized book of reference on a certain field of knowledge, disregarding the size of it; manual (plural manuals) 1. A handbook)

985 __ |**a** MvI

985 __ |**e** General terms project

910 __ |**a** Proposal saved by tc03 on 01/15/2015 at 14:01:29

906 __ |**t** 1513 |**v** 0

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Library of Congress Authorities
URL: http://authorities.loc.gov/
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URL: https://catalog.loc.gov/

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IPR2025-00731

Attachment 4E

Excipients MeSH Descriptor Data 2025

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Excipients
Tree Number(s)
D26.650.700.419
D27.720.744.770.419
Unique ID
D005079
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D005079
Scope Note
Usually inert substances added to a prescription in order to provide suitable consistency to the dosage form. These include binders, matrix, base or diluent in pills, tablets, creams, salves, etc.
Entry Term(s)
Excipient
Stabilizing Agent
Stabilizing Agents
Suspending Agent
Suspending Agents
Registry Numbers
0
NLM Classification #
QV 800
Previous Indexing
Pharmaceutic Aids (1968-1974)
Pharmacy (1966-1967)
Vehicles (1966-1974)
Public MeSH Note
80; was see under VEHICLES 1975-79, was see under PHARMACEUTIC AIDS 1968-74
Online Note
search PHARMACEUTIC AIDS 1968-74
History Note
80(75); was see under VEHICLES 1975-79, was see under PHARMACEUTIC AIDS 1968-74
Date Established
1980/01/01
Date of Entry
1999/01/01
Revision Date
2020/05/27

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Attachment 5A

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Journal of the American Society of Nephrology : JASN.

Authors: American Society of Nephrology.

Journal, Magazine ©1990-

Baltimore, MD : Williams & Wilkins, ©1990-

Washington, DC : American Society of Nephrology Hagerstown, MD : Wolters Kluwer Health, on behalf of the American Society of Nephrology

Vol. 1, no. 1 (July 1990)-

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Access journal

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1 Available at 1 Location

Amneal Exhibit 1024, Page 221 of 272
Amneal Pharmaceuticals, Inc. v. Nivagen Pharmaceuticals, Inc.
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Publisher Information:
Baltimore, MD : Williams & Wilkins, ©1990-
Washington, DC : American Society of Nephrology Hagerstown, MD : Wolters Kluwer Health, on behalf of the American Society of Nephrology
Vol. 1, no. 1 (July 1990)-

Physical Description: volumes : illustrations ; 28 cm

Subjects:
Medical Subject Headings
Kidney Diseases
Nephrology
Periodical

Library of Congress Subject Headings
Nephrology—Periodicals
Kidneys—Diseases—Periodicals

Library of Congress Genres
Periodicals

Faceted Application of Subject Terminology
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Nephrology
Periodicals

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Genre:
Periodicals.
Periodical.

Notes:
Title from cover.

Database: WorldCat.org

ISSN: 1046-6673, 1533-3450

OCLC Number/Unique Identifier: 20484750

Language: English

Variant Records:
Cataloging in French (1132124096)
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Staff View (MARC Record):
MARC Record

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Amneal Pharmaceuticals, Inc. v. Nivagen Pharmaceuticals, Inc.
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Attachment 5B

Kidney Diseases MeSH Descriptor Data 2025

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Kidney Diseases
Tree Number(s)
C12.050.351.968.419
C12.200.777.419
C12.950.419
Unique ID
D007674
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D007674
Annotation
general or unspecified: prefer specifics; inflammatory disease = NEPHRITIS; consider diseases under NEPHR- & RENAL; cyst
= KIDNEY, CYSTIC or specifics
Scope Note
Pathological processes of the KIDNEY or its component tissues.
Entry Version
KIDNEY DIS
Date Established
1966/01/01
Date of Entry
1999/01/01
Revision Date
2021/06/30

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Amneal Pharmaceuticals, Inc. v. Nivagen Pharmaceuticals, Inc.
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Attachment 5C

Nephrology MeSH Descriptor Data 2025

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Nephrology
Tree Number(s)
H02.403.429.580
Unique ID
D009398
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D009398
Scope Note
A subspecialty of internal medicine concerned with the anatomy, physiology, and pathology of the kidney.
Entry Version
NEPHROL
NLM Classification #
WJ 21
Previous Indexing
Kidney Diseases (1966-1979)
See Also
Kidney Diseases
Public MeSH Note
80
History Note
80
Date Established
1980/01/01
Date of Entry
1979/05/29
Revision Date
2009/07/06

page delivered in 0.133s

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MARC Display | Labelled Display

LC control no.: sh 85090860
LCCN Permalink: https://lccn.loc.gov/sh85090860
HEADING: Nephrology

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010 __ |**a** sh 85090860
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053 _0 |**a** RC902
150 __ |**a** Nephrology
550 __ |**w** g |**a** Internal medicine
550 __ |**a** Kidneys
906 __ |**t** 7726 |**u** ---- |**v** 0
953 __ |**a** xx00

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Attachment 5E

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LCCN Permalink: https://lccn.loc.gov/sh85072261
HEADING: Kidneys Diseases

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005 20120326101329.0
008 860211i| anannbabn |b ana
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035 __ |**a** (DLC)sh 85072261
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450 __ |**a** Kidney diseases
450 __ |**a** Nephritis
450 __ |**a** Nephropathy
450 __ |**a** Renal diseases
906 __ |**t** 8827 |**u** fk07 |**v** 1
953 __ |**a** xx00 |**b** fj25

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Attachment 5F

Bibliographic Record - OCLC Number: 20484750

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	20484750	
005	20230307211249.8	
008	Date Entered on File	'891013'
	Type of Date/Publication Status	'c' - Continuing resource currently published
	Date1/Beginning Date of Publication	'1990'
	Date2/Ending Date of Publication	'9999'
	Place of Publication, Production, or Execution Code	'mdu' - Maryland
	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
	Language Code	'eng' - English
	Modified Record	' ' - Record is not modified
	Cataloging Source Code	'c' - Cooperative cataloging program

010 sn 89003167

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022 0 1046-6673 **$l** 1046-6673 **$2** 1

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032 006561 **$b** USPS

042 nsdp **$a** pcc

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060 0 0 W1 **$b** JO911BB
082 1 0 616 **$2** 11
210 0 J. Am. Soc. Nephrol.
222 0 Journal of the American Society of Nephrology
245 0 0 Journal of the American Society of Nephrology : **$b** JASN.
246 3 0 JASN
260 Baltimore, MD : **$b** Williams & Wilkins, **$c** ©1990-
264 2 1 **$3** 2005- : **$a** Washington, DC : **$b** American Society of Nephrology
264 3 1 **$3** 2023- : **$a** Hagerstown, MD : **$b** Wolters Kluwer Health, on behalf of the American Society of N ephrology
300 volumes : **$b** illustrations ; **$c** 28 cm
310 Monthly, **$b** 2007-
321 Monthly, **$b** 1990-2004
321 Thirteen no. a year (two issues in Oct.), **$b** 2005-2006
336 text **$b** txt **$2** rdacontent
337 unmediated **$b** n **$2** rdamedia
338 volume **$b** nc **$2** rdacarrier
362 0 Vol. 1, no. 1 (July 1990)-
500 Title from cover.
510 2 Chemical abstracts **$x** 0009-2258
515 Sept. issue of each volume is Program and Abstracts of the American Society of Nephrology Annual Meeting, 1990-1996; two issues published in Sept., one of which is the Program and Abstracts issue, 1 997-
530 Also issued to subscribers via the World Wide Web.
550 Official journal of: the American Society of Nephrology.
588 Latest issue consulted: Vol. 34, no. 1 (January 2023) (surrogate).
650 0 Nephrology **$v** Periodicals.
650 0 Kidneys **$x** Diseases **$v** Periodicals.
650 2 Kidney Diseases.
650 2 Nephrology.
650 6 Reins **$x** Maladies.
650 6 Néphrologie.
650 7 Kidneys **$x** Diseases. **$2** fast **$0** (OCoLC)fst00987389
650 7 Nephrology. **$2** fast **$0** (OCoLC)fst01035991
650 1 7 Nefrologie. **$2** gtt
655 2 Periodical.
655 7 Periodicals. **$2** fast **$0** (OCoLC)fst01411641
655 7 Periodicals. **$2** lcgft **$0** http://id.loc.gov/authorities/genreForms/gf2014026139
710 2 American Society of Nephrology.
772 0 **$t** Nephrology self-assessment program **$w** (DLC) 2001214946 **$w** (OCoLC)47815833
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891 1 3 **$9** 853 **$8** 1 **$a** v. **$b** no. **$u** 12 **$v** r **$i** (year/year) **$j** (month)
891 4 0 **$9** 863 **$8** 1 **$a** <1>- **$i** <1990/1991>- **$x** provisional
891 1 2 **$9** 853 **$8** 2 **$a** v. **$b** no. **$u** 06 **$v** r **$i** (year) **$j** (month) **$x** 01,07
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891 3 3 **$9** 853 **$8** 3 **$a** v. **$b** no. **$u** 12 **$v** r **$i** (year) **$j** (month)
891 4 0 **$9** 863 **$8** 3 **$a** <7>- **$i** <1996>- **$x** provisional
029 1 AU@ **$b** 000006814389
029 1 GBVCP **$b** 13100428X
029 1 HEBIS **$b** 06823953X
029 1 NLGGC **$b** 093384874
029 1 NLM **$b** 9013836
029 1 NZ1 **$b** 4247592

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Attachment 6A

leader 02443cas a2200637 i 4500
001 9916685193406676
005 20250128084447.0
007 cr|||||||||||
008 150608c20159999enkbr p 0 0eng c
010 ##$a 2015243379
022 ##$a2058-5349 $l2058-5349 $9PY $7(Print)
022 ##$a2058-5357 $9EN $7(Electronic)
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040 ##$aEQO $beng $erda $cEQO $dOCLCO
041 0#$aeng
042 ##$apcc $anlmcopyc
044 ##$9England
060 00$aW1 $bBJ102
210 10$aBJA Educ $2DNLM
245 00$aBJA education.
246 1#$aBritish journal of anaesthesia education
264 #1$aOxford : $bOxford University Press, $c2015-
264 31$32018- : $a[London] : $bElsevier
300 ##$avolumes : $billustrations ; $c28 cm
310 ##$aBimonthly
336 ##$atext $btxt $2rdacontent
337 ##$aunmediated $bn $2rdamedia
338 ##$avolume $bnc $2rdacarrier
362 1#$aBegan with: Volume 15, number 3 (June 2015).
510 0#$91 $aPubMed $bv18n1, Jan. 2018- ; Selected citations only before this date
510 0#$aPMC
530 ##$aAlso issued online.
550 ##$aJournal of Royal College of Anaesthetists, Faculty of pain medicine, College of Anaesthetists of Ireland.
588 ##$aDescription based on: Volume 15, number 3 (June 2015) ; title from cover.
588 ##$aLatest issue consulted: Volume 15, number 4 (August 2015).
650 12$aAnesthesia
650 22$aCritical Care
650 22$aPain Management
655 #2$aPeriodical
710 2#$aRoyal College of Anaesthetists (Great Britain), $eissuing body.
710 2#$aCollege of Anaesthetists of Ireland, $eissuing body.
710 2#$aRoyal College of Anaesthetists (Great Britain). $bFaculty of Pain Medicine $eissuing body.
780 00$tContinuing education in anaesthesia, critical care & pain $x1743-1816 $w(DLC) 2004243743 $w(OCoLC)56671737 $w(DNLM)101217264
856 4#$uhttps://www.sciencedirect.com/science/journal/20585349
856 4#$uhttps://pmc.ncbi.nlm.nih.gov/journals/?term=101668519
911 ##$aElectronic and print, print canceled 2017
914 ##$aPortico $bCurrent to 2024 as of 20240208 $cISSN_20585349_8
935 ##$a(DNLM)1668519-nlmdb
992 ##$pP2 $eEF $a20150916

993 ##$aSDB $b20150916
994 ##$aCDN $b20150917
995 ##$aAUTH $b20150917 $cREV $d20241105
996 ##$aCONSER $b20000101
998 ##$aERMSLC 108649 $b20180123
999 ##$aAUTH
035 ##$a(OCoLC)911508475

Attachment 6B

Anesthesia MeSH Descriptor Data 2025

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Anesthesia
Tree Number(s)
E03.155
Unique ID
D000758
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D000758
Annotation
Manual 26.21+
Scope Note
A state characterized by loss of feeling or sensation. This depression of nerve function is usually the result of pharmacologic action and is induced to allow performance of surgery or other painful procedures.
See Also
Anesthetics
Entry Combination
education:Anesthesiology /education
instrumentation:Anesthesiology /instrumentation
Date Established
1966/01/01
Date of Entry
1999/01/01
Revision Date
2018/01/24

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Attachment 6C

Critical Care MeSH Descriptor Data 2025

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Critical Care
Tree Number(s)
E02.760.190
N02.421.585.190
Unique ID
D003422
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D003422
Scope Note
Health care provided to a critically ill patient during a medical emergency or crisis.
Entry Term(s)
Intensive Care
Intensive Care, Surgical
Surgical Intensive Care
Previous Indexing
Intensive Care Units (1966-1974)
Nursing Care (1966-1974)
Public MeSH Note
75
History Note
75
Date Established
1975/09/01
Date of Entry
1974/11/11
Revision Date
2015/06/26

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Attachment 6D

Pain Management MeSH Descriptor Data 2025

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Pain Management
Tree Number(s)
E02.745
N04.590.607.500
Unique ID
D059408
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D059408
Annotation
consider also PALLIATIVE CARE
Scope Note
A form of therapy that employs a coordinated and interdisciplinary approach for easing the suffering and improving the quality of life of those experiencing pain.
Previous Indexing
Pain (1966-2011)
See Also
Chronic Disease
Public MeSH Note
2012
History Note
2012
Date Established
2012/01/01
Date of Entry
2011/07/01
Revision Date
2013/07/08

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Attachment 6E

Bibliographic Record - OCLC Number: 911508475

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	'i' - ISBD punctuation included
001	911508475	
005	20181120192904.7	
008	Date Entered on File	'150608'
	Type of Date/Publication Status	'c' - Continuing resource currently published
	Date1/Beginning Date of Publication	'2015'
	Date2/Ending Date of Publication	'9999'
	Place of Publication, Production, or Execution Code	'enk' - England
	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	'c' - Cooperative cataloging program

010 2015243379

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015 GBB5G7391 **$2** bnb

016 7 101668519 **$2** DNLM

016 7 017103602 **$2** Uk

019 1063557066

022 2058-5349

042 pcc

060 0 0 W1 **$b** BJ102

245 0 0 BJA education.

246 1 British journal of anaesthesia education

264 1 Oxford : **$b** Oxford University Press, **$c** 2015-

264 3 1 **$3** 2018- : **$a** [London] : **$b** Elsevier

300 volumes : **$b** illustrations ; **$c** 28 cm

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310 Bimonthly
336 text **$b** txt **$2** rdacontent
337 unmediated **$b** n **$2** rdamedia
338 volume **$b** nc **$2** rdacarrier
362 1 Began with: Volume 15, number 3 (June 2015).
530 Also issued online.
550 Journal of Royal College of Anaesthetists, Faculty of pain medicine, College of Anaesthetists of Irelan d.
588 Description based on: Volume 15, number 3 (June 2015); title from cover.
588 Latest issue consulted: Volume 15, number 4 (August 2015).
650 0 Anesthesia **$v** Periodicals.
650 0 Anesthesiology **$v** Periodicals.
650 0 Pain **$x** Treatment **$v** Periodicals.
650 0 Critical care medicine **$v** Periodicals.
650 1 2 Anesthesia.
650 2 2 Pain Management.
650 2 2 Critical Care.
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710 2 Royal College of Anaesthetists (Great Britain), **$e** issuing body.
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780 0 0 **$t** Continuing education in anaesthesia, critical care & pain **$x** 1743-1816 **$w** (DLC) 2004243743 **$w** (OCoLC)56671737
856 4 1 **$u** http://bjaed.oxfordjournals.org/content/by/year
856 4 1 **$u** https://www.journals.elsevier.com/bja-education
029 1 AU@ **$b** 000055439022
029 1 NZ1 **$b** 15996012
029 1 UKMGB **$b** 017103602

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Attachment 6F

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MARC Display | Labelled Display

LC control no.: sh 85004952
LCCN Permalink: https://lccn.loc.gov/sh85004952
HEADING: Anesthesia

000 00513cz a2200217n 450
001 4658049
005 20120321073044.0
008 860211i| anannbabn |a ana
010 __ |**a** sh 85004952
035 __ |**a** (DLC)sh 85004952
035 __ |**a** (DLC)6012573
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053 _0 |**a** RD78.3 |**b** RD87.3
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550 __ |**w** g |**a** Anesthesiology
550 __ |**a** Analgesia
906 __ |**t** 0336 |**u** te04 |**v** 1
953 __ |**a** xx00 |**b** ta25

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Library of Congress Online Catalog
URL: https://catalog.loc.gov/

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MARC Display | Labelled Display

LC control no.: sh 85004972
LCCN Permalink: https://lccn.loc.gov/sh85004972
HEADING: Anesthesiology

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005 20120321073047.0
008 860211i| anannbabn |a ana
010 __ |**a** sh 85004972
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040 __ |**a** DLC |**c** DLC |**d** DLC
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550 __ |**w** g |**a** Surgery
906 __ |**t** 7549 |**u** ---- |**v** 0
953 __ |**a** xx00 |**b** fj01

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MARC Display | Labelled Display

LC control no.: sh 97003721
LCCN Permalink: https://lccn.loc.gov/sh97003721
HEADING: Pain Treatment

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001 4886918
005 20120402073814.0
008 970424i| anannbabn |a ana c
010 __ |**a** sh 97003721
035 __ |**a** (DLC)sh 97003721
035 __ |**a** (DLC)6012576
035 __ |**a** (DLC)sp 97003721
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040 __ |**a** WMM |**c** DLC |**d** DLC
150 __ |**a** Pain |**x** Treatment
450 __ |**a** Pain management
550 __ |**w** g |**a** Pain medicine
670 __ |**a** Expert pain management, c1997.
670 __ |**a** LC database, April 22, 1997.
670 __ |**a** Pain management : theory and practice, c1996.
906 __ |**t** 0336 |**u** te04 |**v** 1
953 __ |**a** yz00 |**b** ta25

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MARC Display | Labelled Display

LC control no.: sh2009122560
LCCN Permalink: https://lccn.loc.gov/sh2009122560
HEADING: Critical care medicine Periodicals

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001 8006849
005 20110729162505.0
008 090901|| anannbabn |n ana
010 __ |**a** sh2009122560
035 __ |**a** (DLC)436920
035 __ |**a** (DLC)sh2009122560
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150 __ |**a** Critical care medicine |**v** Periodicals
667 __ |**a** Record generated for validation purposes.
670 __ |**a** Work cat.: American journal of respiratory and critical care medicine, c1994-
906 __ |**t** 8888 |**u** tc00 |**v** 0
953 __ |**a** tc00

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Attachment 7A

leader 02292cas a2200637 4500
001 99747023406676
005 20250128082215.0
007 cr|cn#||||||||
008 691006c19699999oncqr p 0 0eng
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022 ##$a1920-2903 $9EN $7(Electronic)
030 ##$aCJHPAV
035 ##$90215645
040 ##$aDNLM $cDNLM
041 0#$aeng $beng
044 ##$9Canada
060 00$aW1 $bCA59
210 10$aCan J Hosp Pharm $2DNLM
245 04$aThe Canadian journal of hospital pharmacy.
246 11$aJournal canadien de la pharmacie hospitalière
246 1#$aJCPH
246 2#$0CAN J HOSP PHARM $9n
246 1#$aCJHP
260 ##$aSaskatoon, $bCanadian Society of Hospital Pharmacists.
260 3#$32024- : $aOttawa, Ontario : $bCanadian Society of Healthcare-Systems Pharmacy
300 ##$av. $billus., ports.
310 ##$aQuarterly, $b2020-
321 ##$aQuarterly $b1969-1984
321 ##$aBimonthly, $b-2019
336 ##$atext $btxt $2rdacontent
337 ##$aunmediated $bn $2rdamedia
338 ##$avolume $bnc $2rdacarrier
362 0#$av. 22- Jan./Feb. 1969-
500 ##$aPrint issues ceased with v. 67 (2014)
510 2#$93 $aMEDLINE $bv28n1, Jan./Feb. 1975-v48n6, Dec. 1995
510 0#$91 $aPubMed $bv28n1, Jan./Feb. 1975-v48n6, Dec. 1995; v62, 2009-
510 2#$aHospital literature index $bv28n1, Jan./Feb. 1975-1994
510 2#$93 $aHospital and health administration index $b1995
510 0#$aPMC
530 ##$aAlso issued online.
550 ##$aOfficial publication of the Canadian Society of Healthcare-Systems Pharmacy.
650 #2$aPharmacy Service, Hospital.
655 #2$aPeriodical
710 2#$aCanadian Society of Hospital Pharmacists.
710 2#$aCanadian Society of Healthcare-Systems Pharmacy.
780 00$tHospital pharmacist $x0317-4050 $w(OCoLC)2027883
856 4#$uhttp://www.cjhp-online.ca/index.php/cjhp
856 4#$uhttps://pmc.ncbi.nlm.nih.gov/journals/?term=0215645
911 ##$aElectronic only, print ceased 2014. Confirmed 20150424
935 ##$a(DNLM)74702-nlmdb
995 ##$aAUTH $b19691006 $cREV $d20241203
996 ##$aNOTCNSR $b20000101

998 ##$aERMSLC 198719 $b20180417
999 ##$aAUTH
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035 ##$a(OCoLC)01553145

Attachment 7B

National Library of Medicine

Pharmacy Service, Hospital MeSH Descriptor Data 2025

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Pharmacy Service, Hospital
Tree Number(s)
N02.278.216.500.968.603
N02.421.668.556
N04.452.442.452.422.603
Unique ID
D010607
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D010607
Scope Note
Hospital department responsible for the receiving, storing, and distribution of pharmaceutical supplies.
Entry Version
PHARM SERV HOSP
Entry Term(s)
Clinical Pharmacy Service
Hospital Pharmaceutic Service
Hospital Pharmaceutical Service
Hospital Pharmacy Service
Hospital Pharmacy Services
Pharmaceutic Service, Hospital
Pharmaceutical Service, Hospital
Pharmacy Service, Clinical
Service, Clinical Pharmacy
Service, Hospital Pharmaceutic
Service, Hospital Pharmaceutical
Service, Hospital Pharmacy
NLM Classification #
WX 179
Public MeSH Note
78; was HOSPITAL PHARMACY SERVICE 1963-77
Online Note
use PHARMACY SERVICE, HOSPITAL to search HOSPITAL PHARMACY SERVICE 1966-77
History Note
78; was HOSPITAL PHARMACY SERVICE 1963-77
Date Established
1978/01/01
Date of Entry
1999/01/01
Revision Date
2019/07/09

page delivered in 0.169s

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FOIA
HHS Vulnerability Disclosure

NLM Support Center
Accessibility
Careers

NLM | NIH | HHS | USA.gov

Attachment 7C

Bibliographic Record - OCLC Number: 60622627

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	60622627	
005	20250223183305.8	
008	Date Entered on File	'050614'
	Type of Date/Publication Status	'c' - Continuing resource currently published
	Date1/Beginning Date of Publication	'1969'
	Date2/Ending Date of Publication	'9999'
	Place of Publication, Production, or Execution Code	'onc' - Ontario
	Frequency	'b' - Bimonthly
	Regularity	'r' - Regular
	Type of Continuing Resource	'p' - Periodical
	Form of Original Item	's' - Electronic
	Form of Item	'o' - Online
	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	' ' - No alphabet or script given/no key title
	Entry Convention	'0' - Successive entry
	Language Code	'eng' - English
	Modified Record	' ' - Record is not modified
	Cataloging Source Code	' ' - National bibliographic agency
006	Form of Material	'm' - Computer file
	Target Audience	' ' - Unknown or unspecified
	Form of Item	'o' - Online
	Type of Computer File	'd' - Document
	Government Publication	' ' - Not a government publication
007	Category of Resource	'c' - Electronic Resource
	Specific Material Designation (c)	'r' - Remote
	Color (c)	'c' - Multicolored
	Dimensions (c)	'n' - Not applicable
	Sound (c)	'|' - No attempt to code
	Image Bit Depth (c)	'|||'
	File Formats (c)	'|' - No attempt to code
	Quality Assurance Target(s) (c)	'|' - No attempt to code
	Antecedent/Source (c)	'|' - No attempt to code
	Level of Compression (c)	'|' - No attempt to code

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Reformatting Quality (c) '|' - No attempt to code

010 2010247791
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016 7 C04140000 **$2** DNLM
016 7 011742296 **$2** Uk
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042 pcc
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060 0 0 W1 **$b** CA59
082 0 4 615.05
130 0 Canadian journal of hospital pharmacy (Online)
245 1 4 The Canadian journal of hospital pharmacy = **$b** Le journal canadien de la pharmacie hospitalière.
246 3 1 Journal canadien de la pharmacie hospitalière
246 1 3 CJHP
246 1 3 JCPH
260 [Toronto] : **$b** Canadian Society of Hospital Pharmacists
336 text **$b** txt **$2** rdacontent
337 computer **$b** c **$2** rdamedia
338 online resource **$b** cr **$2** rdacarrier
362 1 Print began with v. 21 (Jan./Feb. 1969).
530 Also issued in print.
546 Includes some text in French.
588 Description based on: Vol. 53, no. 1 (2000); title from issue table of contents page (publisher's Web site, viewed June 4, 2010).
588 Latest issue consulted: Vol. 63, no. 2 (2010) (viewed June 3, 2010).
650 0 Hospitals **$v** Periodicals.
650 0 Pharmacy **$v** Periodicals.
650 2 Pharmacy Service, Hospital.
650 7 Hospitals. **$2** fast **$0** (OCoLC)fst00961166
650 7 Pharmacy. **$2** fast **$0** (OCoLC)fst01060285
655 0 Electronic journals.
655 2 Periodical.
655 7 Periodicals. **$2** fast **$0** (OCoLC)fst01411641
655 7 Periodicals. **$2** rbgenr
710 2 Canadian Society of Hospital Pharmacists.
776 1 **$t** Canadian journal of hospital pharmacy **$x** 0008-4123 **$w** (DLC)cn 79310912 **$w** (OCoLC)1553145

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776 1 **$t** Journal canadien de la pharmacie hospitalière = **$x** 0008-4123 **$w** (DLC)cn 88030075 **$w** (OCoLC)17311890

776 1 **$t** Canadian journal of hospital pharmacy (1990) **$x** 0008-4123 **$w** (DLC)cn 95300531 **$w** (OCoLC)32003171

780 0 0 **$t** Hospital pharmacist.

856 4 0 **$u** http://www.cjhp-online.ca/index.php/cjhp/index

856 4 0 **$u** http://www.ncbi.nlm.nih.gov/pmc/journals/1115/

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029 0 OCLCS **$b** OP-43570

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029 1 NZ1 **$b** 16175532

029 1 NLC **$b** 000000087773

029 1 AU@ **$b** 000075748477

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LC control no.: sh2009126528
LCCN Permalink: https://lccn.loc.gov/sh2009126528
HEADING: Hospitals Periodicals

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035 __ |**a** (DLC)443098
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667 __ |**a** Record generated for validation purposes.
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906 __ |**t** 8888 |**u** tc00 |**v** 0
953 __ |**a** tc00

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