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510    1#$91 $aMEDLINE $bv25n1, 2008-
510    1#$91 $aPubMed $bv25n1, 2008-
530    ##$aAlso issued online.
650    12$aBiotechnology
655    #2$aPeriodical
710    2#$aEuropean Federation of Biotechnology.
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856    4#$uhttp://www.sciencedirect.com/science/journal/18716784
911    ##$aElectronic and print, print canceled 2018
914    ##$aPortico $bCurrent to 2022 as of 20220118 $cISSN_18716784
935    ##$a(DNLM)1465345-nlmdb
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993    ##$aEJL $b20080716
994    ##$aCDN $b20080716
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999    ##$aAUTH
035    ##$a(OCoLC)236073824
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ATTACHMENT 1b

Biotechnology MeSH Descriptor Data 2023

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Biotechnology
Tree Number(s)
H01.158.550
J01.897.120
Unique ID
D001709
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D001709
Scope Note
Body of knowledge related to the use of organisms, cells or cell-derived constituents for the purpose of developing products which are technically, scientifically and clinically useful. Alteration of biologic function at the molecular level (i.e., GENETIC ENGINEERING) is a central focus; laboratory methods used include TRANSFECTION and CLONING technologies, sequence and structure analysis algorithms, computer databases, and gene and protein structure function analysis and prediction.
Entry Version
BIOTECHNOL
See Also
Genetic Engineering
Recombinant Proteins
Public MeSH Note
87
History Note
87
Date Established
1987/01/01
Date of Entry
1986/03/27
Revision Date
2009/07/10

page delivered in 0.27s

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Bethesda, MD 20894

Web Policies
FOIA
HHS Vulnerability Disclosure

NLM Support Center
Accessibility
Careers

ATTACHMENT 1c

OCLC 236073824 **No holdings in XXX - 59 other holdings**

Continuing Resources

Rec Stat	c	**Entered**	20080204	**Replaced**	20221031160121.6						
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S/L	0	**Orig**		**EntW**		**Regl**	r	**Alph**	a		
Desc	a	**SrTp**	p	**Cont**		**DtSt**	c	**Dates**	2008 ,	9999	

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016 7 101465345 $2 DNLM
016 7 014676283 $2 Uk
019 234236822 $a 1064432035
022 1871-6784 $l 1871-6784 $2 j
032 004046 $b USPS
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260 Amsterdam : $b Elsevier
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321 Bimonthly, $b -2017
321 Eight no. a year, $b 2018
336 text $b txt $2 rdacontent
337 unmediated $b n $2 rdamedia
362 1 Began with vol. 25, issue 1, published in 2008.
550 Issued by: European Federation of Biotechnology, 2008-
588 Description based on first issue; title from t.p.
650 0 Biotechnology $v Periodicals.
650 12 Biotechnology.
650 7 Biotechnology. $2 fast $0 (OCoLC)fst00832729
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710 2 European Federation of Biotechnology.
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780 00 $t Biomolecular engineering $x 1389-0344 $w (DLC) 00251100 $w (OCoLC)43301758
850 DLC $a DNLM
856 4 $u http://www.sciencedirect.com/science/journal/18716784

ATTACHMENT 1d

LIBRARY OF CONGRESS AUTHORITIES

LC control no.: sh2007101988

LCCN Permalink: https://lccn.loc.gov/sh2007101988

HEADING: Biotechnology Periodicals

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001 7417007
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670 __ |**a** Work cat.: American journal of biochemistry and biotechnology, 2005-
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Washington, DC 20540

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

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ATTACHMENT 2a

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ATTACHMENT 2b

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

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HEADING: Cytology Periodicals

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667 __ |**a** Record generated for validation purposes.
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906 __ |**t** 8888 |**u** te00 |**v** 0
953 __ |**a** te00

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

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ATTACHMENT 2c

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

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670 __ |**a** Work cat.: Annual report of the Kitasato Institute,
906 __ |**t** 8888 |**u** te00 |**v** 0
953 __ |**a** te00

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

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ATTACHMENT 2d

OCLC 6492263 **No holdings in XXX - 551 other holdings**

Continuing Resources

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222 0 Molecular and cellular biology $b (Print)
245 00 Molecular and cellular biology.
246 30 MCB $f Jan. 1992-
260 [Washington, D.C.] : $b American Society for Microbiology, $c 1981-
300 volumes : $b illustrations ; $c 26 cm
310 Twice monthly, $b 2000-
321 Monthly, $b 1981-1999
336 text $b txt $2 rdacontent
337 unmediated $b n $2 rdamedia
338 volume $b nc $2 rdacarrier
362 0 Vol. 1, no. 1 (Jan. 1981)-
500 At head of title: MCB, <Jan. 1992-

500 Title from cover.
510 2 Chemical abstracts $x 0009-2258
530 Also issued in an online version.
580 Cumulated annually on CD-ROM with same title; also available as part of ASM journals on CD.
588 Latest issue consulted: Vol. 20, no. 1 (Jan. 2000) (surrogate).
650 0 Microbiology $v Periodicals.
650 0 Cytology $v Periodicals.
650 6 Biologie moléculaire $v Périodiques.
650 6 Cytologie $v Périodiques.
650 7 42.15 cytology, cell biology and cell physiology. $0 (NL-LeOCL)077603044 $2 bcl
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650 2 Molecular Biology. $0 (DNLM)D008967
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655 4 Fulltext.
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655 4 Internet Resources.
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850 CoFS $a CoU $a CtW $a CtY-KS $a CtY-M $a DLC $a DNAL $a DNLM $a DeU $a GASU $a GAT $a GEU $a GU $a ICU $a ICarbS $a IEN $a INS $a IU $a IU-M $a IaAS $a IaU $a InLP $a InU $a InU-M $a IyU-M $a KMK
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856 41 $u http://www.ncbi.nlm.nih.gov/pmc/journals/91/
856 41 $z Also available online: $u http://mcb.asm.org/

ATTACHMENT 3a

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362    0#$aVol. 1, no. 1 (Jan. 1999)-
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510    1#$aIndex medicus
530    ##$aFull text also available to subscribers online via the
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580    ##$aCompanion journal to: Metabolic engineering
communications.
583    ##$3v. 1, no. 1 (Jan. 1999) $c20000718 $fNotice published
$lPrinted on acid-free paper that meets the full ANSI standard for
Permanent Paper
650    12$aBiomedical Engineering
650    22$aBiotechnology
650    22$aMetabolism
655    #2$aPeriodical
776    1#$tMetabolic engineering (Online) $x1096-7184 $w(DLC)sn
97001449 $w(OCoLC)37865872
787    08$iComplemented by (work): $tMetabolic engineering
communications $x2214-0301 $w(OCoLC)900312830 $w(DNLM)101642117
856    4#$uhttp://www.sciencedirect.com/science/journal/10967176
911    ##$aElectronic and print, print canceled 2018
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ATTACHMENT 3b

Biomedical Engineering MeSH Descriptor Data 2023

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Biomedical Engineering
Tree Number(s)
H02.070
J01.293.140
Unique ID
D001698
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D001698
Scope Note
Application of principles and practices of engineering science to biomedical research and health care.
Entry Version
BIOMED ENGINEERING
Entry Term(s)
Clinical Engineering
Engineering, Biomedical
Engineering, Clinical
See Also
Biomedical Technology
Electronics, Medical
Medical Informatics Applications
Public MeSH Note
68
History Note
68
Date Established
1968/01/01
Date of Entry
1999/01/01
Revision Date
2009/07/06

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ATTACHMENT 3c

Metabolism MeSH Descriptor Data 2023

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Metabolism
Tree Number(s)
G03
Unique ID
D008660
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D008660
Annotation
general only as metabolic process/phenomena irrespective of substance; prefer /metab with organs, organisms, diseases, substances
Scope Note
The chemical reactions in living organisms by which energy is provided for vital processes and activities and new material is assimilated.
Entry Version
METAB
Entry Term(s)
Anabolism
Catabolism
Metabolic Concepts
Metabolic Phenomena
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Metabolic Process
Metabolic Processes
Metabolism Concepts
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Process, Metabolic
Processes, Metabolic
Public MeSH Note
TISSUE METABOLISM was heading 1963-65
History Note
METABOLIC PROCESSES was NON MESH 1992-97; TISSUE METABOLISM was heading 1963-65
Date Established
1960/01/01
Date of Entry
1999/01/01
Revision Date
2016/07/01

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ATTACHMENT 3d

OCLC 37861577 **No holdings in XXX - 113 other holdings**

Continuing Resources

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030 MEENFM
042 pcc
050 00 TP248.3 $b .M48
060 00 W1 $b ME961LR
082 10 660 $2 13
090 $b
210 0 Metab. eng. $b (Print)
222 0 Metabolic engineering $b (Print)
245 00 Metabolic engineering.
260 $3 1999- : $a Brugge, Belgium ; $a Orlando, FL : $b Academic Press, $c ©1999-
260 3 $3 <2013- : $a Amsterdam, the Netherlands : $b Elsevier
300 volumes : $b illustrations ; $c 28 cm
310 Quarterly
336 text $b txt $2 rdacontent
337 unmediated $b n $2 rdamedia
338 volume $b nc $2 rdacarrier
362 0 Vol. 1, no. 1 (Jan. 1999)-
500 Title from cover.
510 0 Chemical abstracts $x 0009-2258
530 Full text also available to subscribers online via the World Wide Web; tables of contents and abstracts freely available.
580 Companion journal to: Metabolic engineering communications.
650 0 Biochemical engineering $v Periodicals.
650 0 Metabolism $v Periodicals.
650 12 Biomedical Engineering.

650 22 Biotechnology.
650 22 Metabolism.
650 7 Biochemical engineering. $2 fast $0 (OCoLC)fst00831936
650 7 Metabolism. $2 fast $0 (OCoLC)fst01017473
650 17 Biochemie. $2 gtt
650 07 Biomedizinische Technik. $2 swd
650 07 Zeitschrift. $2 swd
650 07 Online-Publikation. $2 swd
650 07 Metabolit. $2 swd
650 07 Technik. $2 swd
650 07 Biologisches System. $2 swd
650 07 Stoffwechsel. $2 swd
650 07 Modifizierung. $2 swd
650 07 Gentechnologie. $2 swd
650 07 Biotechnologie. $2 swd
655 2 Periodicals.
655 7 Periodicals. $2 fast $0 (OCoLC)fst01411641
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776 1 $t Metabolic engineering (Online) $x 1096-7184 $w (DLC)sn 97001449 $w (OCoLC)37865872
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850   DLC $a DNLM
856 41 $u http://www.sciencedirect.com/science/journal/10967176
856 4 $u http://firstsearch.oclc.org $z Address for accessing the journal using authorization number and password through OCLC FirstSearch Electronic Collections Online. Subscription to online journal required for access to abstracts and full text
856 4 $u http://firstsearch.oclc.org/journal=1096-7176;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

ATTACHMENT 3e

LIBRARY OF CONGRESS AUTHORITIES

LC control no.: sh2009117040
LCCN Permalink: https://lccn.loc.gov/sh2009117040
HEADING: Biochemical engineering Periodicals

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001 7908511
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667 __ |**a** Record generated for validation purposes.
670 __ |**a** Work cat.: Process biochemistry international, c1990
906 __ |**t** 8888 |**u** tc00 |**v** 0
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ATTACHMENT 3f

LIBRARY OF CONGRESS AUTHORITIES

LC control no.: sh2010101541
LCCN Permalink: https://lccn.loc.gov/sh2010101541
HEADING: Metabolism Periodicals

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001 8157031
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040 __ |**a** DLC |**b** eng |**c** DLC
150 __ |**a** Metabolism |**v** Periodicals
667 __ |**a** Record generated for validation purposes.
670 __ |**a** Work cat.: Recent research developments in endocrinology & metabolism, 2003
906 __ |**t** 8888 |**u** tc00 |**v** 0
953 __ |**a** tc00

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ATTACHMENT 5a

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

MARC Bibliographic Record

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040		$aOLA$beng$cOLA$dNSD$dGUA$dNLM$dAGL$dNST$dNSD$dNST$dNSD$dNST$dNLM$dAGL$dEBZ$dAGL$dDLC$dUMC
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Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

090 $aQR53$b.J68

210 0_ $aJ. ind. microbiol.

222 _0 $aJournal of industrial microbiology

245 00 $aJournal of industrial microbiology.

260 $aAmsterdam, The Netherlands :$bPublished by Elsevier Science Publishers on behalf of the Society for Industrial Microbiology,$cc1986-c1996.

300 $a17 volumes :$billustrations ;$c27 cm

310 $aMonthly,$b<Jan.>-Aug. 1996

321 $aSix issues a year,$b1986-

336 $atext$btxt$2rdacontent

337 $aunmediated$bn$2rdamedia

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362 0_ $aVol. 1, no. 1 (Mar. 1986)-v. 17, no. 2 (Aug. 1996).

500 $aTitle from cover.

510 2_ $aBiological abstracts$x0006-3169$b1986-

510 2_ $aChemical abstracts$x0009-2258$b1986-

510 2_ $aBIOTECHSEEK$b1990-

510 0_ $aBibliography of agriculture$x0006-1530$bv. 18, no. 4, 1991.

515 $aTwo vols. published each year, <1996>

525 $aIncludes a supplement issue.

650 _0 $aIndustrial microbiology$vPeriodicals.

650 _2 $aMicrobiological Techniques$vperiodicals.

650 _2 $aMicrobiology$vperiodicals.

710 2_ $aSociety for Industrial Microbiology (U.S.)

770 0_ $tDevelopments in industrial microbiology$x0070-4563$w(DLC) 60013953$w(OCoLC)01425924

785 00 $tJournal of industrial microbiology & biotechnology$w(OCoLC)36152461$w(DLC)sn 97050111

997 $aMARCIVE

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

MMS IDs

Document ID:

999578204802121

Network Electronic IDs:

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ATTACHMENT 5b

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

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450 __ |**a** Microorganisms |**x** Industrial applications
550 __ |**w** g |**a** Biotechnology
550 __ |**w** g |**a** Microbiology
670 __ |**a** 93-118157: Rotheim, P. Commercial microorganism industry, c1986.
906 __ |**t** 9323 |**u** te03 |**v** 0
953 __ |**a** xx00 |**b** ta25

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ATTACHMENT 5c

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

LC control no.: sh 85099890

LCCN Permalink: https://lccn.loc.gov/sh85099890

HEADING: Periodicals

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040 __ |**a** DLC |**c** DLC |**d** DLC

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360 __ |**i** subdivision |**a** Periodicals |**i** under specific subjects, e.g. |**a** Engineering--Periodicals; United States--History--Periodicals

450 __ |**a** Journals (Periodicals)

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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

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

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ATTACHMENT 5d

OCLC 13509063 **No holdings in XXX - 137 other holdings**

Continuing Resources

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037 $b Elsevier Science Publishers, Journal Information Center, 52 Vanderbilt Ave., New York, NY 10017
042 pcc $a nsdp
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070 0 QR53.J68
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210 0 J. ind. microbiol.
222 0 Journal of industrial microbiology
245 00 Journal of industrial microbiology.
260 Amsterdam, The Netherlands : $b Published by Elsevier Science Publishers on behalf of the Society for Industrial Microbiology, $c ©1986-©1996.
300 17 volumes : $b illustrations ; $c 27 cm
310 Monthly, $b <Jan.-Aug. 1996
321 Six issues a year, $b 1986-
336 text $b txt $2 rdacontent
337 unmediated $b n $2 rdamedia
338 volume $b nc $2 rdacarrier
362 0 Vol. 1, no. 1 (Mar. 1986)-v. 17, no. 2 (Aug. 1996).
500 Title from cover.
510 2 Chemical abstracts $x 0009-2258 $b 1986-
515 Two vols. published each year, <1996
525 Includes a supplement issue.

530 Also issued online.
650 0 Industrial microbiology $v Periodicals.
650 0 Industrial microbiology $x Periodicals.
650 0 Microbiology.
650 2 Microbiological Techniques $0 (DNLM)D008828
650 2 Microbiology $0 (DNLM)D008829
650 6 Microbiologie industrielle $0 (CaQQLa)201-0014954 $x Périodiques. $0 (CaQQLa)201-0378415
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650 6 Microbiologie. $0 (CaQQLa)201-0003856
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650 7 Microbiology. $2 fast $0 (OCoLC)fst01019576
650 7 Industrial microbiology. $2 fast $0 (OCoLC)fst00971352
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710 2 Society for Industrial Microbiology (U.S.)
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856 41 $u http://www.springerlink.com/openurl.asp?genre=journal&issn=1367-5435 $z On website of later title

ATTACHMENT 5e

LIBRARY OF CONGRESS AUTHORITIES

LC control no.: sh 85084783

LCCN Permalink: https://lccn.loc.gov/sh85084783

HEADING: Microbiology

000 00828cz a2200205n 450

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005 20120327093810.0

008 860211i| anannbabn |a ana

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035 __ |**a** (DLC)sh 85084783

035 __ |**a** (DLC)81919

040 __ |**a** DLC |**c** DLC |**d** DLC

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360 __ |**i** subdivision |**a** Microbiology |**i** under individual animals and groups of animals, individual plants and groups of plants, individual diseases and types of diseases, individual organs and regions of the body, and individual materials and types of materials, e.g. |**a** Fishes--Microbiology; Corn--Microbiology; Tuberculosis--Microbiology; Heart--Microbiology; Metals--Microbiology

450 __ |**a** Microbial biology

550 __ |**w** g |**a** Biology

550 __ |**a** Microorganisms

906 __ |**t** 9319 |**u** te03 |**v** 0

953 __ |**a** xx00 |**b** ta25

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ATTACHMENT 6a

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

MARC Bibliographic Record

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082	00	$a363.19/2$220
245	00	$aGenetically modified foods :$bsafety issues /$cKarl-Heinz Engel, Gary R. Takeoka, Roy Teranishi, [editors].
264	_1	$aWashington, DC :$bAmerican Chemical Society,$c1995.
300		$ax, 243 pages :$billustrations ;$c24 cm.
336		$atext$btxt$2rdacontent

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

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338		$avolume$bnc$2rdacarrier
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504		$aIncludes bibliographical references and indexes.
650	_0	$aFood$xBiotechnology$vCongresses.
650	_0	$aCrops$xGenetic engineering$vCongresses.
700	1_	$aEngel, Karl-Heinz,$d1954-
700	1_	$aTakeoka, Gary R.
700	1_	$aTeranishi, Roy,$d1922-2000.
710	2_	$aAmerican Chemical Society.$bDivision of Agricultural and Food Chemistry.
710	2_	$aAmerican Chemical Society.$bMeeting$n(208th :$d1994 :$cWashington, D.C.)
830	_0	$aACS symposium series ;$v605.
997		$aMARCIVE

MMS IDs

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Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

Network Physical IDs:

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ATTACHMENT 6b

OCLC 32924343 **No holdings in XXX - 261 other holdings**

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080 664.8 $b G46
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084 58.20 $2 bcl
084 58.30 $2 bcl
084 58.34 $2 bcl
090 $b
245 00 Genetically modified foods : $b safety issues / $c Karl-Heinz Engel, Gary R. Takeoka, Roy Teranishi, [editors].
260 Washington, DC : $b American Chemical Society, $c 1995.
300 x, 243 pages : $b illustrations ; $c 24 cm.
336 text $b txt $2 rdacontent
337 unmediated $b n $2 rdamedia
338 volume $b nc $2 rdacarrier
490 1 ACS symposium series ; $v 605
500 "Developed from a symposium sponsored by the Division of Agricultural and Food Chemistry at the 208th National Meeting of the American Chemical Society, Washington, DC, August 21-25, 1994."
504 Includes bibliographical references and indexes.
505 0 Foods and food ingredients produced via recombinant DNA techniques : an overview / Karl-Heinz Engel, Gary R. Takeoka, and Roy Teranishi -- U.S. Food and Drug Administration policy for foods developed by biotechnology / J.H. Maryanski -- Regulatory oversight and safety assessment of genetically modified foods in the European Union / K.-H. Engel [and others] -- Administrative oversight to ensure safety of biotechnologically produced foods in Japan / Ryoji Takahara -- The role of the public and federal advisory committees in providing advice to the government on agricultural science policy /

Alvin L. Young and Daniel D. Jones -- Safety assessment of flavor ingredients produced by genetically modified organisms / J.B. Hallagan and R.L. Hall -- Determination of the safety of genetically engineered crops / Keith Redenbaugh [and others] -- Exotic germ plasm or engineered genes : comparison of genetic strategies to improve fruit quality / Alan B. Bennett, Roger Chetelat, and Ellen Klann -- The potential for allergenicity in transgenic foods / Oscar L. Frick -- Use of plant virus genes to produce disease-resistant crops / Lynn E. Murry -- Molecular cloning of cereal cystatins and evaluation of their antiviral and antipest effects / S. Arai [and others] -- Safety assessment of the Bacillus thuringiensis insecticidal crystal protein CRYIA(b) expressed in transgenic tomatoes / H.P.J.M. Noteborn [and others] -- Safety assessment of potatoes resistant to Colorado potato beetle / P.B. Lavrik [and others] -- Improvement of beer brewing by using genetically modified yeast / J. Vogel, K. Wackerbauer, and U. Stahl -- Genetic modification of brewer's yeast to produce acetolactate decarboxylase and the safety aspects of the beer brewed by the transformed yeast / R. Takahashi [and others] -- Safety aspects of genetically modified lactic acid bacteria / W.P. Hammes, C. Hertel, and C. Cavadini -- Enzymes from genetically modified microorganisms / Sven Pedersen, Bent F. Jensen, and Steen T. Jørgensen -- Progress in genetic modifications of farm animals / V.G. Pursel.
650 0 Genetically modified foods $v Congresses.
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653 0 Crops $a Congresses $a Genetic engineering
653 0 Food $a Congresses $a Biotechnology
653 0 Genetically modified foods $a Congresses
653 00 genetische modificatie
653 00 genetic engineering
653 00 recombinant dna

653 00 food hygiene
653 00 voedingstoestand
653 00 nutritional state
653 00 consumptiepatronen
653 00 consumption patterns
653 00 voedselindustrie
653 00 food industry
653 00 voedseltechnologie
653 00 food technology
653 00 voedingsmiddelen
653 00 foods
653 00 voedselkwaliteit
653 00 food quality
653 00 kwaliteitscontroles
653 00 quality controls
653 00 voedselinspectie
653 00 food inspection
653 00 toxicologie
653 00 toxicology
653 10 Biosafety, Risk Evaluation
653 20 Genetic Engineering
653 10 Bioveiligheid, risico-evaluatie
653 20 Genetische modificatie
655 4 Conference proceedings.
655 7 Conference papers and proceedings. $2 fast $0 (OCoLC)fst01423772
700 1 Engel, Karl-Heinz, $d 1954-
700 1 Takeoka, Gary R.
700 1 Teranishi, Roy, $d 1922-2000.
710 2 American Chemical Society. $b Division of Agricultural and Food Chemistry.
710 2 American Chemical Society. $b Meeting $n (208th : $d 1994 : $c Washington, D.C.)
830 0 ACS symposium series ; $v 605.
856 41 $3 Table of contents $u http://catdir.loc.gov/catdir/enhancements/fy0640/95031995-t.html
856 41 $3 Table of contents $u http://www.gbv.de/dms/bowker/toc/9780841233201.pdf
856 42 $3 Publisher description $u http://catdir.loc.gov/catdir/enhancements/fy0640/95031995-d.html
856 41 $u http://pubs.acs.org/doi/book/10.1021/bk-1995-0605 $z Full text available from ACS Symposium Series (1974-2012) $z Rutgers restricted

ATTACHMENT 6c

LC control no.: sh 00006274

LCCN Permalink: https://lccn.loc.gov/sh00006274

HEADING: Genetically modified foods

000 01597cz a2200301n 450

001 5083434

005 20120320083318.0

008 000424i| anannbabn |a ana c

010 __ |**a** sh 00006274

035 __ |**a** (DLC)5083434

035 __ |**a** (DLC)sh 00006274

035 __ |**a** (DLC)258132

040 __ |**a** CaAE |**b** eng |**c** DLC

150 __ |**a** Genetically modified foods

450 __ |**a** GM foods

450 __ |**a** Genetically engineered foods

550 __ |**w** g |**a** Food

550 __ |**a** Food |**x** Biotechnology

670 __ |**a** Work cat.: Health Canada. FAQ on genetically modified food, 1999 |**b** ("... foods that have been modified by genetic engineering ... described as genetically modified foods (often referred to as GM foods, genetically engineered foods or biotechnology-derived foods)")

670 __ |**a** Great Britain’s Parliamentary Office of Science and Technology. Genetically modified foods : benefits and risks, regulation and public acceptance, 1998.

670 __ |**a** Genetically modified foods : safety issues, 1995.

670 __ |**a** Hawkes, N. Genetically modified foods, 2000.

670 __ |**a** MAFF (Great Britain Ministry of Agriculture, Fisheries and Food, Additives and Novel Foods Division), www site, Jan. 11, 2000.

670 __ |**a** Washington (Reuters), Jan. 10, 2000: |**b** U.S. Unlikely to Require Labels on Biotech Foods (The federal government is not likely to require U.S. manufacturers and grocery stores to put labels on genetically modified food, U.S. Agriculture Secretary Dan Glickman said ...)

906 __ |**t** 0019 |**u** te07 |**v** 0

952 __ |**a** 0 bib. record(s) to be changed

952 __ |**a** LC pattern: Artificial foods

953 __ |**a** yz00

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ATTACHMENT 6d

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

LC control no.: sh 85031115

LCCN Permalink: https://lccn.loc.gov/sh85031115

HEADING: Congresses and conventions

000 01730cz a2200337n 450

001 4683355

005 20140118055927.0

008 860211i| anannbabn |b ana

010 __ |**a** sh 85031115

035 __ |**a** (DLC)sh 85031115

035 __ |**a** (DLC)30040

040 __ |**a** DLC |**c** DLC |**d** DLC |**d** WaU |**d** DLC

053 _0 |**a** AS

150 __ |**a** Congresses and conventions

360 __ |**i** subdivision |**a** Congresses |**i** under subjects; and names of individual congresses

450 __ |**a** Colloquia

450 __ |**a** Colloquiums

450 __ |**a** Conferences

450 __ |**a** Conventions (Congresses)

450 __ |**a** International conferences, congresses and conventions

450 __ |**a** Symposia

450 __ |**a** Symposiums

550 __ |**w** g |**a** Intellectual cooperation

550 __ |**a** Convention facilities

670 __ |**a** Random House Kernerman Webster's college dictionary, ©2010, via TheFreeDictionary.com, Aug. 29, 2013 |**b** (colloquium n., pl. -quiums, -quia a conference at which scholars or other experts present papers on and discuss a specific topic)

670 __ |**a** The American heritage dictionary of the English language, ©2000, via TheFreeDictionary.com, Aug. 29, 2013 |**b** (colloquium n. pl. colloquiums or colloquia 1. An informal meeting for the exchange of views. 2. An academic seminar on a broad field of study, usually led by a different lecturer at each meeting.)

670 __ |**a** Merriam-Webster online, Aug. 29, 2013 |**b** (colloqium plural colloquiums or -quia: a usually academic meeting at which specialists deliver addresses on a topic or on related topics and then answer questions relating to them)

906 __ |**t** 9921 |**u** te04 |**v** 0

910 __ |**a** Record saved by ec04 on 01/17/2014 at 16:02:37
910 __ |**a** Record saved by ec11 on 09/03/2013 at 08:55:33
953 __ |**a** xx00 |**b** sg08

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ATTACHMENT 6e

LIBRARY OF CONGRESS AUTHORITIES

LC control no.: sh2009125325
LCCN Permalink: https://lccn.loc.gov/sh2009125325
HEADING: Food Biotechnology Congresses

000 00466cz a2200169n 450
001 8052320
005 20110729162651.0
008 091013|| anannbabn |n ana
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035 __ |**a** (DLC)441356
035 __ |**a** (DLC)sh2009125325
040 __ |**a** DLC |**b** eng |**c** DLC
150 __ |**a** Food |**x** Biotechnology |**v** Congresses
667 __ |**a** Record generated for validation purposes.
670 __ |**a** Work cat.: Genetically modified foods, 1995
906 __ |**t** 8888 |**u** tc00 |**v** 0
953 __ |**a** tc00

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ATTACHMENT 6f

LIBRARY OF CONGRESS AUTHORITIES

LC control no.: sh2009122609
LCCN Permalink: https://lccn.loc.gov/sh2009122609
HEADING: Crops Genetic engineering Congresses

000 00481cz a2200169n 450
001 8006898
005 20110729162508.0
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010 __ |**a** sh2009122609
035 __ |**a** (DLC)436969
035 __ |**a** (DLC)sh2009122609
040 __ |**a** DLC |**b** eng |**c** DLC
150 __ |**a** Crops |**x** Genetic engineering |**v** Congresses
667 __ |**a** Record generated for validation purposes.
670 __ |**a** Work cat.: Genetic engineering of crop plants, 1990
906 __ |**t** 8888 |**u** tc00 |**v** 0
953 __ |**a** tc00

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ATTACHMENT 6g

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

LC control no.: sh 85053855
LCCN Permalink: https://lccn.loc.gov/sh85053855
HEADING: Genetic engineering

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001 4705365
005 20120326093947.0
008 860211i| anannbabn |b ana
010 __ |**a** sh 85053855
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035 __ |**a** (DLC)52050
040 __ |**a** DLC |**c** DLC |**d** DLC
053 _0 |**a** QH442 |**b** QH442.2 |**c** Genetics
053 _0 |**a** TP248.6 |**c** Chemical technology
150 __ |**a** Genetic engineering
450 __ |**a** Designed genetic change
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450 __ |**a** Gene splicing
450 __ |**a** Genetic intervention
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550 __ |**w** g |**a** Genetic recombination
550 __ |**a** Biotechnology
550 __ |**a** Transgenic organisms
906 __ |**t** 9319 |**u** te03 |**v** 1
953 __ |**a** xx00 |**b** jb03

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ATTACHMENT 6h

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

LC control no.: sh 90003137
LCCN Permalink: https://lccn.loc.gov/sh90003137
HEADING: Transgenic plants

000 03387cz a2200505n 450
001 5068399
005 20120504060208.0
008 900627i| anannbabn |a ana
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035 __ |**a** (DLC)4832596
035 __ |**a** (DLC)sp 90003137
035 __ |**a** (DLC)255993
040 __ |**a** DLC |**c** DLC |**d** DLC |**d** WaU
053 _0 |**a** SB123.57 |**c** Crops
150 __ |**a** Transgenic plants
450 __ |**a** GE crops (Genetically engineered crops)
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450 __ |**a** Genetically engineered plants
450 __ |**a** Genetically modified crops
450 __ |**a** Genetically modified plants
450 __ |**a** GM crops (Genetically modified crops)
450 __ |**a** GM plants (Genetically modified plants)
450 __ |**a** Novel crops
450 __ |**a** Transgenic crops
550 __ |**w** g |**a** Plants, Cultivated
550 __ |**w** g |**a** Transgenic organisms
550 __ |**a** Plant genetic engineering
670 __ |**a** Work cat.: Plant genetic engineering, 1990 |**b** (transgenic plants)
670 __ |**a** McGraw-Hill dict. sci. tech.: |**b** p. 1954 (transgenic organism)
670 __ |**a** Transgenic plants, 1992 |**b** (transgenic crops)
670 __ |**a** Kjellsson, G. Methods for risk assessment of transgenic plants, c1994: |**b** CIP pref. (transgenetic plants ... referred to as genetically modified plants)

670 __ |**a** Safety assessment process for novel foods and agricultural products of biotechnology, 1999: |**b** p. 1 (Novel crops, including those developed using genetic engineering, are produced in laboratories, and studied in growth chambers or greenhouses under conditions of environmental isolation ... The Canadian Food Inspection Agency (CFIA) regulates the confined field trial evaluation of all novel crops. Conditions prescribed by the CFIA are designed to minimize the possibility of any environmental impact.)

670 __ |**a** National Agricultural Biotechnology Council's website, Jan. 11, 2000: |**b** NABC Report 8 (Novel crops and other transgenics: How green are they?)

670 __ |**a** National Institute of Agrobiological Resources (Japan) website, Jan. 11, 2000 |**b** (Use of biotechnology to develop new biological resources ... we are producing novel crops, reflecting genetic diversity, which conventional breeding procedures cannot produce.)

670 __ |**a** Plant gene technology, c2009: |**b** t.p. (genetically modified (GM) crops) p. 3 (GM plants; When gene technology is used to develop new plant varieties through the direct incorporation of a DNA construct or the deletion or modification of specific genes, the resulting plants are known as genetically modified (GM), genetically engineered (GE) or transgenic plants) p. 4 (GM crops)

670 __ |**a** National Research Council (U.S.). Committee on the Impact of Biotechnology on Farm-Level Economics and Sustainability. The impact of genetically engineered crops on farm sustainability in the United States, c2010: |**b** p. vii (genetically engineered (GE) crops; GE crops) p. 50 (GE plants)

670 __ |**a** Stewart, C.N. Genetically modified planet : environmental impacts of genetically engineered plants, 2004.

675 __ |**a** Web. 3; |**a** Random House; |**a** Biol. & agr. index, v. 42

906 __ |**t** 0011 |**u** te07 |**v** 0

910 __ |**a** Proposal saved by tc03 on 04/26/2012 at 09:21:54

952 __ |**a** LC pattern: Transgenic animals; Rare plants

953 __ |**a** ff05 |**b** ec06

906 __ |**t** 1204 |**v** 0

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ATTACHMENT 6i

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

LC control no.: sh 85034246
LCCN Permalink: https://lccn.loc.gov/sh85034246
HEADING: Crop zones

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001 4686405
005 20120323071642.0
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035 __ |**a** (DLC)33090
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450 __ |**a** Zones, Crop
550 __ |**w** g |**a** Agricultural geography
550 __ |**w** g |**a** Life zones
906 __ |**t** 8828 |**u** fk05 |**v** 1
953 __ |**a** xx00 |**b** ff05

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Copyright Catalog (1978 to present)
Search Request: Left Anchored Title = genetically modified foods
Search Results: Displaying 5 of 5 entries

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Genetically modified foods : safety issues / Karl-Heinz Engel, editor, Gary...

Type of Work: Text
Registration Number / Date: TX0004199183 / 1996-01-02
Title: Genetically modified foods : safety issues / Karl-Heinz Engel, editor, Gary R. Takeoka, editor, Toy Teranishi, editor.
Imprint: Washington, DC : American Chemical Society, c1995.
Description: 243 p.
Series: ACS symposium series ; 605
Copyright Claimant: American Chemical Society
Date of Creation: 1995
Date of Publication: 1995-10-05
Basis of Claim: New Matter: additions, compilation & revisions.
Variant title: Genetically modified foods : safety issues
Other Title: ACS symposium series ; 605
Names: Engel, Karl-Heinz, 1954-
Takeoka, Gary, 1954-
Teranishi, Roy, 1922-
American Chemical Society

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ATTACHMENT 7a

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008    771116c19769999ne erzp       0   a0eng
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037    ##$bElsevier Science Publishing, Journal Information Center,
655 Avenue of the Americas, New York, NY 10010
040    ##$aDLC $cDLC $dOCL $dNSD $dOCL $dNST $dSER $dRCS $dOCL $dNST
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222    #0$aGene
245    00$aGene.
260    ##$aAmsterdam, $bElsevier/North-Holland, $c1976-
300    ##$av. $c24 cm.
310    ##$aBiweekly, $b<15 July 1992->
321    ##$aMonthly, $b<Jan. 1979->
321    ##$aBimonthly, $b1976-
362    0#$av. 1-
500    ##$a"An international journal focusing on gene cloning and
gene structure and function."
510    1#$aExcerpta medica
510    2#$aBibliography of agriculture $x0006-1530
510    2#$aBiological abstracts $x0006-3169
510    2#$aChemical abstracts $x0009-2258
510    2#$aEnergy information abstracts $x0147-6521
510    2#$aEnergy research abstracts $bMay 1978- $x0160-3604
510    2#$aEnvironment abstracts $x0093-3287
510    2#$aIndex medicus $x0019-3879
510    2#$aLife sciences collection
525    ##$aV.173 includes a separate supplement.
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555    0#$aAuth., 1-3(1976-78) bd w/3; auth., 1-30(1976-84) bd w/30;
auth., 31-50(1984-86) bd w/50; auth., 51-70(1987-88) bd w/70;
auth., 1-100(1976-91) bd w/100.
580    ##$aVols. for 1996- includes separately paged section called:
Gene-combis which is printed version of articles published
electronically in Gene-combis on the World-Wide Web.
650    #0$aGenetic engineering $vPeriodicals
650    #0$aMolecular cloning $vPeriodicals.
650    #0$aRecombinant DNA $vPeriodicals.
740    0#$aGene-combis
850    ##$aAU $aArU-M $aCCC $aCSt-L $aCaMWM $aCaMWU $aCaOKQH $aCaOWA
$aCaOWtU $aCtW $aCtY-M $aDLC $aINS $aIU-M $aIaAS $aInU $aInU-M
$aKyLoU $aLU $aMBCo $aMBU $aMChB $aMH-BL $aMMeT $aMSobPR $aMWhB
$aMdU-H $aMnSU $aNBC $aNCH $aNNStJ $aNcU $aNhU $aNjR $aOrU $aPBL
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901    ##$cSer
936    ##$a15 July 1992
948    ##$aLTI 07/21/2009
948    ##$aLTI 09/04/2009
948    ##$aLTI 02/03/2010
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ATTACHMENT 7b

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

LC control no.: sh2008117864
LCCN Permalink: https://lccn.loc.gov/sh2008117864
HEADING: Genetic engineering Periodicals

000 00474cz a2200169n 450
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005 20110729161202.0
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035 __ |**a** (DLC)sh2008117864
040 __ |**a** DLC |**b** eng |**c** DLC
150 __ |**a** Genetic engineering |**v** Periodicals
667 __ |**a** Record generated for validation purposes.
670 __ |**a** Work cat.: Methods in gene technology, c1991-c1994
906 __ |**t** 8888 |**u** te00 |**v** 0
953 __ |**a** te00

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ATTACHMENT 7c

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

LC control no.: sh 85086580
LCCN Permalink: https://lccn.loc.gov/sh85086580
HEADING: Molecular cloning

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005 20120327094114.0
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053 _0 |**a** QH442.2
150 __ |**a** Molecular cloning
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450 __ |**a** Gene cloning
550 __ |**w** g |**a** Cloning
550 __ |**w** g |**a** Genetic engineering
550 __ |**w** g |**a** Molecular genetics
550 __ |**a** Clone cells
906 __ |**t** 8727 |**u** fk03 |**v** 1
953 __ |**a** xx00 |**b** ff03

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ATTACHMENT 7d

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

LC control no.: sh 85111851
LCCN Permalink: https://lccn.loc.gov/sh85111851
HEADING: Recombinant DNA

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035 __ |**a** (DLC)108011
040 __ |**a** DLC |**c** DLC |**d** DLC
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550 __ |**a** Genetic recombination
550 __ |**a** Genetic vectors
670 __ |**a** Catalogue of bacteria, phages, and rDNA vectors, 1985.
906 __ |**t** 8930 |**u** fk04 |**v** 0
953 __ |**a** xx00 |**b** ff01

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ATTACHMENT 7e

OCLC 3424642 **No holdings in XXX - 407 other holdings**

Continuing Resources

						Rec Stat	**Entered**	19716	**Replaced**	20220809170820.9	
Type	a	**ELvl**		**Srce**		**GPub**		**Ctrl**		**Lang**	eng
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S/L	0	**Orig**		**EntW**		**Regl**	r	**Alph**	a		
Desc		**SrTp**	p	**Cont**		**DtSt**	c	**Dates**	1976 ,	9999	

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016 7 G03740000 $2 DNLM
016 7 008540493 $2 Uk
019 2803842 $a 3453679 $a 3512133 $a 3576416 $a 3698225 $a 4121880 $a 4395140 $a 647424756 $a 933312016 $a 1064460047 $a 1161130803 $a 1172992084 $a 1179411897 $a 1200089812
022 0 0378-1119 $l 0378-1119 $2 j
030 GENED6
032 008729 $b USPS
037 $b Elsevier Science Publishing, Journal Information Center, 655 Avenue of the Americas, New York, NY 10010
041 0 eng $b eng
042 pcc $a nsdp
050 00 QH442 $b .G43
060 00 W1 $b GE184M
082 04 575.1
090 $b
210 0 Gene $b (Amst.)
222 0 Gene $b (Amsterdam)
245 00 Gene.
246 3 Gene-combis
260 Amsterdam : $b Elsevier/North-Holland, $c 1976-
300 volumes $b illustrations $c 24 cm
310 Biweekly, $b <15 July 1992-
321 Bimonthly, $b 1976-
321 Monthly, $b <Jan. 1979-
336 text $b txt $2 rdacontent
337 unmediated $b n $2 rdamedia
338 volume $b nc $2 rdacarrier
362 0 v. 1-

500 "An international journal focusing on gene cloning and gene structure and function."
510 2 Chemical abstracts $x 0009-2258
530 Also issued via World Wide Web by subscription through ScienceDirect (Online service).
580 Vols. for 1996- includes separately paged section called: Gene-combis which is printed version of articles published electronically in Gene-combis on the World-Wide Web.
580 Online version has open access mirror journal: Gene X (Online), published 2019-2020.
588 1 Vol. 295, no. 1 (July 24, 2002).
650 0 Genetic engineering $v Periodicals.
650 0 Molecular cloning $v Periodicals.
650 0 Recombinant DNA $v Periodicals.
650 0 Genetic recombination.
650 2 Molecular Biology $0 (DNLM)D008967
650 2 Recombination, Genetic $0 (DNLM)D011995
650 6 Génie génétique $0 (CaQQLa)201-0022662 $v Périodiques. $0 (CaQQLa)201-0378307
650 6 Clonage moléculaire $0 (CaQQLa)201-0032258 $v Périodiques. $0 (CaQQLa)201-0378307
650 6 ADN recombinant $0 (CaQQLa)201-0024828 $v Périodiques. $0 (CaQQLa)201-0378307
650 6 Recombinaison génétique. $0 (CaQQLa)201-0021147
650 7 Genetic recombination. $2 fast $0 (OCoLC)fst00940079
650 7 Genetic engineering. $2 fast $0 (OCoLC)fst00940027
650 7 Molecular cloning. $2 fast $0 (OCoLC)fst01024762
650 7 Recombinant DNA. $2 fast $0 (OCoLC)fst01091466
650 17 Genetica. $2 gtt
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653 GENETICS
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653 RECOMBINATION
655 2 Periodical $0 (DNLM)D020492
655 4 Fulltext.
655 4 Periodicals.
655 4 Internet Resources.
655 7 Periodicals. $2 fast $0 (OCoLC)fst01411641
655 7 Periodicals. $2 lcgft $0 http://id.loc.gov/authorities/genreForms/gf2014026139 $0 (uri) http://id.loc.gov/authorities/genreForms/gf2014026139
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776 08 $i Online version: $t Gene (Online) $x 1879-0038 $w (OCoLC)752415335
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787 1 $t Gene X $x 2590-1583 $w (DLC) 2019243252 $w (OCoLC)1084234720
850 AU $a ArU-M $a CCC $a CSt-L $a CaMWM $a CaMWU $a CaOKQH $a CaOWA $a CaOWtU $a CtW $a CtY-M $a DLC $a GU $a INS $a IU-M $a IaAS $a InU $a InU-M $a KyLoU $a LU $a MBCo $a MBU $a MChB $a MH-BL $a MMeT $a MSobPR $a MWhB $a MdU-H $a MnSU $a NBC $a NCH $a NNStJ $a NcU $a NhU $a NjR $a OrU $a PBL $a PPD $a PPPCPh $a PPiU $a PPiU-H $a ScCleU $a TxCM $a ULA $a UPB $a ViBlbV $a ViU-H
856 41 $u http://www.sciencedirect.com/science/journal/03781119

ATTACHMENT 7f

ATTACHMENT 8a

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

MARC Bibliographic Record

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035		$a(WU)2798325-uwmadisondb
035		$a(EXLNZ-01UWI_NETWORK)999717567002121
037		$bElsevier Science Publishers, P. O. Box 211, 1000 AE Amsterdam, The Netherlands.
040		$aIES$beng$cIES$dAGL$dDLC$dAIP$dNST$dDLC$dIUL$dNLM$dNST$dm/c$dNSD$dNLM$dOCL$dNSD
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072	_7	$aX300
210	0_	$aFEMS microbiol. rev.
222	_0	$aFEMS microbiology reviews
245	00	$aFEMS microbiology reviews.
246	0_	$aFederation of European Microbiological Societies microbiology reviews
246	10	$aMicrobiology reviews

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

260 $a[Amsterdam] :$bPublished by Elsevier Science Publishers on behalf of the Federation of European Microbiological Societies,$c1985-

300 $avolumes ;$c26 cm

310 $aQuarterly

336 $atext$btxt$2rdacontent

337 $aunmediated$bn$2rdamedia

338 $avolume$bnc$2rdacarrier

362 0_ $aVol. 1 (v.32), no. 1 (Apr. 1985)-

500 $aTitle from cover.

530 $aIssued also in electronic format.

580 $aFrom 1985-1992, issued alternately with: Federation of European Microbiological Societies. FEMS microbiology letters; FEMS microbiology ecology, and: FEMS microbiology immunology. Each section was numbered as part of the main title but was also given a number unique to the section. With 1993, the overall numbering was dropped.

580 $aIndexed in: FEMS microbiology index.

650 _0 $aMicrobiology$vPeriodicals.

650 _2 $aMicrobiology$vperiodicals.

710 2_ $aFederation of European Microbiological Societies.

787 1_ $aFederation of European Microbiological Societies.$tFEMS microbiology letters$x0378-1097$w(DLC) 78642880$w(OCoLC)03217327

787 1_ $tFEMS microbiology ecology$x0168-6496$w(OCoLC)11822491

787 1_ $tFEMS microbiology immunology$x0920-8534$w(OCoLC)17515756

787 1_ $tFEMS microbiology index$w(OCoLC)14763998

997 $aMARCIVE

MMS IDs

Document ID:

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

999717567002121

Network Electronic IDs:

Network Physical IDs:

999717567002121

mms_mad_ids:

9927983253602122

ATTACHMENT 8b

OCLC 12105491 **No holdings in XXX - 215 other holdings**

Continuing Resources

Rec Stat		**Entered**	19850601	**Replaced**	20220810194656.4						
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016 7 009569982 $2 Uk
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022 0 0168-6445 $l 0168-6445 $2 j
030 FMREE4
032 009027 $b USPS
042 pcc
050 00 QR1 $b .F45
060 00 W1 $b FE549D
070 0 QR1.F46
072 0 X300
072 0 X380
082 00 576/.05 $2 20
090 $b
210 1 FEMS microbiol. rev. $b (Print)
222 0 FEMS microbiology reviews $b (Print)
245 00 FEMS microbiology reviews.
246 30 Microbiology reviews
246 3 Federation of European Microbiological Societies microbiology reviews
260 Amsterdam : $b Published by Elsevier Science Publishers on behalf of the Federation of European Microbiological Societies
260 2 $3 2006- : $a Abingdon, UK : $b Wiley
264 31 $3 2015- : $a Oxford : $b Oxford University Press
300 volumes : $b illustrations ; $c 27 cm
310 Six issues per year, $b v. 30, issue 2 (Mar. 2006)-
321 Five no. a year, $b <2001-(Jan. 2006)
321 Quarterly, $b <v. 11/1-3 (July 1993)-

336 text $b txt $2 rdacontent
337 unmediated $b n $2 rdamedia
338 volume $b nc $2 rdacarrier
362 0 Vol. 32, no. 1 (Apr. 1985)-v. 32, no. 3-4 (Apr. 1986); vol. 39/1-2 (July 1986)-v. 104/3-4 (Apr. 1993) = R2/1-2-[R10/3-4] ; vol. 11/1-3 (July 1993)-
500 Published: Oxford : Blackwell Pub., 2006-
500 Title from cover.
510 2 Chemical abstracts $x 0009-2258 $b 1985-
515 Issue for Apr. 1993 lacks R designation but constitutes R10/3-4.
580 Volumes for 1986-1992 also carry vol. numbering continuous with Federation of European Microbiological Societies. FEMS microbiology letters; FEMS microbiology ecology, 1985-Apr. 1993, and: FEMS microbiology immunology, 1988-1992.
580 Indexed in: FEMS microbiology index.
588 Latest issue consulted: Vol. 26, issue 5 (Jan. 2003).
650 0 Microbiology $v Periodicals.
650 0 Microbiology.
650 2 Microbiology $0 (DNLM)D008829
650 2 Review Literature as Topic $0 (DNLM)D012196
650 3 Microbiology $x Research $v Periodicals.
650 4 Microbiologie $v Périodiques.
650 4 Microbiology $v Periodicals.
650 4 Review Literature $v Periodicals.
650 6 Microbiologie $0 (CaQQLa)201-0003856 $v Périodiques. $0 (CaQQLa)201-0378307
650 6 Microbiologie. $0 (CaQQLa)201-0003856
650 6 Revues de la littérature. $0 (CaQQLa)000292132
650 7 microbiology. $2 aat $0 (CStmoGRI)aat300054469
650 7 Microbiology. $2 fast $0 (OCoLC)fst01019576
650 17 Microbiologie. $2 gtt
653 Microbiology
655 0 Electronic journals.
655 2 Periodical $0 (DNLM)D020492
655 7 Periodicals. $2 fast $0 (OCoLC)fst01411641
655 7 Periodicals. $2 lcgft $0 http://id.loc.gov/authorities/genreForms/gf2014026139 $0 (uri) http://id.loc.gov/authorities/genreForms/gf2014026139
710 2 Federation of European Microbiological Societies.
776 08 $i Online version: $t FEMS microbiology reviews (Online) $x 1574-6976 $w (DLC) 2002238929 $w (OCoLC)38873018
787 1 $t FEMS microbiology letters $x 0378-1097 $w (DLC) 78642880 $w (OCoLC)3217327
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787 1 $t FEMS immunology and medical microbiology $x 0928-8244 $w (DLC)sn 93003666 $w (OCoLC)27447797
787 1 $t FEMS microbiology index $w (OCoLC)14763998
850 DLC $a DNAL $a InU $a MBCo
856 41 $u http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1574-6976
856 41 $u http://sciencedirect.com/science/journal/01686445
856 41 $u http://femsre.oxfordjournals.org/content/by/year

ATTACHMENT 9a

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260    ##$aLondon : $bBioMed Central, $c[2002-
310    ##$aAnnual
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362    0#$aVol. 1 (2002)-
500    ##$aTitle from BioMed Central archive volume screen (viewed
Aug. 16, 2002).
510    1#$91 $aMEDLINE $bv8n1, 2009-
510    0#$91 $aPubMed $bv1n1,2002-
510    0#$aPMC
515    ##$aArticles are added consecutively to the current annual
volume.
516    ##$aText (electronic journal) available in HTML and PDF
formats.
538    ##$aSystem requirements: Adobe Acrobat Reader.
538    ##$aMode of access: Internet.
650    12$aCells $xmicrobiology
650    22$aBiotechnology
650    22$aCell Culture Techniques $xstatistics & numerical data
650    22$aGenetics, Microbial
650    22$aRecombinant Proteins
856    40$uhttps://microbialcellfactories.biomedcentral.com/
856    40$uhttps://www.ncbi.nlm.nih.gov/pmc/journals/100/
911    ##$aElectronic only
914    ##$aPortico $bCurrent to 2022 as of 20220118 $cISSN_14752859
935    ##$a(DNLM)1139812-nlmdb
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998    ##$aERMSOA 118128 $b20180920
999    ##$aAUTH
035    ##$a(OCoLC)49659655
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ATTACHMENT 9b

Cells MeSH Descriptor Data 2023

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Cells
Tree Number(s)
A11
Unique ID
D002477
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D002477
Annotation
general; prefer specific cell or specific anatomical term or organism with /cytol; cell stages = CELL CYCLE
Scope Note
The fundamental, structural, and functional units or subunits of living organisms. They are composed of CYTOPLASM containing various ORGANELLES and a CELL MEMBRANE boundary.
Previous Indexing
Cytology (1966-1971)
Public MeSH Note
1972; was see under CYTOLOGY 1963-71
History Note
1972; was see under CYTOLOGY 1963-71
Entry Combination
physiology:Cell Physiological Phenomena
transplantation:Cell Transplantation
Date Established
1972/01/01
Date of Entry
1999/01/01
Revision Date
2018/02/28

page delivered in 0.248s

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ATTACHMENT 9c

Biotechnology MeSH Descriptor Data 2023

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Biotechnology
Tree Number(s)
H01.158.550
J01.897.120
Unique ID
D001709
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D001709
Scope Note
Body of knowledge related to the use of organisms, cells or cell-derived constituents for the purpose of developing products which are technically, scientifically and clinically useful. Alteration of biologic function at the molecular level (i.e., GENETIC ENGINEERING) is a central focus; laboratory methods used include TRANSFECTION and CLONING technologies, sequence and structure analysis algorithms, computer databases, and gene and protein structure function analysis and prediction.
Entry Version
BIOTECHNOL
See Also
Genetic Engineering
Recombinant Proteins
Public MeSH Note
87
History Note
87
Date Established
1987/01/01
Date of Entry
1986/03/27
Revision Date
2009/07/10

page delivered in 0.188s

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Careers

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ATTACHMENT 9d

Cell Culture Techniques MeSH Descriptor Data 2023

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Cell Culture Techniques
Tree Number(s)
E01.370.225.500.223
E05.200.500.265
E05.242.223
E05.481.500.249
Unique ID
D018929
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D018929
Annotation
note category: do not confuse with CELLS, CULTURED
Scope Note
Methods for maintaining or growing CELLS in vitro.
Entry Term(s)
Cell Culture
NLM Classification #
QS 525
Previous Indexing
Tissue Culture (1966-1995)
See Also
Cells, Cultured
Public MeSH Note
2005; see CELL CULTURE 1996-2004
History Note
2005 (1996)
Date Established
1996/01/01
Date of Entry
1995/01/06
Revision Date
2015/07/06

ATTACHMENT 9e

Genetics, Microbial MeSH Descriptor Data 2023

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Genetics, Microbial
Tree Number(s)
H01.158.273.343.330
H01.158.273.540.367
Unique ID
D005827
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D005827
Annotation
specialty; general and unspecified only: prefer /genet with specific microbes
Scope Note
A subdiscipline of genetics which deals with the genetic mechanisms and processes of microorganisms.
Entry Version
GENET MICROBIAL
Entry Term(s)
Microbial Genetics
NLM Classification #
QW 46
Previous Indexing
Genetics (1966-1967)
See Also
Chromosomes, Bacterial
Chromosomes, Fungal
Genome, Microbial
Public MeSH Note
68
History Note
68
Date Established
1968/01/01
Date of Entry
1999/01/01
Revision Date
2019/05/24

ATTACHMENT 9f

Recombinant Proteins MeSH Descriptor Data 2023

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Recombinant Proteins
Tree Number(s)
D12.776.828
Unique ID
D011994
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D011994
Annotation
IM general only; coordinate NIM with specific protein
Scope Note
Proteins prepared by recombinant DNA technology.
Entry Term(s)
Biosynthetic Protein
Biosynthetic Proteins
DNA Recombinant Proteins
Proteins, Biosynthetic
Proteins, Recombinant DNA
Recombinant Protein
Registry Number
0
NLM Classification #
QU 55
Previous Indexing
DNA, Recombinant (1977-1985)
Proteins or specific protein (1966-1985)
Public MeSH Note
86
History Note
86
Date Established
1986/01/01
Date of Entry
1985/03/08
Revision Date
2020/05/27

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ATTACHMENT 9g

OCLC 49659655 **No holdings in XXX - 1287 other holdings**

Continuing Resources

						Rec Stat		**Entered**	20020424	**Replaced**	20211223151821.3
Type	a	**ELvl**		**Srce**	c	**GPub**		**Ctrl**		**Lang**	eng
BLvl	s	**Form**	o	**Conf**	0	**Freq**	a	**MRec**		**Ctry**	enk
S/L	0	**Orig**	s	**EntW**		**Regl**	r	**Alph**			
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010 2002252927
040 VAM $b eng $e pn $c VAM $d WAU $d NLM $d OCLCQ $d CGU $d CUS $d OCLCQ $d HEBIS $d UKMGB $d OCLCQ $d TWT $d OCLCF $d EUW $d OCLCQ $d CASUM $d OCLCA $d OCLCO $d OCLCA $d WT2 $d NLE $d OCLCA $d OCLCQ $d AU@ $d OCLCA $d DLC $d RDF $d OCLCQ $d OCLCO $d LDP $d BWN $d UBY $d OCLCO $d OCLCQ $d CGU
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060 10 W1
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260 London : $b BioMed Central, $c 2002-
310 Annual
336 text $b txt $2 rdacontent
337 computer $b c $2 rdamedia
338 online resource $b cr $2 rdacarrier
362 0 Vol. 1 (2002)-
500 Title from BioMed Central archive volume screen (viewed Aug. 15, 2002).
515 Articles are added consecutively to the current annual volume.
538 Mode of access: World Wide Web.
588 1 Vol. 20, issue 1 (Dec. 2020) (SpringerLink, viewed February 24, 2021)
650 0 Microbial biotechnology $v Periodicals.
650 0 Recombinant proteins $x Synthesis $v Periodicals.
650 7 Histology. $2 ebps
650 7 Microbiology. $2 ebps
650 7 Microbial biotechnology. $2 fast $0 (OCoLC)fst01019471
650 7 Recombinant proteins $x Synthesis. $2 fast $0 (OCoLC)fst01091506
650 12 Cells $x microbiology. $0 (DNLM)D002477Q000382
650 22 Recombinant Proteins. $0 (DNLM)D011994

650 22 Culture Techniques $x statistics & numerical data. $0 (DNLM)D046508Q000706
650 22 Genetics, Microbial. $0 (DNLM)D005827
650 22 Biotechnology. $0 (DNLM)D001709
653 Bioengineering
655 0 Electronic journals.
655 7 Periodicals. $2 lcgft
655 4 Fulltext.
655 4 Internet Resources.
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655 7 Periodicals. $2 fast $0 (OCoLC)fst01411641
655 2 Periodical. $0 (DNLM)D020492
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856 40 $u https://link.springer.com/journal/volumesAndIssues/12934
856 40 $u http://bibpurl.oclc.org/web/7386 $u http://www.microbialcellfactories.com/ $7 0
856 40 $u http://www.biomedcentral.com/1475-2859 $7 0
856 40 $u http://bibpurl.oclc.org/web/8433 $u https://www.ncbi.nlm.nih.gov/pmc/journals/100/
856 40 $u http://www.microbialcellfactories.com/start.asp

ATTACHMENT 9h

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

LC control no.: sh 89001096
LCCN Permalink: https://lccn.loc.gov/sh89001096
HEADING: Microbial biotechnology

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001 4824193
005 20120329075154.0
008 890222i| anannbabn |a ana
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450 __ |**a** Microorganisms |**x** Biotechnology
550 __ |**w** g |**a** Biotechnology
550 __ |**w** g |**a** Industrial microbiology
550 __ |**a** Biotechnological microorganisms
670 __ |**a** Work cat.: Sovremennye problemy biotekhnologii mikroorganizmov : tesizy dokladov konferentsii molodykh uchenykh, 1987.
906 __ |**t** 8925 |**u** fk05 |**v** 1
952 __ |**a** 22 bib. record(s) to be changed
952 __ |**a** LC pattern: Animal cell biotechnology
953 __ |**a** ff01 |**b** fj25

Previous Next

Save, Print or Email Records (View Help)

Select Download Format: Text (Labelled Display) Press to SAVE or PRINT

Email Text (Labelled Display) to: Press to SEND EMAIL

Motif Exhibit 1060, Page 126 of 401



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Washington, DC 20540

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

Questions, comments, error reports: Contact Us

ATTACHMENT 9i

LIBRARY OF CONGRESS AUTHORITIES

LC control no.: sh 90005744
LCCN Permalink: https://lccn.loc.gov/sh90005744
HEADING: Recombinant proteins

000 00702cz a2200253n 450
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550 __ |**w** g |**a** Proteins
550 __ |**w** g |**a** Recombinant molecules
670 __ |**a** Work cat.: Purification and analysis of recombinant proteins, c1991.
670 __ |**a** MESH.
670 __ |**a** MEDLARS.
906 __ |**t** 9051 |**u** fk04 |**v** 1
952 __ |**a** 0 bib. record(s) to be changed
953 __ |**a** ff01



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

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ATTACHMENT 10a

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246    2#$0Nucl Acids Res $9n
246    2#$aNAR
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260    3#$31992- : $aOxford : $bOxford University Press
300    ##$av. $billus.
310    ##$aTwenty four no. a year
321    ##$aTwenty four no. a year $b19??-1992
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337    ##$aunmediated $bn $2rdamedia
338    ##$avolume $bnc $2rdacarrier
362    0#$av. 1-       Jan. 1974-
500    ##$aHas supplement: Nucleotide sequences.
500    ##$aPlace of publication varies.
506    ##$aOnline version requires subscription to access full text
of articles. However, visitors can browse but will not be able to
access all features.
510    1#$91 $aMEDLINE $bv1n1, Jan. 1974-
510    0#$91 $aPubMed $bv1n1, Jan. 1974-
510    0#$aPMC
510    1#$aIndex medicus
516    ##$aOnline full text articles available in FTP postscript
files, or PDF and HTML files.
525    ##$aSupplement accompanies some volumes.
530    ##$aAlso available in CD-ROM and on the World Wide Web.
580    ##$aComplemented by: NAR cancer.
583    ##$3(1989) $c19890911 $fNotice published $lPrinted on acid-
free paper
650    #2$aNucleic Acids
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$w(DNLM)8703816
770    0#$tNucleic acids symposium series $x0261-3166 $w(DLC)sf
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911    ##$aElectronic and print, print canceled 2017
914    ##$aPortico $bCurrent to 2022 as of 20220118 $cISSN_03051048
935    ##$a(DNLM)125523-nlmdb
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ATTACHMENT 10b

Nucleic Acids MeSH Descriptor Data 2023

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Nucleic Acids
Tree Number(s)
D13.444
Unique ID
D009696
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D009696
Annotation
general or unspecified; prefer RNA or DNA and specifics
Scope Note
High molecular weight polymers containing a mixture of purine and pyrimidine nucleotides chained together by ribose or deoxyribose linkages.
Entry Term(s)
Nucleic Acid
Registry Number
0
Date Established
1966/01/01
Date of Entry
1999/01/01
Revision Date
2020/05/27

page delivered in 0.176s

Connect with NLM

National Library of Medicine
8600 Rockville Pike
Bethesda, MD 20894

Web Policies
FOIA
HHS Vulnerability Disclosure

NLM Support Center
Accessibility
Careers

NLM | NIH | HHS | USA.gov

ATTACHMENT 10c

OCLC 1791693 **No holdings in XXX - 486 other holdings**

Continuing Resources

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016 7 194868-4 $2 DE-600
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016 7 007007127 $2 Uk
019 1108645 $a 185058162 $a 604805620 $a 962128482 $a 979896570 $a 1011815220 $a 1033025232 $a 1062068227 $a 1109896548 $a 1154248629 $a 1167088358 $a 1171480575 $a 1179439634
022 0305-1048 $l 0305-1048 $z 0301-5610 $2 2
030 NARHAD
032 055510 $b USPS
037 $b Information Retrieval Inc., Suite 907, 1911 Jefferson Davis Highway, Arlington, VA 22202 $c $$210.00
042 pcc $a nsdp
050 00 QP620 $b .N8
050 14 QD341.A2 $b N9
060 00 W1 $b NU129
082 04 574.8/732
090 $b
210 0 Nucleic acids res.
222 0 Nucleic acids research
245 00 Nucleic acids research.
260 London, $a Washington, $b Information Retrieval Ltd.
264 31 $3 <2014- : $a Oxford, UK : $b Oxford University Press
300 volumes $c 23 cm
310 Semimonthly, $b May 1979-
321 Monthly, $b Jan. 1974-Apr. 1979
336 text $b txt $2 rdacontent

337 unmediated $b n $2 rdamedia
338 volume $b nc $2 rdacarrier
362 0 v. 1- Jan. 1974-
510 2 Chemical abstracts $x 0009-2258
515 Vol. 7 (1979) complete in eight numbers; v. 32 (2004) complete in twenty-two numbers.
515 Beginning in <1993 each volume contains an unumbered issue called the Database issue. Starting in 2003 each volume also has an unumbered issue called Web Server issue. Beginning in <2004 these issues begin carrying the volume number.
650 0 Nucleic acids $v Periodicals.
650 6 Acides nucléiques $v Périodiques.
650 6 Génome humain $x Séquençage $v Périodiques.
650 7 35.65 nucleic acids. $0 (NL-LeOCL)087981327 $2 bcl
650 7 Nucleic acids. $2 fast $0 (OCoLC)fst01041070
650 17 Nucleïnezuren. $2 gtt
650 2 Nucleic Acids. $0 (DNLM)D009696
655 0 Electronic journals.
655 4 Computer network resources.
655 7 Periodicals. $2 fast $0 (OCoLC)fst01411641
655 7 Electronic journals. $2 lcgft
655 2 Periodical. $0 (DNLM)D020492
770 0 $t Nucleotide sequences $g 1984- $x 0952-3472 $w (DLC)sn 85019160 $w (OCoLC)11589614
770 0 $t Nucleic acids research. Special publication $g 1975-1978 $x 0309-1872 $w (DLC)sn 81003996 $w (OCoLC)2945249
770 0 $t Nucleic acids symposium series $g 1979-2000 $x 0261-3166 $w (DLC)sf 85003075 $w (OCoLC)6724047
770 0 $t Nucleic acids research. Supplement (2001) $g 2001-2003 $w (DLC) 2003243633 $w (OCoLC)53801275
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776 08 $i Online version: $t Nucleic acids research (Online) $x 1362-4962 $w (DLC)sn 98034808 $w (OCoLC)34576199
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850 AAP $a CCC $a CSt-L $a CU-AM $a CU-SM $a CaMWM $a CaMWU $a CaSRU $a CtU $a DGW $a DLC $a GU $a ICRL $a INS $a MBCo $a MCM $a MH-BL $a IaAS $a MChB $a MNS $a MSobPR $a MWelC $a MdU-H $a MnSU $a MoKU $a MoSW $a MsSM $a MsU $a NCH $a NTR $a NbU-M $a NcRS $a NhU $a NjR $a PPT $a PU $a ScCleU $a TU $a TxDaM $a ULA $a ViBlbV
856 41 $u http://www.oxfordjournals.org/content?genre=journal&issn=0305-1048
856 41 $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 41 $u http://firstsearch.oclc.org/journal=0305-1048;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

ATTACHMENT 10d

LIBRARY OF CONGRESS AUTHORITIES

LC control no.: sh 85093144
LCCN Permalink: https://lccn.loc.gov/sh85093144
HEADING: Nucleic acids

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001 4743195
005 20120327095116.0
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550 __ |**w** g |**a** Biomolecules
906 __ |**t** 8842 |**u** fk03 |**v** 0
952 __ |**a** 0 bib. record(s) to be changed
953 __ |**a** xx00 |**b** ff01

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

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Washington, DC 20540

ATTACHMENT 11a

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5054 $c$398.00 (institution)
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245    00$aNature biotechnology.
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300    ##$av. : $bill. ; $c28 cm.
310    ##$aMonthly, with a special issue in Nov.
362    0#$aVol. 14, no. 3 (Mar. 1996)-
500    ##$aTitle from cover.
510    2#$aBibliography of agriculture x 0006-1530
510    2#$aChemical abstracts $x0009-2258
510    2#$aChemical industry notes $x0045-639X
525    ##$a2002 includes a CD-ROM: Roche Genetics Education Program,
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525    ##$aSome volumes include separate supplements.
580    ##$aComplements the journal Nature with articles for an
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901    ##$cSER
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ATTACHMENT 11b

OCLC 34160925 **No holdings in XXX - 591 other holdings**

Continuing Resources

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042 nsdp $a pcc
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072 0 X300
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090 $b
210 0 Nat. biotechnol. $b (Print)
222 0 Nature biotechnology $b (Print)
245 00 Nature biotechnology.
260 New York, NY : $b Nature Pub. Co., $c [1996]-
300 volumes : $b illustrations ; $c 28 cm
310 Monthly, $b <Apr. 2000-
321 Monthly, with a special issue in Nov.

336 text $b txt $2 rdacontent
337 unmediated $b n $2 rdamedia
338 volume $b nc $2 rdacarrier
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500 Title from cover.
510 2 Chemical abstracts $x 0009-2258
525 Supplements accompany some volumes; issues for <Vol. 21 (2003) have occasional supplement: Bioentrepreneur.
530 Also issued in microform by University Microfilms, Inc.
530 Also issued online via the World Wide Web by subscription.
580 Complements the journal Nature with articles for an audience specialized in biotechnology.
588 1 Vol. 21, no. 11 (Nov. 2003).
650 0 Biochemical engineering $v Periodicals.
650 0 Biotechnology $v Periodicals.
650 6 Génie biochimique $v Périodiques.
650 6 Biotechnologie $v Périodiques.
650 7 58.30 biotechnology. $0 (NL-LeOCL)07760668X $2 bcl
650 7 Mensuels. $2 eclas
650 7 Sciences de la vie. $2 eclas
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650 7 Biotechnology. $2 fast $0 (OCoLC)fst00832729
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650 7 Zeitschrift $2 gnd $0 (DE-588)4067488-5
650 17 Biotechnologie. $2 gtt
650 07 Biotechnologie. $2 swd
650 07 Zeitschrift. $2 swd
650 2 Biotechnology. $0 (DNLM)D001709
653 Periodical
655 0 Electronic journals.
655 7 Periodicals. $2 fast $0 (OCoLC)fst01411641
655 7 $0 (DE-588)4067488-5 $0 https://d-nb.info/gnd/4067488-5 $0 (DE-101)040674886 $a Zeitschrift $2 gnd-content
655 7 Periodicals. $2 lcgft
655 2 Periodical. $0 (DNLM)D020492
710 2 Nature Publishing Company.
730 0 Bioentrepreneur.
776 1 $t Nature biotechnology (Online) $x 1546-1696 $w (DLC) 2003215582
780 00 $t Bio/technology (Nature Publishing Company) $x 0733-222X $w (DLC) 83644551 $w (OCoLC)8549852
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850 DLC $a DNAL $a DNLM $a InU $a MBCo $a MCM $a MiU $a WaU
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ATTACHMENT 12a

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246    1#$aBiochimica et biophysical acta (BBA) General subjects
264    #1$aAmsterdam : $bElsevier/North-Holland.
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310    ##$aMonthly
336    ##$atext $btxt $2rdacontent
337    ##$aunmediated $bn $2rdamedia
338    ##$avolume $bnc $2rdacarrier
362    1#$aBegan with volume 82, issue 1 (January 13, 1964).
490    0#$aBiochimica et biophysica acta. General subjects, $x0304-
4165
515    ##$aBiochimica et biophysica acta is published according to a
volume-numbering scheme that embraces all sections of the journal.
As a result it shares volume numbering with the other topical
sections of Biochimica et biophysica acta: Biomembranes; Gene
structure and expression; Lipids and lipid metabolism (called Dec.
1998- : Molecular and cell biology of lipids); Molecular basis of
disease; Molecular cell research; Protein structure and molecular
enzymology (called July 2002- : Proteins and proteomics); Reviews
on biomembranes (until May 2002); and: Reviews on cancer.
```

```
588    ##$aDescription based on: Volume 1861, Issue 1 (January
2017); title from cover.
588    ##$aLatest issue consulted: Volume 1861, Issue 2 (February
2017).
650    #0$aBiochemistry $vPeriodicals.
650    #0$aBiophysics $vPeriodicals.
650    12$aBiochemistry.
650    12$aBiophysics.
650    #6$aBiochimie $vPériodiques.
650    #6$aBiophysique $vPériodiques.
650    #7$aBiochemistry. $2fast $0(OCoLC)fst00831961
650    #7$aBiophysics. $2fast $0(OCoLC)fst00832656
650    17$aBiochemie. $2gtt
650    17$aBiofysica. $2gtt
653    ##$aTitles of journals.
655    #0$aElectronic journals.
655    #2$aPeriodical.
655    #7$aPeriodicals. $2fast $0(OCoLC)fst01411641
776    08$iOnline version: $tBiochimica et biophysica acta. General
subjects $x1872-8006 $w(DLC)  2003233285 $w(OCoLC)38492156
780    07$tBiochimica et biophysica acta $x0006-3002 $w(DLC)
49048142 $w(OCoLC)1536398
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959    ##$a(EIUdb)428464
959    ##$a(ISUdb)1099455 $9LOCAL
994    ##$a92 $bIAD
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ATTACHMENT 12b

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

LC control no.: sh2007101985
LCCN Permalink: https://lccn.loc.gov/sh2007101985
HEADING: Biochemistry Periodicals

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001 7416979
005 20110729155828.0
008 071129|| anannbabn |n ana
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035 __ |**a** (DLC)373503
035 __ |**a** (DLC)sh2007101985
040 __ |**a** DLC |**b** eng |**c** DLC
150 __ |**a** Biochemistry |**v** Periodicals
667 __ |**a** Record generated for validation purposes.
670 __ |**a** Work cat.: Journal of the Chemical Society, 1972-c1999
906 __ |**t** 8888 |**u** te00 |**v** 0
953 __ |**a** te00

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ATTACHMENT 12c

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

LC control no.: sh2007101987
LCCN Permalink: https://lccn.loc.gov/sh2007101987
HEADING: Biophysics Periodicals

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040 __ |**a** DLC |**b** eng |**c** DLC
150 __ |**a** Biophysics |**v** Periodicals
667 __ |**a** Record generated for validation purposes.
670 __ |**a** Work cat.: Recent research developments in biophysics & biochemistry, 2001-
906 __ |**t** 8888 |**u** te00 |**v** 0
953 __ |**a** te00

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ATTACHMENT 12d

OCLC 4969968 **No holdings in XXX - 182 other holdings**

Continuing Resources

						Rec Stat		**Entered**	19790516	**Replaced**	20220218201546.9
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BLvl	s	**Form**		**Conf**	0	**Freq**	m	**MRec**		**Ctry**	ne
S/L	0	**Orig**		**EntW**		**Regl**	r	**Alph**	a		
Desc	i	**SrTp**	p	**Cont**		**DtSt**	c	**Dates**	1964 ,	9999	

010 sn 86008837
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050 4 QD1 $b .B55
090 $b
210 0 Biochim. biophys. acta (G)
222 0 Biochimica et biophysica acta (G).
245 00 Biochimica et biophysica acta. $p General subjects.
246 1 General subjects
246 1 BBA. General subjects
246 1 Biochimica et biophysica acta, BBA, General subjects
246 1 Biochimica et biophysical acta (BBA) General subjects
264 1 Amsterdam : $b Elsevier/North-Holland.
300 volumes ; $c 24 cm.
310 Monthly
336 text $b txt $2 rdacontent
337 unmediated $b n $2 rdamedia
338 volume $b nc $2 rdacarrier
362 1 Began with volume 82, issue 1 (January 13, 1964).
490 0 Biochimica et biophysica acta. General subjects, $x 0304-4165
515 Biochimica et biophysica acta is published according to a volume-numbering scheme that embraces all sections of the journal. As a result it shares volume numbering with the other topical sections of Biochimica et biophysica acta: Biomembranes; Gene structure and expression; Lipids and lipid metabolism (called Dec. 1998- : Molecular and cell biology of lipids); Molecular basis of disease; Molecular cell research; Protein structure and molecular enzymology (called July 2002- : Proteins and proteomics); Reviews on biomembranes (until May 2002); and: Reviews on cancer.
588 Description based on: Volume 1861, Issue 1 (January 2017); title from cover.

588 Latest issue consulted: Volume 1861, Issue 2 (February 2017).
650 0 Biochemistry $v Periodicals.
650 0 Biophysics $v Periodicals.
650 0 Biochemistry.
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650 12 Biochemistry $0 (DNLM)D001671
650 12 Biophysics $0 (DNLM)D001703
650 6 Biochimie $0 (CaQQLa)201-0001077 $v Périodiques. $0 (CaQQLa)201-0378307
650 6 Biophysique $0 (CaQQLa)201-0003996 $v Périodiques. $0 (CaQQLa)201-0378307
650 6 Biochimie. $0 (CaQQLa)201-0001077
650 6 Biophysique. $0 (CaQQLa)201-0003996
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650 7 Biochemistry. $2 fast $0 (OCoLC)fst00831961
650 7 Biophysics. $2 fast $0 (OCoLC)fst00832656
650 17 Biochemie. $2 gtt
650 17 Biofysica. $2 gtt
653 Titles of journals.
655 0 Electronic journals.
655 2 Periodical $0 (DNLM)D020492
655 7 Periodicals. $2 fast $0 (OCoLC)fst01411641
776 08 $i Online version: $t Biochimica et biophysica acta. General subjects $x 1872-8006 $w (DLC) 2003233285 $w (OCoLC)38492156
780 07 $t Biochimica et biophysica acta $x 0006-3002 $w (DLC) 49048142 $w (OCoLC)1536398

ATTACHMENT 12e

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

LC control no.: sh 85014171

LCCN Permalink: https://lccn.loc.gov/sh85014171

HEADING: Biochemistry

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005 20201020060008.0

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035 __ |**a** (DLC)sh 85014171

035 __ |**a** (DLC)13637

040 __ |**a** DLC |**c** DLC |**d** DLC |**d** WaU

053 _0 |**a** QD415 |**b** QD436 |**c** Chemistry

053 _0 |**a** QH345 |**c** Biology

053 _0 |**a** QP501 |**b** QP801 |**c** Physiology

150 __ |**a** Biochemistry

360 __ |**i** subdivision |**a** Composition |**i** under individual animals and groups of animals, e.g. |**a** Fishes--Composition; Cattle--Composition

450 __ |**w** nne |**a** Biological chemistry

450 __ |**a** Chemical composition of organisms

450 __ |**a** Organisms |**x** Composition

450 __ |**w** nne |**a** Physiological chemistry

550 __ |**w** g |**a** Biology

550 __ |**w** g |**a** Chemistry

550 __ |**w** g |**a** Medical sciences

670 __ |**a** MeSH browser, July 29, 2020 |**b** (Biochemistry. SN The study of the composition, chemical structures, and chemical reactions of living things. In MeSH Tree Structures under Biological Science Disciplines and under Chemistry)

670 __ |**a** Web. 3.

670 __ |**a** Hennepin.

670 __ |**a** McGraw-Hill dict. of sci. and tech. terms, c2003 |**b** (biochemistry [CHEM] The study of chemical substances occurring in living organisms and the reactions and methods for identifying these substances)

670 __ |**a** Tröjbom, M. Chemistry data from surface ecosystems in Forsmark and Laxemar-Simpevarp, 2010: |**b** p. 3 ("chemical composition of the regolith and biota of the terrestrial, limnic, and marine ecosystems")

670 __ |**a** Biology dictionary, via WWW, July 29, 2020 |**b** (Chemical Biology: a scientific discipline that combines chemistry and biology by using chemistry and chemical techniques to study biological systems. The main difference between chemical biology and biochemistry is that chemical biology involves adding novel chemical compounds to a biological system, while biochemistry is the study of chemical reactions that naturally happen inside organisms. Examples of chemical biology research include controlling cell division and other cell activities, using small molecules as targets for treatment, and manipulating stem cells. Differences between chemical biology and biochemistry: Chemical biology adds chemical compounds to biological systems in order to see what effect these chemicals have on cells and tissues. Chemical biologists often synthesize and add new compounds to cells. The goal of chemical biology research is to develop techniques that can eventually be applied to cells in a living organism, such as treatment options for cancer and other diseases. Biochemistry, on the other hand, is all about the chemical processes that already occur naturally in the cell. Instead of adding chemical compounds to cells to see the effects, biochemistry researchers study the chemical reactions that occur in organisms and the molecular makeup of these compounds. Biochemists also tend to study larger molecules like proteins and nucleic acids, while chemical biologists study smaller molecules) |**u** https://biologydictionary.net/chemical-biology/

680 __ |**i** Here are entered works on the study of naturally occurring chemical reactions in organisms. Works on the use of chemistry and chemical techniques to study biological systems are entered under |**a** Chemical biology.

681 __ |**i** Note under |**a** Chemical biology

910 __ |**a** Proposal saved by tc03 on 07/31/2020 at 10:12:44

952 __ |**a** Made for existing bibliographic records

952 __ |**a** LC pattern: Biophysics

906 __ |**t** 1125 |**v** 0

906 __ |**t** 2009 |**v** 0

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ATTACHMENT 12f

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

LC control no.: sh 85014253
LCCN Permalink: https://lccn.loc.gov/sh85014253
HEADING: Biophysics

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001 4667034
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008 860211i| anannbabn |b ana
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550 __ |**w** g |**a** Biology
550 __ |**w** g |**a** Medical sciences
550 __ |**w** g |**a** Physics
906 __ |**t** 8004 |**u** fk05 |**v** 0
953 __ |**a** xx00

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ATTACHMENT 14a

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003   OCoLC
005   20130131080954.0
008   081231t20102010njua be 001 0 eng
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042   |apcc
049   |aNRCC
05000 |aTP248.16|b.E53 2010
06000 |a2010 E-079
06010 |aW 82|bE56 2010
0700  |aTP248.16|b.E54 2009
08200 |a660.603|222
24500 |aEncyclopedia of industrial biotechnology :|bbioprocess, b
      ioseparation and cell technology /|cedited by Michael C. Fl
      ickinger.
264  1|aHoboken, N.J. :|bWiley,|c[2010]
264  4|c©2010
300   |a7 volumes (xxvii, 5051 pages) :|billustrations ;|c29 cm
336   |atext|btxt|2rdacontent
337   |aunmediated|bn|2rdamedia
338   |avolume|bnc|2rdacarrier
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504   |aIncludes bibliographical references and index.
596   |a15
650  0|aBiotechnology|0http://id.loc.gov/authorities/subjects/sh8
     5014263|vEncyclopedias.|0http://id.loc.gov/authorities/subj
     ects/sh99001614
65012|aBiomedical Technology|vEncyclopedias|xEnglish.
655  7|aEncyclopedias.|2lcgft
7001 |aFlickinger, Michael C.|0http://id.loc.gov/authorities/nam
     es/n80110260
909   |a20100520
918   |a2270441
994   |aC0|bNRC
917   |au2270441
019   |a437299571|a694080546
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ATTACHMENT 14b

OCLC 297494674 **No holdings in XXX - 53 other holdings**

Books

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BLvl	m	**Form**		**Conf**	0	**Biog**		**MRec**		**Ctry**	nju
		Cont	be	**GPub**		**LitF**	0	**Indx**	1		
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042 pcc
050 00 TP248.16 $b .E53 2010
060 00 2010 E-079
060 10 W 82 $b E56 2010
070 0 TP248.16 $b .E54 2009
082 00 660.603 $2 22
090 $b
245 00 Encyclopedia of industrial biotechnology : $b bioprocess, bioseparation and cell technology / $c edited by Michael C. Flickinger.
260 Hoboken, N.J. : $b Wiley, $c ©2010.
300 7 volumes (xxvii, 5051 pages) : $b illustrations ; $c 29 cm
336 text $b txt $2 rdacontent
337 unmediated $b n $2 rdamedia
338 volume $b nc $2 rdacarrier

504 Includes bibliographical references and index.
650 0 Biotechnology $v Encyclopedias.
650 0 Biomedical engineering.
650 12 Biomedical Technology $0 (DNLM)D020811
650 2 Biomedical Engineering $0 (DNLM)D001698
650 6 Biotechnologie $0 (CaQQLa)201-0004007 $v Encyclopédies. $0 (CaQQLa)201-0377762
650 6 Génie biomédical. $0 (CaQQLa)201-0021888
650 7 biomedical engineering. $2 aat $0 (CStmoGRI)aat300250642
650 7 Biomedical engineering. $2 fast $0 (OCoLC)fst00832568
650 7 Biotechnology. $2 fast $0 (OCoLC)fst00832729
655 2 Encyclopedia $0 (DNLM)D019500
655 7 encyclopedias. $2 aat $0 (CStmoGRI)aatgf300129439
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700 1 Flickinger, Michael C.

ATTACHMENT 14c

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

LC control no.: sh 85014263

LCCN Permalink: https://lccn.loc.gov/sh85014263

HEADING: Biotechnology

000 01206cz a2200265n 450

001 4667044

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010 __ |**a** sh 85014263

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035 __ |**a** (DLC)13729

040 __ |**a** DLC |**c** DLC |**d** DLC

053 _0 |**a** TP248.13 |**b** TP248.65

150 __ |**a** Biotechnology

360 __ |**i** subdivision |**a** Biotechnology |**i** under individual chemicals and groups of chemicals, e.g. |**a** Insulin--Biotechnology

550 __ |**w** g |**a** Chemical engineering

550 __ |**a** Genetic engineering

670 __ |**a** Work cat.: Prentis, S. Biotechnology : a new industrial revolution, 1984.

670 __ |**a** Web. 3: |**b** p. 219.

670 __ |**a** Barnhart dict. of new English: |**b** p. 70.

670 __ |**a** McGraw-Hill yrbk. of sci. tech., 1981.

670 __ |**a** Biotechnology : a Dutch perspective: |**b** intro. (The science of production processes based on the action of micro-organisms and active components and of production processes involving use of cells and tissues from higher organisms)

680 __ |**i** Here are entered works on the application of living organisms or their biological systems or processes to the manufacture of useful products.

906 __ |**t** 8912 |**u** fk07 |**v** 0

953 __ |**a** fg05 |**b** fj25

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ATTACHMENT 14d

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

LC control no.: sh 85042997
LCCN Permalink: https://lccn.loc.gov/sh85042997
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360 __ |**i** subdivisions |**a** Dictionaries |**i** or |**a** Encyclopedias |**i** under subjects
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450 __ |**a** Cyclopedias
450 __ |**a** Dictionaries
450 __ |**a** Encyclopedias and dictionaries, English
450 __ |**a** Knowledge, Books of
450 __ |**a** Subject dictionaries
550 __ |**w** g |**a** Reference books
680 __ |**i** Here are entered comprehensive reference works in the English language consisting of explanatory articles arranged alphabetically or topically and not limited to a specific topic. Works of this type in other languages are entered under headings of the type Encyclopedias and dictionaries, [language], e.g. |**a** Encyclopedias and dictionaries, French; Encyclopedias and dictionaries, Spanish. |**i** Works about encyclopedias and dictionaries in general, and works about English-language encyclopedias and dictionaries, are entered under |**a** Encyclopedias and dictionaries |**i** with further subdivision, e.g. |**a** Encyclopedias and dictionaries--History and criticism. |**i** Works consisting of comprehensive alphabetical lists of the words of a specific language, usually with definitions, are entered under the heading for the language with subdivision Dictionaries, e.g. |**a** English language--Dictionaries. |**i** Works about dictionaries of a

specific language are entered under the heading for the language with subdivision Lexicography, e.g. |**a** English language--Lexicography.

906 __ |**t** 0233 |**u** te04 |**v** 0

953 __ |**a** xx00 |**b** td14

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ATTACHMENT 14e

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

LC control no.: sh 85014237
LCCN Permalink: https://lccn.loc.gov/sh85014237
HEADING: Biomedical engineering

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550 __ |**w** g |**a** Medicine
906 __ |**t** 0514 |**u** te04 |**v** 1
953 __ |**a** xx00 |**b** ta25

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ATTACHMENT 14f

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

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Encyclopedia of industrial biotechnology : bioprocess, bioseparation ...

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906	__	|**a** 7 |**b** cbc |**c** orignew |**d** 1 |**e** ecip |**f** 20 |**g** y-gencatlg
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042	__	|**a** pcc
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060	10	|**a** W 82 |**b** E56 2009
082	00	|**a** 660.603 |**2** 22
245	00	|**a** Encyclopedia of industrial biotechnology : |**b** bioprocess, bioseparation and cell technology / |**c** edited by Michael C. Flickinger.
260	__	|**a** Hoboken, N.J. : |**b** Wiley, |**c** c2010.
300	__	|**a** 7 v. (xxvii, 5051 p.) : |**b** ill. ; |**c** 29 cm.
504	__	|**a** Includes bibliographical references and index.

650	_0	|**a** Biotechnology |**v** Encyclopedias.
650	12	|**a** Biomedical Technology |**v** Encyclopedias |**x** English.
700	1_	|**a** Flickinger, Michael C.
985	__	|**a** NLMCIP |**d** 2009-01-05

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MARC Bibliographic Record

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082	00	$a660.6/2$222
245	00	$aManual of industrial microbiology and biotechnology /$ceditors in c
250		$aThird edition.
264	_1	$aWashington, DC :$bASM Press,$c[2010]
264	_4	$c©2010
300		$axvii, 766 pages :$billustrations ;$c29 cm
336		$atext$btxt$2rdacontent
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338		$avolume$bnc$2rdacarrier
504		$aIncludes bibliographical references and indexes.
650	_0	$aIndustrial microbiology$vHandbooks, manuals, etc.

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U.S. Patent No. 10,689,656

650	_0		$aBiotechnology$vHandbooks, manuals, etc.
650	12		$aBiotechnology.
650	12		$aIndustrial Microbiology.
700	1_		$aBaltz, Richard H.
700	1_		$aDavies, Julian E.
700	1_		$aDemain, A. L.$q(Arnold L.),$d1927-
710	2_		$aAmerican Society for Microbiology.
949			$a20101105$bcmbcddntepfcall:n$grepl:n$hgls
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049 $aGZMA

050 _4 $aQR53$b.M33 2010eb

060 _4 $a2011 I-550

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070 $aQR53$b.M33 2010

072 _7 $aSCI$x013060$2bisacsh

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082 04 $a660.6/2$223

245 00 $aManual of industrial microbiology and biotechnology /$ceditors in chief, Richard H. Baltz, Julian E. Davie

250 $a3rd ed.

264 _1 $aWashington, DC :$bASM Press,$c[2010]

264 _4 $c©2010

300 $a1 online resource (xvii 766 pages) :$billustrations

336 $atext$btxt$2rdacontent

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338 $aonline resource$bcr$2rdacarrier

347 $adata file$2rda

490 1_ $aReference Manual, ASM Press

504 $aIncludes bibliographical references and indexes.

588 0_ $aPrint version record.

520 $aThe third edition reviews the newest techniques, approaches, and options in the use of microorganisms and

505 00 $gSect. I.$tIsolation and Screening for Secondary Metabolites and Enzymes.$tNew approaches to microbial isol
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/$rSpiros N. Agathos --$gsect. III.$tGenetics, Strain Improvement, and Recombinant Proteins.$tGenetic engine
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production of polyketides in streptomyces coelicolor and escherichia coli /$rJames T. Kealey --$tGenetic eng
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Jibin Sun --$tAdvances in sensor and sampling technologies in fermentation and mammalian cell culture /$rAde

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650 _2 $aBiotechnology.$0(DNLM)D001709

650 _2 $aIndustrial Microbiology.$0(DNLM)D007218

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650 _7 $aIndustrial microbiology.$2fast$0(OCoLC)fst00971352

650 _7 $aBiotechnologie.$2idszbz

650 _7 $aMikrobiologie.$2idszbz

655 _0 $aElectronic book.

655 _2 $aHandbook.$0(DNLM)D020479

655 _4 $aElectronic books.

655 _7 $aHandbooks and manuals.$2fast$0(OCoLC)fst01423877

655 _7 $aHandbooks and manuals.$2lcgft

700 1_ $aBaltz, Richard H.

700 1_ $aDavies, Julian E.

700 1_ $aDemain, A. L.$q(Arnold L.),$d1927-

776 08 $iPrint version:$tManual of industrial microbiology and biotechnology.$b3rd ed.$dWashington, DC : ASM Press,

830 _0 $aReference Manual, ASM Press.

856 40 $3123Library$uhttp://www.123library.org/book_details/?id=15780

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856 40 $3Google$uhttp://books.google.com/books?id=wIZFAQAAIAAJ

856 40 $3Knovel$uhttp://app.knovel.com/hotlink/toc/id:kpMIMBE006/manual-of-industrial

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856  42  $uhttp://libanswers.liverpool.ac.uk/faq/182315$zReading advice (software, printing, accessibility, privacy)
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070 0 QR53 $b .M33 2010
082 00 660.6/2 $2 22
090 $b
245 00 Manual of industrial microbiology and biotechnology / $c editors in chief, Richard H. Baltz, Julian E. Davies, Arnold L. Demain ; editors, Alan T. Bull [and others].
250 3rd ed.
260 Washington, DC : $b ASM Press, $c ©2010.
300 xvii 766 pages : $b illustrations ; $c 29 cm
336 text $b txt $2 rdacontent
337 unmediated $b n $2 rdamedia
338 volume $b nc $2 rdacarrier
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505 00 $g sect. I. $t Isolation and Screening for Secondary Metabolites and Enzymes. $t New approaches to microbial isolation / $r Slava S. Epstein [and others] -- $t Selective isolation of actinobacteria / $r Michael Goodfellow -- $t Taxonomic characterization of prokaryotic microorganisms / $r Giovanna E. Felis [and others] -- $t Enzymes from extreme environments / $r Don A. Cowan [and others] -- $t Cell-based screening methods for anti-infective compounds / $r Stefano Donadio and Margherita Sosio -- $t Metabolomics for the discovery of novel compounds / $r Jens C. Frisvad -- $t Methods to access silent biosynthetic pathways / $r Robert H. Cichewicz [and others] -- $g sect. II. $t Fermentation and Cell Culture. $t Miniaturization of fermentations / $r Wouter A. Duetz, Matthew Chase, and Gerald Bills -- $t Solid-phase fermentation : aerobic and anaerobic / $r Ramunas Bigelis -- $t Bacterial cultivation for production of proteins and other biological products / $r Joseph Shiloach and Ursula Rinas -- $t Heterologous protein expression in yeasts and filamentous fungi / $r Ningyan Zhang and Zhiqiang An -- $t Mammalian cell culture for biopharmaceutical production / $r Jinyou Zhang -- $t Manufacture of

mammalian cell biopharmaceuticals / $r Jinyou Zhang -- $t Plant cell culture / $r Nancy L. Paiva -- $t Insect cell culture / $r Spiros N. Agathos -- $g sect. III. $t Genetics, Strain Improvement, and Recombinant Proteins. $t Genetic engineering of corynebacteria / $r Masato Ikeda and Seiki Takeno -- $t Genetic manipulation of clostridium / $r Marite Bradshaw and Eric A. Johnson -- $t Genetic manipulation of myxobacteria / $r Wesley P. Black [and others] -- $t Strain improvement of escherichia coli to enhance recombinant protein production / $r Michael E. Pynem, Karan S. Sukhija, and C. Perry Chou -- $t Genetic engineering tools for saccharomyces cerevisiae / $r Verena Siewers, Uffe H. Mortensen, and Jens Nielsen -- $t Protein expression in nonconventional yeasts / $r Thomas W. Jeffries and James M. Cregg -- $t Genetics, genetic manipulation, and approaches to strain improvement of filamentous fungi / $r Vera Meyer, Arthur F J Ram, and Peter J. Punt -- $t Genetic manipulations of mammalian cells for protein expression / $r Anne Kantardjieff [and others] -- $g sect. IV. $t Genetic Engineering of Secondary Metabolite Synthesis. $t Glycosylation of secondary metabolites to produce novel compounds / $r Andreas Bechthold and Katharina Probst -- $t Metabolic engineering of escherichia coli for the production of a precursor to artemisinin, an antimalarial drug / $r Christopher J. Petzold and Jay D. Keasling -- $t Heterologous production of polyketides in streptomyces coelicolor and escherichia coli / $r James T. Kealey -- $t Genetic engineering of acidic lipopeptide antibiotics / $r Richard H Baltz, Kien T. Nguyen, and Dylan C. Alexander -- $t Genetic engineering to regulate production of secondary metabolites in streptomyces / $r Susan E. Jensen -- $t Genetic engineering of myxobacterial natural product biosynthetic genes / $r Bryan Julien and Eduardo Rodriguez -- $g sect. V. $t Industrial Enzymes, Biocatalysis, and Enzyme Evolution. $t Tools for enzyme discovery / $r Yasuhisa Asano -- $t Enzyme engineering : combining computational approaches with directed evolution / $r Louis A. Clark -- $t Enzyme engineering by directed evolution / $r Manfred T. Reetz -- $t Industrial applications of enzymes as catalysts / $r Nikhil U. Nair [and others] -- $t Biomass-converting enzymes and their bioenergy applications / $r Feng Xu -- $t The use of enzymes for non-aqueous organic transformations / $r Elton P Hudson, Michael J. Liszka, and Douglas S. Clark -- $t Enzyme promiscuity and evolution of new protein functions / $r Bert Van Loo and Florian Hollfelder -- $t Enzyme production in escherichia coli / $r Daniel J. Sayut [and others] -- $t Bioprocess development / $r Lutz Hilterhaus and Andreas Liese -- $g sect. VI. $t Microbial Fuels (Biofuels) and Fine Chemicals. $t Accessing microbial communities for solutions to biofuels production / $r Carl B. Abulencia [and others] -- $t Micro-algal culture as a feedstock for bioenergy, chemicals, and nutrition / $r Susan T.L. Harrison [and others] -- $t Metabolic engineering strategies for production of commodity and fine chemicals : escherichia coli as a platform organism / $r Patrick C. Cirino -- $t Improving microbial robustness using systems biology / $r Jonathan R. Mielenz and David A. Hogsett -- $t Bioethanol production from lignocellulosics : some process considerations and procedures / $r Charles A. Abbas [and others] -- $t Surface microbiology of cellulolytic bacteria / $r Alexandru Dumitrache, Gideon M. Wolfaardt, and Lee R. Lynd -- $t Physiological and methodological aspects of cellulolytic microbial cultures / $r Nicolai S. Panikov and Lee R. Lynd -- $g sect. VII. $t Biological Engineering and Scale-Up of Industrial Processes. $t Raw materials selection and medium development for industrial fermentation processes / $r Samun K. Dahod, Randolph Greasham, and Max Kennedy -- $t Scale-up of microbial fermentation process / $r Xiaoming Yang -- $t Cell culture bioreactors : controls, measurements, and scale-down model / $r Wan-Seop Kim -- $t Continuous culture / $r An-Ping Zeng and Jibin Sun -- $t Advances in sensor and sampling technologies in fermentation and mammalian cell culture / $r Adeyma Y. Arroyo -- $t Bioreactor automation / $r David Hopkins, Melissa St. Amand, and Jack Prior -- $t Purification and characterization of proteins / $r Ulrich Strych and Richard C. Willson.
650 0 Industrial microbiology $v Handbooks, manuals, etc.
650 0 Biotechnology $v Handbooks, manuals, etc.
650 0 Industrial microbiology.
650 12 Industrial Microbiology $0 (DNLM)D007218

650 12 Biotechnology $0 (DNLM)D001709
650 3 biotechnology.
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650 6 Microbiologie industrielle $0 (CaQQLa)201-0014954 $v Guides, manuels, etc. $0 (CaQQLa)201-0377046
650 6 Biotechnologie $0 (CaQQLa)201-0004007 $v Guides, manuels, etc. $0 (CaQQLa)201-0377046
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700 1 Baltz, Richard H.
700 1 Davies, Julian E.
700 1 Demain, A. L. $q (Arnold L.), $d 1927-
710 2 American Society for Microbiology.
776 08 $i Online version: $t Manual of industrial microbiology and biotechnology. $b 3rd ed. $d Washington, DC : ASM Press, ©2010 $w (OCoLC)744633805

ATTACHMENT 15c

Case No.: IPR2023-00321
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155 __ |**a** Handbooks and manuals

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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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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

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ATTACHMENT 16a

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510    2#$aChemical abstracts $x0009-2258 $b1985
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901    ##$cSer
936    ##$aVol. 7, no. 1 (Jan. 1991) LIC
948    ##$aLTI 09/01/2008
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ATTACHMENT 16b

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

LC control no.: sh 85149060
LCCN Permalink: https://lccn.loc.gov/sh85149060
HEADING: Yeast

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550 __ |**w** g |**a** Edible fungi
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550 __ |**a** Yeast-free diet
680 __ |**i** Here are entered works on yeasts as micro-organisms of fermentation. Botanical works on yeasts are entered under |**a** Yeast fungi.
906 __ |**t** 9506 |**u** te04 |**v** 0
953 __ |**a** xx00 |**b** td04

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ATTACHMENT 16c

OCLC 11128931 **No holdings in XXX - 222 other holdings**

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260 Chichester ; $a New York : $b Wiley, $c ©1985-
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310 Monthly plus one additional issued in Jan., Apr., July, and Oct., $b <2005-
321 Frequency varies, $b 1985-<1995
336 text $b txt $2 rdacontent
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338 volume $b nc $2 rdacarrier
362 0 Vol. 1, no. 1 (Sept. 1985)-
500 Title from cover.
510 2 Chemical abstracts $x 0009-2258 $b 1985
515 Vol. 16 and v. 17 published concurrently during 2000.
525 Special issues accompany some volumes.
525 Vol. 17 published in 4 issues (Apr.-Dec. 2000) as "an affiliated section of Yeast" with title: Comparative and functional genomics; published separately, 2001-
588 Latest issue consulted: Vol. 22, no. 8 (June 2005).
650 0 Yeast $v Periodicals.
650 7 35.00 chemistry: general. $0 (NL-LeOCL)077595815 $2 bcl
650 7 58.00 process engineering: general. $0 (NL-LeOCL)077606507 $2 bcl
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856 41 $u http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1097-0061

ATTACHMENT 18a

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

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PERIODICAL OR NEWSPAPER

Molecular microbiology

Full Record **MARC Tags**

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Motif Exhibit 1060, Page 208 of 401

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550	__	|**a** "Published ... in association with the IUMS", 1987-
588	__	|**a** Latest issue consulted: Volume 86, number 4 (November 2012).
590	__	|**a** SERBIB/SERLOC merged record
650	_0	|**a** Molecular microbiology |**v** Periodicals.
650	_6	|**a** Microbiologie |**v** Périodiques.
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ATTACHMENT 18b

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

LC control no.: sh 87007715
LCCN Permalink: https://lccn.loc.gov/sh87007715
HEADING: Molecular microbiology

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550 __ |**w** g |**a** Molecular biology
670 __ |**a** Work cat.: Molecular microbiology, 1987.
670 __ |**a** Kwapinski, J.B.G. Molecular microbiology, 1974.
675 __ |**a** MESH; |**a** NIH; |**a** Chem. abst.
906 __ |**t** 9921 |**u** te04 |**v** 0
953 __ |**a** ff04 |**b** ta25

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ATTACHMENT 18c

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500 Title from cover.
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515 Effective 1993, four v. issued per year, 6 issues per v.; last volume of year has only 5 issues.
550 "Published ... in association with the IUMS", 1987-
588 Latest issue consulted: Volume 86, number 4 (November 2012).
650 0 Molecular microbiology $v Periodicals.
650 6 Microbiologie $v Périodiques.
650 6 Biologie moléculaire $v Périodiques.
650 7 42.30 microbiology. $0 (NL-LeOCL)077603133 $2 bcl
650 7 Molecular microbiology. $2 fast $0 (OCoLC)fst01024813
650 7 Mikrobiologie $2 gnd $0 (DE-588)4316357-9
650 7 Molekularbiologie $2 gnd $0 (DE-588)4039983-7
650 7 Zeitschrift $2 gnd $0 (DE-588)4067488-5
650 17 Moleculaire biologie. $2 gtt
650 17 Microbiologie. $2 gtt
650 7 Microbiologie moléculaire. $2 rasuqam
650 7 Micro-organisme. $2 rasuqam
650 07 Mikrobiologie. $2 swd
650 07 Zeitschrift. $2 swd
650 07 Molekularbiologie. $2 swd
650 2 Microbiology. $0 (DNLM)D008829
650 2 Molecular Biology. $0 (DNLM)D008967
655 4 Fulltext.
655 4 Periodicals.
655 4 Internet Resources.
655 7 Periodicals. $2 fast $0 (OCoLC)fst01411641
655 7 Periodicals. $2 lcgft
655 7 Ressource Internet (Descripteur de forme) $2 rasuqam
655 7 Périodique électronique (Descripteur de forme) $2 rasuqam
655 2 Periodical. $0 (DNLM)D020492
710 2 International Union of Microbiological Societies.
776 08 $i Online version: $t Molecular microbiology (Online) $x 1365-2958 $w (DLC) 2004233478 $w (OCoLC)37104266
776 08 $i Online version: $t Molecular microbiology $w (OCoLC)571004145
780 05 $t Microbiological sciences $x 0265-1351 $w (DLC)sc 85092679 $w (OCoLC)11070053
850 AAP $a AzTeS $a CPT $a CU $a CU-A $a CU-I $a CU-AM $a CU-RivA $a CU-SB $a CU-SM $a CaBVaUW $a CaOLUM $a CaSSU $a CoU $a DLC $a DNAL $a DNLM $a DeU $a FU $a GAT $a GU $a ICarbS $a ICU $a IaAS $a IaU $a InLP $a InU $a KMK $a MBCo $a MH-BL $a MWhB $a MdBJ $a MdU $a MiDW $a MiEM $a MiU $a MoSW $a MoSW-M $a MoU $a NCH $a NIC $a NRU $a NcRS $a NjP $a NjR $a OCU $a OU $a OrCS $a OrU-S $a PBL $a PPiD $a PU-Med $a RPB-S $a TU $a TxCM $a TxHMC $a TxHR $a ViBlbV $a WaU
856 41 $u http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1365-2958/issues
856 41 $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 41 $u http://firstsearch.oclc.org/journal=0950-382x;screen=info;ECOIP $z Address for accessing the journal from an authorized IP address through OCLC FirstSearch Electronic Collections Online

ATTACHMENT 19a

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050    00$aQR6 $b.R46
060    00$aW1 $bRE445S
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245    00$aBrazilian journal of microbiology : $b[publication of the
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260    ##$aRio de Janeiro, RJ, Brasil : $bSociedade Brasileira de
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264    21$32016-2018 : $aRio de Janeiro, RJ, Brazil : $bElsevier
264    31$32019- : $aSwitzerland, AG : $bSpringer International
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337    ##$aunmediated $bn $2rdamedia
338    ##$avolume $bnc $2rdacarrier
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500    ##$aPrint issues ceased with v. 39 (2008)?
510    1#$91 $aMEDLINE $bv44n1, 2013-
510    0#$91 $aPubMed $bv39, 2008-
510    0#$aPMC
525    ##$aSupplements accompany some numbers.
530    ##$aAlso issued online and on CD-ROM.
546    ##$aEnglish and Portuguese, with summary in the other
language. Online version available in English and Portuguese.
Search interface available in English, Portuguese, and Spanish.
588    ##$aLatest issue consulted: Volume 50, issue 1 (January
2019).
650    12$aMicrobiology
655    #2$aPeriodical
710    2#$aSociedade Brasileira de Microbiologia.
780    00$tRevista de microbiologia $x0001-3714 $w(DLC)   77615071
$w(OCoLC)2409321 $w(DNLM)1246147
856    4#$uhttps://www.ncbi.nlm.nih.gov/pmc/journals/2094/
856    4#$uhttp://www.sciencedirect.com/science/journal/15178382
856    4#$uhttps://link.springer.com/journal/42770
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935    ##$a(DNLM)1095924-nlmdb
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992    ##$pP2 $eEF $a20010525
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994    ##$aCDN $b20010530
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998    ##$aERMSLC 118128 $b20200326
999    ##$aAUTH
035    ##$a(OCoLC)46773450
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ATTACHMENT 19b

Microbiology MeSH Descriptor Data 2023

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Microbiology
Tree Number(s)
H01.158.273.540
Unique ID
D008829
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D008829
Annotation
the discipline (education, history, etc) only; use MICROBIOLOGICAL PHENOMENA or specifics treed under it for physiologic characteristics and processes of microorganisms, or the qualifier /microbiol with specific anatomical terms, organisms and diseases
Scope Note
The study of microorganisms such as fungi, bacteria, algae, archaea, and viruses.
Entry Version
MICROBIOL
See Also
Archaea
Bacteria
Fungi
Viruses
Entry Combination
methods:Microbiological Techniques
Date Established
1966/01/01
Date of Entry
1999/01/01
Revision Date
2009/07/06

page delivered in 0.187s

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Bethesda, MD 20894

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HHS Vulnerability Disclosure

NLM Support Center
Accessibility
Careers

ATTACHMENT 19c

OCLC 46773450 **No holdings in XXX - 26 other holdings**

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016 7 101095924 $2 DNLM
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041 0 eng $a por
042 pcc
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060 00 W1 $b RE445S
070 0 QR1 $b .R4
072 0 X300
082 00 576/.05
090 $b
210 10 Braz. J. Microbiol
245 00 Brazilian journal of microbiology : $b [publication of the Brazilian Society for Microbiology].
260 Rio de Janeiro, RJ, Brasil : $b Sociedade Brasileira de Microbiologia
264 21 $3 2016-2018 : $a Rio de Janeiro, RJ, Brazil : $b Elsevier
264 31 $3 2019- : $a [Rio de Janeiro, RJ, Brasil] : $b Sociedade Brasileira de Microbiologia
300 volumes : $b illustrations ; $c 28 cm
310 Quarterly
336 text $b txt $2 rdacontent
337 unmediated $b n $2 rdamedia
338 volume $b nc $2 rdacarrier
510 0 Chemical abstracts $x 0009-2258
530 Also issued via the World Wide Web; some issues on CD-ROM.
546 English and Portuguese, with summary in the other language.
588 Description based on: Vol. 31, no. 1 (Jan.-Mar. 2000); title from cover.
588 Latest issue consulted: Vol. 32, no. 2 (Apr.-June 2001).
650 0 Microbiology $v Periodicals.
650 12 Microbiology.
650 7 Microbiology. $2 fast $0 (OCoLC)fst01019576
655 2 Periodicals.
655 7 Periodicals. $2 fast $0 (OCoLC)fst01411641
710 2 Sociedade Brasileira de Microbiologia.
776 0 $t Brazilian journal of microbiology (Online) $w (DLC) 2001252641 $w (OCoLC)46982656

776 08 $i Online version: $t Brazilian journal of microbiology $w (OCoLC)712484613
780 00 $t Revista de microbiologia $x 0001-3714 $w (DLC) 77615071 $w (OCoLC)2409321
850 DLC $a DNAL $a DNLM
856 41 $u http://bibpurl.oclc.org/web/7664 $u http://www.scielo.br/bjm.htm $7 0
856 41 $u http://www.scielo.br/rm $7 0
856 4 $u http://www.sciencedirect.com/science/journal/15178382

ATTACHMENT 20a

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245    00$aPharmacological reports : $bPR.
246    30$aPR
260    ##$aKraków, Poland : $bInstitute of Pharmacology, Polish
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300    ##$av. : $bill.
310    ##$aBimonthly
362    0#$aVol. 57, no. 1 (Jan./Feb. 2005)-
500    ##$aTitle from cover.
500    ##$aVol. 58 incl. a special issue: Basic and Clinical Aspects
of Endothelial Dysfunction.
510    1#$aIndex medicus $bv57n1, Jan./Feb. 2005-
510    1#$aMEDLINE $bv57n1, Jan./Feb. 2005-
510    1#$aPubMed $bv57n1, Jan./Feb. 2005-
530    ##$aAlso issue online.
710    2#$aZakład Farmakologii (Polska Akademia Nauk)
780    00$tPolish journal of pharmacology $x1230-6002
$w(OCoLC)28711812
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948    ##$aLTI 09/01/2008
994    ##$aC0 $bLHL
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ATTACHMENT 20b

OCLC 59004163 **No holdings in XXX - 62 other holdings**

Continuing Resources

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016 7 101234999 $2 DNLM
019 926272370 $a 971912719 $a 974866564 $a 981618948 $a 987694522 $a 989274404 $a 989757630 $a 990385482 $a 994399239 $a 1014050313 $a 1043622311 $a 1087278955 $a 1089033537
022 1734-1140 $l 1734-1140
042 pcc
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060 00 W1 $b PO23LS
090 $b
210 10 Pharmacol Rep $2 dnlm
245 00 Pharmacological reports : $b PR.
246 30 PR
260 Kraków, Poland : $b Institute of Pharmacology, Polish Academy of Sciences, $c ©2005-
264 31 Wroclaw, Poland : $b Elsevier Sp. z o. o.
300 volumes : $b illustrations
310 Bimonthly
336 text $b txt $2 rdacontent
337 unmediated $b n $2 rdamedia
338 volume $b nc $2 rdacarrier
362 0 Vol. 57, no. 1 (Jan./Feb. 2005)-
500 Title from cover.
530 Also issue online.
650 0 Pharmacology $v Periodicals.
650 0 Drug development $v Periodicals.
650 7 Drug development. $2 fast $0 (OCoLC)fst00898670
650 7 Pharmacology. $2 fast $0 (OCoLC)fst01060259
650 12 Pharmacology $0 (DNLM)D010600
650 22 Pharmaceutical Preparations $0 (DNLM)D004364
655 7 Periodicals. $2 fast $0 (OCoLC)fst01411641
655 2 Periodical $0 (DNLM)D020492
655 0 Electronic journals.
655 7 Periodicals. $2 lcgft
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776 08 $i Online version: $t Pharmacological reports $x 2299-5684 $w (DLC) 2005243416 $w (OCoLC)60630334
780 00 $t Polish journal of pharmacology $x 1230-6002 $w (DLC)sn 93038389 $w (OCoLC)28711812
850 DNLM
856 41 $u http://www.sciencedirect.com/science/journal/17341140
856 41 $u http://bibpurl.oclc.org/web/10083 $u http://www.if-pan.krakow.pl/pjp $7 0

ATTACHMENT 20c

LIBRARY OF CONGRESS AUTHORITIES

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

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

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ATTACHMENT 20d

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

LC control no.: sh 97007921

LCCN Permalink: https://lccn.loc.gov/sh97007921

HEADING: Drug development

000 00908cz a2200265n 450

001 4890348

005 20120402074413.0

008 971021i| anannbabn |a ana

010 __ |**a** sh 97007921

035 __ |**a** (DLC)sh 97007921

035 __ |**a** (DLC)237033

040 __ |**a** DLC |**c** DLC |**d** DLC

053 _0 |**a** RM301.25

150 __ |**a** Drug development

360 __ |**i** subdivision |**a** Development |**i** under individual drugs and groups of drugs, e.g. |**a** Antineoplastic agents--Development

450 __ |**a** Development of drugs

450 __ |**a** Drugs |**x** Development

450 __ |**a** New drug development

550 __ |**w** g |**a** Pharmacology

550 __ |**w** g |**a** Pharmacy

670 __ |**a** Work cat.: 97-202811: Senn, S. Statistical issues in drug development, c1997.

670 __ |**a** LC database, Nov. 12, 1997 |**b** (titles: drug development; new drug development)

906 __ |**t** 9746 |**u** te04 |**v** 0

952 __ |**a** LC pattern: Drug utilization; Drug monitoring

953 __ |**a** jc01 |**b** ta25

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

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ATTACHMENT 21a

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035    ##$a(MoKL)277136-lhalldb
035    ##$a(lhalldb)277136-lhalldb
037    ##$bSpringer-Verlag New York Inc., Service Center Secaucus,
44 Hartz Way, Secaucus, N.J. 07094
037    ##$c$278.00
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245    00$aApplied microbiology and biotechnology.
260    ##$aBerlin ; $aNew York : $bSpringer International, $c[1984?-
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310    ##$aTwo vols. of 6 issues
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500    ##$aTitle from cover.
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510    2#$aEnvironment abstracts $x0093-3287
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510    2#$aBIOTECHSEEK $b1990-
510    2#$aLife sciences collection
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901    ##$cSer
936    ##$aDec. 1984
948    ##$aLTI 09/01/2008
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ATTACHMENT 21b

OCLC 10397249 **No holdings in XXX - 247 other holdings**

Continuing Resources

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022 0 0175-7598 $l 0175-7598 $y 0171-1741 $2 z
030 AMBIDG
030 EJABDD
037 $b Springer-Verlag New York Inc., Service Center Secaucus, 44 Hartz Way, Secaucus, N.J. 07094
042 pcc $a nsdp
050 00 QR53 $b .E87
060 00 W1 $b AP528B
070 QR1.E9
082 04 660/.62/05 $2 19
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210 0 Appl. microbiol. biotechnol.
222 0 Applied microbiology and biotechnology
245 00 Applied microbiology and biotechnology.
260 Berlin ; $a New York : $b Springer International, $c [1984?-]
300 volumes : $b illustrations ; $c 28 cm
310 Two vols. of 6 issues
336 text $b txt $2 rdacontent
337 unmediated $b n $2 rdamedia
338 volume $b nc $2 rdacarrier
500 Title from cover.
510 2 Chemical abstracts $x 0009-2258 $b 1984-
588 Latest issue consulted: Dec. 1984.
650 0 Industrial microbiology $v Periodicals.

650 0 Biotechnology $v Periodicals.
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650 0 Microbiology.
650 0 Medical technology.
650 2 Microbiology $0 (DNLM)D008829
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650 6 Microbiologie $0 (CaQQLa)201-0003856 $v Périodiques. $0 (CaQQLa)201-0378307
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776 08 $i Online version: $t Applied microbiology and biotechnology (Online) $x 1432-0614 $w (DLC) 2004233650 $w (OCoLC)40750225
780 00 $t European journal of applied microbiology and biotechnology $x 0171-1741 $w (DLC) 80640613 $w (OCoLC)3929117
850 AAP $a CPT $a CSt-L $a CU $a CU-A $a CU-I $a CU-SB $a CaAEU $a CaMWU $a CaOLU $a CaOTU $a CaOWtU $a CaSSU $a CoFS $a DLC $a DNAL $a DeU $a DNLM $a GU $a IEN $a IaAS $a IaU $a InLP $a InU $a KMK $a LU $a MCM $a MWhB $a MdBJ $a MdU $a MiDW $a MiEM $a MiU $a MnSU $a MnU $a MoKL $a MoSW-M $a MsU $a MtBC $a NNC $a NRU $a NcD $a NcRS $a NhU $a NjR $a OClW-H $a OU $a OkU $a OrCS $a PBL $a PPD $a TU $a TxCM $a TxDaM $a TxHR $a TxU $a ULA $a ViBlbV $a ViU $a WaU
856 41 $u http://www.springerlink.com/openurl.asp?genre=journal&issn=0175-7598
856 41 $u http://www.springerlink.com/link.asp?id=100457

ATTACHMENT 21c

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

LC control no.: sh2001012575

LCCN Permalink: https://lccn.loc.gov/sh2001012575

HEADING: Microtechnology

000 02254cz a2200313n 450

001 5551444

005 20120402081922.0

008 020110i| anannbabn |a ana c

010 __ |**a** sh2001012575

035 __ |**a** (DLC)5551444

035 __ |**a** (DLC)sh2001012575

035 __ |**a** (DLC)278839

040 __ |**a** NNC |**b** eng |**c** DLC |**d** OrCS

150 __ |**a** Microtechnology

450 __ |**a** Micro-technology

450 __ |**a** Microtechnologies

550 __ |**w** g |**a** High technology

670 __ |**a** Work cat.: International IEEE-EMBS Special Topic Conference on Microtechnologies in Medicine & Biology (1st : 2000 : Lyon, France). 1st annual International IEEE-EMBS Special Topic Conference on Microtechnologies in Medicine & Biology, c2000: |**b** t.p. (microtechnologies) p. v (microtechnology)

670 __ |**a** The cutting edge : an encyclopedia of advanced technologies, 2000: |**b** index (microtechnology) p. 188, under nanotechnology (simple scaling down of normal machines to microscopic size (often also called microtechnology) ... microtechnology is far more advanced than nanotechnology)

670 __ |**a** Micro- and nanotechnology for biomedical and environmental applications, 2000.

670 __ |**a** Univ. of Washington Center for Applied Microtechnology (CAM) WWW home page, Dec. 12, 2001: |**b** What is CAM? (embraces both the existing microelectronics industry and microelectromechanical systems)

670 __ |**a** McGraw-Hill dictionary of scientific and technical terms, 2003 : |**b** (Nanotechnology: 1) Systems for tranforming matter, energy, and information that are based on nanometer-scale components with precisely defined molecular features. 2) Techniques that produce or measure features less than 100 nanometers in size)

675 __ |**a** Volti, R. The facts on file encyc. of sci., tech. and society, c1999; |**a** The intl encyc. of sci. and tech., 1999; |**a** McGraw-Hill encyc. of sci. & tech., 1997

680 __ |**i** Here are entered works on the technology of scaling down machines to microscopic size. Works on techniques that produce or measure features less than 100 nanometers in size are entered under |**a** Nanotechnology.

681 __ |**i** Note under |**a** Nanotechnology

910 __ |**a** Proposal saved by tc03 on 10/04/2011 at 14:59:05

952 __ |**a** 0 bib. record(s) to be changed

953 __ |**a** yz00 |**b** ec11

906 __ |**t** 1126 |**v** 0

◀ Previous Next ▶

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

Questions, comments, error reports: Contact Us

ATTACHMENT 21d

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

LC control no.: sh 85084783

LCCN Permalink: https://lccn.loc.gov/sh85084783

HEADING: Microbiology

000 00828cz a2200205n 450

001 4735234

005 20120327093810.0

008 860211i| anannbabn |a ana

010 __ |**a** sh 85084783

035 __ |**a** (DLC)sh 85084783

035 __ |**a** (DLC)81919

040 __ |**a** DLC |**c** DLC |**d** DLC

053 _0 |**a** QR

150 __ |**a** Microbiology

360 __ |**i** subdivision |**a** Microbiology |**i** under individual animals and groups of animals, individual plants and groups of plants, individual diseases and types of diseases, individual organs and regions of the body, and individual materials and types of materials, e.g. |**a** Fishes--Microbiology; Corn--Microbiology; Tuberculosis--Microbiology; Heart--Microbiology; Metals--Microbiology

450 __ |**a** Microbial biology

550 __ |**w** g |**a** Biology

550 __ |**a** Microorganisms

906 __ |**t** 9319 |**u** te03 |**v** 0

953 __ |**a** xx00 |**b** ta25

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

Questions, comments, error reports: Contact Us

ATTACHMENT 21e

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

LC control no.: sh 85083046
LCCN Permalink: https://lccn.loc.gov/sh85083046
HEADING: Medical technology

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001 4733549
005 20120327093519.0
008 860211i| anannbabn |a ana
010 __ |**a** sh 85083046
035 __ |**a** (DLC)sh 85083046
035 __ |**a** (DLC)80234
040 __ |**a** DLC |**c** DLC |**d** DLC
053 _0 |**a** R855 |**b** R855.5
150 __ |**a** Medical technology
450 __ |**a** Health care technology
450 __ |**a** Health technology
550 __ |**w** g |**a** Technology
680 __ |**i** Here are entered works on the techniques, equipment, drugs and procedures used to deliver medical care and the systems within which such care is delivered.
906 __ |**t** 9436 |**u** te03 |**v** 0
953 __ |**a** xx00 |**b** ta25

Previous Next

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Help - Search - Search History - Headings List - Start Over



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Washington, DC 20540

Questions, comments, error reports: Contact Us

ATTACHMENT 22a

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246    1#$aFMICB
260    ##$aLausanne : $bFrontiers Research Foundation
336    ##$atext $btxt $2rdacontent
337    ##$acomputer $bc $2rdamedia
338    ##$aonline resource $bcr $2rdacarrier
362    1#$aBegan in 2010.
500    ##$aFrontiers in virology is a speciality section of
Frontiers in microbiology.
510    0#$91 $aPubMed $bv1, 2010-
510    0#$aPMC
515    ##$aArticles within an annual volume are added as received
during the year.
588    ##$aDescription based on: Vol. 1, article 1 (July 2010);
title from PDF caption (publisher's Web site, viewed June 7, 2011).
588    ##$aLatest issue consulted: Vol. 2, article 124 (June 2011)
(viewed June 7, 2011).
650    12$aMicrobiological Phenomena
650    22$aMicrobiology
655    #2$aPeriodical
730    0#$aFrontiers in virology.
856    40$uhttp://www.frontiersin.org/microbiology
856    40$uhttps://www.ncbi.nlm.nih.gov/pmc/journals/1526/
911    ##$aElectronic only
935    ##$a(DNLM)1548977-nlmdb
992    ##$pP2 $eEF $a20110211
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996    ##$aCONSER $b20000101
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999    ##$aAUTH
035    ##$a(OCoLC)713798955
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ATTACHMENT 22b

Microbiological Phenomena MeSH Descriptor Data 2023

Details | Qualifiers | MeSH Tree Structures | Concepts

MeSH Heading
Microbiological Phenomena
Tree Number(s)
G06
Unique ID
D008827
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D008827
Annotation
general or unspecified; prefer specifics
Scope Note
Physiological processes and properties of microorganisms, such as ARCHAEA; BACTERIA; RICKETTSIA; VIRUSES; and FUNGI.
Entry Term(s)
Microbial Concepts
Microbial Phenomena
Microbiologic Concepts
Microbiologic Phenomena
Microbiological Phenomenon
Microbiological Process
Microbiological Processes
Phenomena, Microbiologic
See Also
Dysbiosis
Public MeSH Note
2009; see MICROBIOLOGIC PHENOMENA 1998-2008; for MICROBIOLOGICAL PROCESSES see 2009-2016
History Note
2009 (1998)
Date Established
1998/01/01
Date of Entry
1999/01/01
Revision Date
2016/06/17

Connect with NLM
National Library of Medicine
8600 Rockville Pike
Bethesda, MD 20894
Web Policies
FOIA
HHS Vulnerability Disclosure

ATTACHMENT 22c

OCLC 713798955 **No holdings in XXX - 372 other holdings**

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019 1098496689
022 1664-302X $l 1664-302X
042 pcc
050 14 QR1 $b .F76
060 10 W1
090 $b
130 0 Frontiers in microbiology (Online)
210 10 Front Microbiol $2 dnlm
245 10 Frontiers in microbiology.
246 13 FMICB
246 13 Front. Microbio
260 Lausanne : $b Frontiers Research Foundation, $c 2010-
300 1 online resource
336 text $b txt $2 rdacontent
337 computer $b c $2 rdamedia
338 online resource $b cr $2 rdacarrier
362 1 Began with: Vol. 1 (2010).
515 Articles within an annual volume are added as received during the year.
588 Description based on: Vol. 1 (2010); title from PDF caption (publisher's Web site, viewed June 7, 2011).
588 Latest issue consulted: Vol. 2 (2011) (viewed June 7, 2011).
650 0 Microbiology $v Periodicals.
650 12 Microbiological Phenomena. $0 (DNLM)D008827
650 22 Microbiology. $0 (DNLM)D008829
650 7 Microbiology. $2 fast $0 (OCoLC)fst01019576
655 0 Electronic journals.
655 2 Periodical. $0 (DNLM)D020492
655 7 Periodicals. $2 fast $0 (OCoLC)fst01411641
856 40 $u http://bibpurl.oclc.org/web/53964 $u http://www.frontiersin.org/microbiology $7 0
856 40 $u http://www.ncbi.nlm.nih.gov/pmc/issues/196677/
856 40 $u http://search.ebscohost.com/direct.asp?db=a9h&jid=%22EV34%22&scope=site

ATTACHMENT 23a

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510    1#$91 $aMEDLINE $bv8n1, 2009-
510    0#$91 $aPubMed $bv1n1,2002-
510    0#$aPMC
515    ##$aArticles are added consecutively to the current annual
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516    ##$aText (electronic journal) available in HTML and PDF
formats.
538    ##$aSystem requirements: Adobe Acrobat Reader.
538    ##$aMode of access: Internet.
650    12$aCells $xmicrobiology
650    22$aBiotechnology
650    22$aCell Culture Techniques $xstatistics & numerical data
650    22$aGenetics, Microbial
650    22$aRecombinant Proteins
856    40$uhttps://microbialcellfactories.biomedcentral.com/
856    40$uhttps://www.ncbi.nlm.nih.gov/pmc/journals/100/
911    ##$aElectronic only
914    ##$aPortico $bCurrent to 2022 as of 20220118 $cISSN_14752859
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ATTACHMENT 23b

OCLC 49659655 **No holdings in XXX - 1287 other holdings**

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060 10 W1
090 $b
210 10 Microb Cell Fact $2 dnlm
245 00 Microbial cell factories.
260 London : $b BioMed Central, $c 2002-
310 Annual
336 text $b txt $2 rdacontent
337 computer $b c $2 rdamedia
338 online resource $b cr $2 rdacarrier
362 0 Vol. 1 (2002)-
500 Title from BioMed Central archive volume screen (viewed Aug. 15, 2002).
515 Articles are added consecutively to the current annual volume.
538 Mode of access: World Wide Web.
588 1 Vol. 20, issue 1 (Dec. 2020) (SpringerLink, viewed February 24, 2021)
650 0 Microbial biotechnology $v Periodicals.
650 0 Recombinant proteins $x Synthesis $v Periodicals.
650 7 Histology. $2 ebps
650 7 Microbiology. $2 ebps
650 7 Microbial biotechnology. $2 fast $0 (OCoLC)fst01019471
650 7 Recombinant proteins $x Synthesis. $2 fast $0 (OCoLC)fst01091506
650 12 Cells $x microbiology. $0 (DNLM)D002477Q000382
650 22 Recombinant Proteins. $0 (DNLM)D011994

650 22 Culture Techniques $x statistics & numerical data. $0 (DNLM)D046508Q000706
650 22 Genetics, Microbial. $0 (DNLM)D005827
650 22 Biotechnology. $0 (DNLM)D001709
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856 40 $u https://link.springer.com/journal/volumesAndIssues/12934
856 40 $u http://bibpurl.oclc.org/web/7386 $u http://www.microbialcellfactories.com/ $7 0
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856 40 $u http://www.microbialcellfactories.com/start.asp

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222    #0$aBiotechnology and bioengineering
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246    10$aBiotechnology & bioengineering
260    ##$aNew York, $bWiley [etc.]
310    ##$aSemimonthly (except 5 times in Jan., and monthly in Mar.,
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321    ##$aMonthly, $b<Mar. 1962->
362    0#$av. 4- Mar. 1962-
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500    ##$a1998-2000, include section: Combinatorial chemistry.
510    2#$aAbstract bulletin of the Institute of Paper Chemistry
$x0020-3033
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510    2#$aBiological abstracts $x0006-3169
510    2#$aCanadian Environment
510    2#$aChemical abstracts $x0009-2258
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510    2#$aEngineering index bioengineering abstracts $x0736-6213
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510    2#$aEnvironment abstracts $x0093-3287
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510    2#$aLife sciences collection
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525    ##$aFor v22, suppl. n1 SEE: QR151. F45 1980.
650    #0$aBiotechnology $vPeriodicals
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780    00$tJournal of biochemical and microbiological technology and
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948    ##$aLTI 09/01/2008
948    ##$aLTI 07/21/2009
948    ##$aLTI 09/04/2009
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ATTACHMENT 24b

OCLC 1224461 **No holdings in XXX - 448 other holdings**

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060 00 W1 $b BI918N
070 0 381 $b J8224
072 0 X300
082 10 574 $2 11
090 $b
210 0 Biotechnol. bioeng. $b (Print)
222 0 Biotechnology and bioengineering $b (Print)
245 00 Biotechnology and bioengineering.
246 3 Biotechnology & bioengineering
246 1 $i Volumes for 1998-<2000 include section: $a Combinatorial chemistry
260 New York : $b Wiley
300 volumes $b illustrations $c 23 cm
310 Eighteen issues yearly, $b 2006-
321 Frequency varies, $b 1962-2005
336 text $b txt $2 rdacontent
337 unmediated $b n $2 rdamedia
338 volume $b nc $2 rdacarrier

362 0 v. 4- Mar. 1962-
500 Published: Hoboken, N.J. : Wiley Subscription Services, Inc., <2005-
650 0 Biotechnology $v Periodicals.
650 0 Bioengineering $v Periodicals.
650 0 Biochemistry $v Periodicals.
650 0 Microbiology $v Periodicals.
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650 0 Technology.
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780 00 $t Journal of biochemical and microbiological technology and engineering $x 0368-1467 $w (DLC)sf 84000014 $w (OCoLC)2262998
856 41 $z 1962-1995 $u http://www3.interscience.wiley.com/cgi-bin/jhome/107561430
856 41 $z 1996-Current $u http://www3.interscience.wiley.com/cgi-bin/jhome/71002188

ATTACHMENT 24c

LIBRARY OF CONGRESS AUTHORITIES

LC control no.: sh2009117061
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HEADING: Bioengineering Periodicals

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667 __ |**a** Record generated for validation purposes.
670 __ |**a** Work cat.: Bio-medical materials and engineering, 1991-
906 __ |**t** 8888 |**u** tc00 |**v** 0
953 __ |**a** tc00

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ATTACHMENT 24d

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LC control no.: sh 85133164
LCCN Permalink: https://lccn.loc.gov/sh85133164
HEADING: Technology Periodicals

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001 4781905
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035 __ |**a** (DLC)128590
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150 __ |**a** Technology |**v** Periodicals
906 __ |**t** 7647 |**u** ---- |**v** 0
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ATTACHMENT 24e

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

LC control no.: sh 85014171

LCCN Permalink: https://lccn.loc.gov/sh85014171

HEADING: Biochemistry

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053 _0 |**a** QP501 |**b** QP801 |**c** Physiology

150 __ |**a** Biochemistry

360 __ |**i** subdivision |**a** Composition |**i** under individual animals and groups of animals, e.g. |**a** Fishes--Composition; Cattle--Composition

450 __ |**w** nne |**a** Biological chemistry

450 __ |**a** Chemical composition of organisms

450 __ |**a** Organisms |**x** Composition

450 __ |**w** nne |**a** Physiological chemistry

550 __ |**w** g |**a** Biology

550 __ |**w** g |**a** Chemistry

550 __ |**w** g |**a** Medical sciences

670 __ |**a** MeSH browser, July 29, 2020 |**b** (Biochemistry. SN The study of the composition, chemical structures, and chemical reactions of living things. In MeSH Tree Structures under Biological Science Disciplines and under Chemistry)

670 __ |**a** Web. 3.

670 __ |**a** Hennepin.

670 __ |**a** McGraw-Hill dict. of sci. and tech. terms, c2003 |**b** (biochemistry [CHEM] The study of chemical substances occurring in living organisms and the reactions and methods for identifying these substances)

670 __ |**a** Tröjbom, M. Chemistry data from surface ecosystems in Forsmark and Laxemar-Simpevarp, 2010: |**b** p. 3 ("chemical composition of the regolith and biota of the terrestrial, limnic, and marine ecosystems")

670 __ |**a** Biology dictionary, via WWW, July 29, 2020 |**b** (Chemical Biology: a scientific discipline that combines chemistry and biology by using chemistry and chemical techniques to study biological systems. The main difference between chemical biology and biochemistry is that chemical biology involves adding novel chemical compounds to a biological system, while biochemistry is the study of chemical reactions that naturally happen inside organisms. Examples of chemical biology research include controlling cell division and other cell activities, using small molecules as targets for treatment, and manipulating stem cells. Differences between chemical biology and biochemistry: Chemical biology adds chemical compounds to biological systems in order to see what effect these chemicals have on cells and tissues. Chemical biologists often synthesize and add new compounds to cells. The goal of chemical biology research is to develop techniques that can eventually be applied to cells in a living organism, such as treatment options for cancer and other diseases. Biochemistry, on the other hand, is all about the chemical processes that already occur naturally in the cell. Instead of adding chemical compounds to cells to see the effects, biochemistry researchers study the chemical reactions that occur in organisms and the molecular makeup of these compounds. Biochemists also tend to study larger molecules like proteins and nucleic acids, while chemical biologists study smaller molecules) |**u** https://biologydictionary.net/chemical-biology/

680 __ |**i** Here are entered works on the study of naturally occurring chemical reactions in organisms. Works on the use of chemistry and chemical techniques to study biological systems are entered under |**a** Chemical biology.

681 __ |**i** Note under |**a** Chemical biology

910 __ |**a** Proposal saved by tc03 on 07/31/2020 at 10:12:44

952 __ |**a** Made for existing bibliographic records

952 __ |**a** LC pattern: Biophysics

906 __ |**t** 1125 |**v** 0

906 __ |**t** 2009 |**v** 0

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

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ATTACHMENT 24f

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

LC control no.: sh 85133147

LCCN Permalink: https://lccn.loc.gov/sh85133147

HEADING: Technology

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005 20120328081518.0

008 860211i| anannbabn |b ana

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035 __ |**a** (DLC)sh 85133147

035 __ |**a** (DLC)128574

040 __ |**a** DLC |**c** DLC |**d** DLC

053 _0 |**a** T |**b** TX

150 __ |**a** Technology

360 __ |**i** headings beginning with the words |**a** Technical |**i** and |**a** Technological; |**i** and subdivision |**a** Technology |**i** under individual wars, e.g. |**a** World War, 1939-1945--Technology

450 __ |**a** Applied science

450 __ |**a** Arts, Useful

450 __ |**a** Science, Applied

450 __ |**a** Useful arts

550 __ |**w** g |**a** Science

550 __ |**a** Industrial arts

550 __ |**a** Material culture

906 __ |**t** 9421 |**u** te05 |**v** 0

953 __ |**a** xx00 |**b** ta21

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Questions, comments, error reports: Contact Us

ATTACHMENT 25a

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550    ##$aOfficial English-language publication of: the Society of
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ATTACHMENT 25b

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070 0 QP601.A1J6
072 0 Q120
090 $b
210 10 J. Ferment. Bioeng.
245 00 Journal of fermentation and bioengineering.
260 Osaka, Japan : $b Society of Fermentation Technology, Japan ; $a Amsterdam, The Netherlands : $b Distributed outside Japan by Elsevier Science Publishers, $c 1989-1998.
300 10 volumes : $b illustrations ; $c 28 cm
310 Monthly
336 text $b txt $2 rdacontent
337 unmediated $b n $2 rdamedia
338 volume $b nc $2 rdacarrier
362 0 Vol. 67, no. 1 (1989)-v. 86, no. 6 (1998).
500 Title from cover.
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550 Official English-language publication of: the Society of Fermentation Technology, 1989- ; the Society for Fermentation and Bioengineering, -Dec. 1998.
650 0 Fermentation $v Periodicals.

650 0 Bioengineering $v Periodicals.
650 0 Microbiology $v Periodicals.
650 0 Industrial microbiology $v Periodicals.
650 0 Biomedical engineering.
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650 12 Biomedical Engineering $0 (DNLM)D001698
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650 7 Forschung und Entwicklung $2 gnd $0 (DE-588)4017897-3
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655 0 Electronic journals.
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655 4 Zeitschrift.
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ATTACHMENT 25c

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ATTACHMENT 25d

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

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LCCN Permalink: https://lccn.loc.gov/sh85047829
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ATTACHMENT 27a

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538 Mode of access: World Wide Web.
588 1 Vol. 20, issue 1 (Dec. 2020) (SpringerLink, viewed February 24, 2021)
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650 0 Recombinant proteins $x Synthesis $v Periodicals.
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ATTACHMENT 29a

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BOOK

Encyclopedia of biological chemistry

Full Record **MARC Tags**

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246	30	|**a** Biological chemistry
250	__	|**a** Second edition.
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700	1_	|**a** Lane, M. Daniel, |**e** editor of compilation.

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ATTACHMENT 29b

OCLC 842339140 **No holdings in XXX - 32 other holdings**

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650 0 Biochemistry.
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650 6 Biochimie $0 (CaQQLa)201-0001077 $v Encyclopédies. $0 (CaQQLa)201-0377762
650 6 Biochimie. $0 (CaQQLa)201-0001077
650 7 biochemistry. $2 aat $0 (CStmoGRI)aat300054538
650 7 Biochemistry. $2 fast $0 (OCoLC)fst00831961
655 2 Encyclopedia $0 (DNLM)D019500
655 7 encyclopedias. $2 aat $0 (CStmoGRI)aatgf300129439
655 7 Encyclopedias. $2 fast $0 (OCoLC)fst01423798
655 7 Encyclopedias. $2 lcgft
655 7 Encyclopédies. $2 rvmgf $0 (CaQQLa)RVMGF-000001062
700 1 Lennarz, William J., $e editor.
700 1 Lane, M. Daniel, $e editor.

ATTACHMENT 29c

Copyright United States Copyright Office

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Public Catalog

Copyright Catalog (1978 to present)
Search Request: Left Anchored Title = Encyclopedia of Biological Chemistry
Search Results: Displaying 1 of 1 entries

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Encyclopedia of Biological Chemistry - Second Edition .

Type of Work: Text
Registration Number / Date: TX0007714784 / 2013-05-06
Application Title: Encyclopedia of Biological Chemistry - Second Edition .
Title: Encyclopedia of Biological Chemistry - Second Edition .
Description: Book, 3 v.
Copyright Claimant: Elsevier Inc., Transfer: By written agreement. Address: 1600 JFK Blvd, Suite 1800, Philadelphia, PA, 19103, United States.
Date of Creation: 2013
Date of Publication: 2013-02-15
Nation of First Publication: United States
Authorship on Application: William Lennarz; Domicile: United States; Citizenship: United States. Authorship: text, compilation, editing.
M. Lane; Domicile: United States; Citizenship: United States. Authorship: text, compilation, editing.
Pre-existing Material: permissioned materials.
Basis of Claim: text, compilation, editing.
Rights and Permissions: permissions@elsevier.com
ISBN: 9780123786302
Names: Lennarz, William
M. Lane
Elsevier Inc.

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ATTACHMENT 30a

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

MARC Bibliographic Record

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100   1_      $aCantor, Charles R.,$d1942-
245   10      $aGenomics :$bthe science and technology behind the human
              genome project /$cCharles R. Cantor, Cassandra L. Smith.
264   _1      $aNew York :$bJohn Wiley & Sons,$c[1999]
264   _4      $c©1999
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Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

300		$axviii, 596 pages, 4 unnumbered pages of plates :$billustrations (some color) ;$c27 cm
336		$atext$btxt$2rdacontent
337		$aunmediated$bn$2rdamedia
338		$avolume$bnc$2rdacarrier
500		$a"A Wiley-Interscience publication."
504		$aIncludes bibliographical references and index.
505	0_	$a1. DNA Chemistry and Biology -- 2. A Genome Overview at the Level of Chromosomes -- 3. Analysis of DNA Sequences by Hybridization -- 4. Polymerase Chain Reaction and Other Methods for In Vitro DNA Amplification -- 5. Principles of DNA Electrophoresis -- 6. Genetic Analysis -- 7. Cytogenetics and Pseudogenetics -- 8. Physical Mapping -- 9. Enhanced Methods for Physical Mapping -- 10. DNA Sequencing: Current Tactics -- 11. Strategies for Large-Scale DNA Sequencing -- 12. Future DNA Sequencing without Length Fractionation -- 13. Finding Genes and Mutations -- 14. Sequence-Specific Manipulation of DNA -- 15. Results and Implications of Large-Scale DNA Sequencing.
650	_0	$aDNA$xAnalysis.
650	_0	$aNucleotide sequence.
650	_0	$aGene mapping.
700	1_	$aSmith, Cassandra L.
997		$aMARCIVE

MMS IDs

Document ID:

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

999854270802121

Network Electronic IDs:

9912218335202121, 9911032370102121

Network Physical IDs:

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ATTACHMENT 30b

OCLC 39700016 **No holdings in XXX - 543 other holdings**

Books

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060 00 QU 58.5 $b C232g 1999
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084 WG 7000 $2 rvk
090 $b
100 1 Cantor, Charles R., $d 1942-
245 10 Genomics : $b the science and technology behind the Human Genome Project / $c Charles R. Cantor, Cassandra L. Smith.
260 New York : $b Wiley, $c ©1999.
300 xviii, 596 pages : $b illustrations (some color) ; $c 26 cm
336 text $b txt $2 rdacontent
337 unmediated $b n $2 rdamedia
338 volume $b nc $2 rdacarrier
500 "A Wiley-Interscience publication."
500 "Published simultaneously in Canada"--Title page verso.
504 Includes bibliographical references and index.
505 00 $g 1. $t DNA Chemistry and Biology -- $g 2. $t A Genome Overview at the Level of Chromosomes -- $g 3. $t Analysis of DNA Sequences by Hybridization -- $g 4. $t Polymerase Chain Reaction and Other Methods for In Vitro DNA Amplification -- $g 5. $t Principles of DNA Electrophoresis -- $g 6. $t Genetic Analysis -- $g 7. $t Cytogenetics and Pseudogenetics -- $g 8. $t Physical Mapping -- $g 9. $t Enhanced Methods for Physical Mapping -- $g 10. $t DNA Sequencing: Current Tactics -- $g 11. $t Strategies for Large-Scale DNA Sequencing -- $g 12. $t Future DNA Sequencing without Length Fractionation -- $g 13. $t Finding Genes and Mutations -- $g 14. $t Sequence-Specific Manipulation of DNA -- $g 15. $t Results and Implications of Large-Scale DNA Sequencing.

520 3 The text in this book explains the fundamental principles that underlie the strategies and technologies used in the human genome project and in modern molecular genetics. It reviews the basic chemical and biological properties of DNA and Chromosomes and analyzes the principles behind the three major techniques for DNA analysis. It also describes DNA mapping.
650 0 Genomics.
650 0 Nucleotide sequence.
650 0 Gene mapping.
650 0 DNA $x Analysis.
610 22 Human Genome Project
650 12 DNA $x analysis $0 (DNLM)D004247Q000032
650 22 Sequence Analysis, DNA $x methods $0 (DNLM)D017422Q000379
650 22 Chromosome Mapping $x methods $0 (DNLM)D002874Q000379
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650 6 Cartes chromosomiques. $0 (CaQQLa)201-0060339
650 6 Génomique. $0 (CaQQLa)201-0363181
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650 7 Gene mapping. $2 fast $0 (OCoLC)fst00939625
650 7 Genomics. $2 fast $0 (OCoLC)fst00940228
650 7 Nucleotide sequence. $2 fast $0 (OCoLC)fst01041106
650 7 Genanalyse $2 gnd $0 (DE-588)4200230-8
650 7 Genomik $2 gnd $0 (DE-588)4776397-8
650 7 Mensch $2 gnd $0 (DE-588)4038639-9
650 17 Human Genome Project. $2 gtt
650 7 DNA $x Analysis. $2 nli
650 7 Nucleotide sequence. $2 nli
650 7 Human gene mapping. $2 nli
650 7 Bioinformatics. $2 nli
650 7 ADN $x Analyse. $2 ram
650 7 Séquence nucléotique. $2 ram
650 7 Liaison génétique. $2 ram
653 00 genetica
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653 00 genome analysis
653 00 mens
653 00 man
653 00 genexpressieanalyse
653 00 genomics
653 10 Genome informatics
653 10 Genoominformatica
655 4 Computer network resources.

700 1 Smith, Cassandra L.
710 2 Human Genome Project.
776 08 $i Online version: $a Cantor, Charles R., 1942- $t Genomics. $d New York : Wiley, ©1999 $w (OCoLC)607121532
776 08 $i Online version: $a Cantor, Charles R., 1942- $t Genomics. $d New York : Wiley, ©1999 $w (OCoLC)627609223
856 41 $3 Table of contents $u http://catdir.loc.gov/catdir/toc/onix05/98040448.html
856 42 $3 Contributor biographical information $u http://catdir.loc.gov/catdir/bios/wiley042/98040448.html
856 42 $3 Publisher description $u http://catdir.loc.gov/catdir/description/wiley034/98040448.html

ATTACHMENT 30c

LIBRARY OF CONGRESS AUTHORITIES

LC control no.: sh2008117525
LCCN Permalink: https://lccn.loc.gov/sh2008117525
HEADING: DNA Analysis

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008 080423|| anannbabn |n ana
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035 __ |**a** (DLC)sh2008117525
040 __ |**a** DLC |**b** eng |**c** DLC
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667 __ |**a** Record generated for validation purposes.
670 __ |**a** Work cat.: Gene cloning and DNA analysis, c2001
906 __ |**t** 8888 |**u** te00 |**v** 0
953 __ |**a** te00

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ATTACHMENT 30d

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

LC control no.: sh 85093159
LCCN Permalink: https://lccn.loc.gov/sh85093159
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550 __ |**w** g |**a** Nucleotides |**x** Analysis
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670 __ |**a** LC data base, 3/22/91.
670 __ |**a** Dorland's med. dict. |**b** (DNA; RNA; Sequence)
670 __ |**a** Dict. of genetics |**b** (see DNA sequence analysis)
906 __ |**t** 0901 |**u** tc09 |**v** 0
953 __ |**a** xx00 |**b** ff04

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Washington, DC 20540

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

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ATTACHMENT 30e

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

LC control no.: sh 85025386
LCCN Permalink: https://lccn.loc.gov/sh85025386
HEADING: Gene mapping

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450 __ |**a** Genome mapping
450 __ |**a** Linkage mapping (Genetics)
450 __ |**a** Mapping, Gene
550 __ |**w** g |**a** Genetics |**x** Technique
670 __ |**a** MESH |**b** (Chromosome mapping x Gene mapping, Linkage mapping)
670 __ |**a** CAB thes. |**b** (Gene mapping)
670 __ |**a** BDNE3 |**b** (Gene mapping)
670 __ |**a** Dorland's med. dict. |**b** (Map, gene m.; mapping, also called gene mapping)
670 __ |**a** Lee, T.F. The Human Genome Project, 1991 |**b** (Gene mapping, chromosome mapping, genetic mapping)
906 __ |**t** 9208 |**u** fk05 |**v** 0
952 __ |**a** 18 bib. records to be changed
953 __ |**a** xx00 |**b** fj25

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Washington, DC 20540

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URL: http://authorities.loc.gov/
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Public Catalog

Copyright Catalog (1978 to present)
Search Request: Left Anchored Title = Genomics: The Science and Technology Behind the Human Genome Project
Search Results: Displaying 1 of 1 entries

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Genomics : the science and technology behind the human genome project /...

Type of Work: Text
Registration Number / Date: TX0004936725 / 1999-02-19
Title: Genomics : the science and technology behind the human genome project / Charles R. Cantor, Cassandra L. Smith.
Imprint: New York : J. Wiley, c1999.
Description: 596 p.
Copyright Claimant: John Wiley & Sons, Inc.
Date of Creation: 1997
Date of Publication: 1999-02-02
Names: Cantor, Charles R.
Smith, Cassandra L.
John Wiley & Sons, Inc.

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ATTACHMENT 31a

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

MARC Bibliographic Record

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082	00	$a571.6$221
245	00	$aMolecular biology of the cell /$cBruce Alberts ... [and others].

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

246 30 $aCell

250 $aFourth edition.

264 _1 $aNew York :$bGarland Science,$c2002.

300 $axxxiv, 1463 pages, 36 pages, 49 pages :$billustrations (some color) ;$c29 cm +$e1 computer optical disc (4 3/4 in.)

336 $atext$btxt$2rdacontent

337 $aunmediated$bn$2rdamedia

338 $avolume$bnc$2rdacarrier

500 $aTitle on disk: Cell biology interactive.

500 $aCD-ROm contains over 90 video clips, animations, molecular structures and high-resolution micrographs.

504 $aIncludes bibliographical references and index.

530 $aAlso available on the Internet.

538 $aSystem requirements for accompanying disk (Windows): IBM-compatible PC (5000Mhz processor of faster recommended); 64 MB RAM (128 MB recommended); Windows 95, 98, Me, NT, 2000, XP; DirectX version 3.0 or later recommended; Sound blaster or compatible sound card and speakers; CD-ROM drive.

538 $aSystem requirements for accompanying disk (Macintosh): Power PC processor-based Macintosh (400Mhz processor or faster recommended); 64 MB RAM (128 MB recommended); System 8.6 or 9.X (not fully OSXC compatible. OSX users must run this program in "Classic" OS 9.X mode); CD-ROM drive.

505 0_ $aPt. I. Introduction to the Cell -- 1. Cells and Genomes -- 2. Cell Chemistry and Biosynthesis -- 3. Proteins -- Pt. II. Basic Genetic Mechanisms -- 4. DNA and Chromosomes -- 5. DNA Replication, Repair, and Recombination -- 6. How Cells Read

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

the Genome: From DNA to Protein -- 7. Control of Gene Expression -- Pt. III. Methods -- 8. Manipulating Proteins, DNA, and RNA -- 9. Visualizing Cells -- Pt. IV. Internal Organization of the Cell -- 10. Membrane Structure -- 11. Membrane Transport of Small Molecules and the Electrical Properties of Membranes -- 12. Intracellular Compartments and Protein Sorting -- 13. Intracellular Vesicular Traffic -- 14. Energy Conversion: Mitochondria and Chloroplasts -- 15. Cell Communication -- 16. The Cytoskeleton -- 17. The Cell Cycle and Programmed Cell Death -- 18. The Mechanics of Cell Division -- Pt. V. Cells in their Social Context -- 19. Cell Junctions, Cell Adhesion, and the Extracellular Matrix -- 20. Germ Cells and Fertilization -- 21. Development of Multicellular Organisms -- 22. Histology: The Lives and Deaths of Cells in Tissues -- 23. Cancer -- 24. The Adaptive Immune System -- 25. Pathogens, Infection, and Innate Immunity -- Tables: The Genetic Code, Amino Acids.

650 _0 $aCytology.

650 _0 $aMolecular biology.

650 _2 $aCells.

650 _2 $aCell Physiological Phenomena.

650 _2 $aMolecular Biology.

650 _2 $aSoftware.

700 1_ $aAlberts, Bruce.

740 02 $aCell biology interactive.

856 41 $zAvailable through NCBI: to view the content of this book, initiate a search query using the search box.$uhttp://www.ncbi.nlm.nih.gov/books/bv.fcgi?call=bv.View..ShowSection&rid=mboc4

956 $afree inet$9LOCAL

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

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Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

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245    00    $aMolecular biology of the cell /$cBruce Alberts ... [and
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250          $a4th ed.

260          $aNew York :$bGarland Science,$cc2002.

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337          $acomputer$bc

338          $aonline resource$bcr

504          $aIncludes bibliographical references and index.

500          $aBibliographic Level Mode of Issuance: Monograph

546          $aEnglish

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650    _0    $aMolecular biology.

650    _2    $aCells.

650    _2    $aAnatomy

650    _2    $aBiochemistry

650    _2    $aGenetics

650    _2    $aBiology
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Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

650 _2 $aBiological Science Disciplines

650 _2 $aChemistry

650 _2 $aNatural Science Disciplines

650 _2 $aDisciplines and Occupations

650 _2 $aMolecular Biology

650 _2 $aCells

650 _7 $aBiology$2HILCC

650 _7 $aHealth & Biological Sciences$2HILCC

650 _7 $aCytology$2HILCC

700 1_ $aAlberts, Bruce.

906 $aBOOK

999 $aThis Record contains information from the Harvard Library Bibliographic Dataset, which is provided by the Harvard Library under its Bibliographic Dataset Use Terms and includes data made available by, among others the Library of Congress

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Network Physical IDs:

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Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

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ATTACHMENT 31b

OCLC 48122761 **No holdings in XXX - 911 other holdings**

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084 BIO 200f $2 stub
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090 $b
100 1 Alberts, Bruce, $e author.
245 10 Molecular biology of the cell / $c Bruce Alberts, Alexander Johnson, Julian Lewis, Martin Raff, Keith Roberts, Peter Walter.
250 4th ed.
260 New York : $b Garland Science, $c 2002.
300 xxxiv, [1548] pages : $b illustrations (some color) ; $c 29 cm
336 text $b txt $2 rdacontent
337 unmediated $b n $2 rdamedia
338 volume $b nc $2 rdacarrier
530 Also available online.
538 System requirements for accompanying CD-ROM (Windows): IBM-compatible PC (5000Mhz processor or faster recommended); 64 MB RAM (128 MB recommended); Windows 95, 98, Me, NT, 2000, XP; DirectX version 3.0 or later recommended; Sound blaster or compatible sound card and speakers; CD-ROM drive.
538 System requiremetns for accompanying DC-ROM (Macintosh): Power PC processor-based Macintosh (400MHz processor or faster recommended); 64 MB RAM (129 MB recommended); Ssystem 8.6 or 9.X (nor fully OSXC compatible; OSX users must run this progaram in "Classic" OS 9.x mode); CD-ROM drive.
504 Includes bibliographical references and index.
500 CD-ROM contains: Video clips -- Animations -- Molecular structures -- High-resolution micrographs.
505 00 $g Part I -- Introduction to the cell : $t Cells and genomes -- $t Cell chemistry and biosynthesis -- $t Proteins $g Part II -- Basic genetic mechanisms : $t DNA and chromosomes -- $t DNA replication, repair, and recombination -- $t How cells read the genome: from DNA to Protein -- $t Control of gene expression $g Part III -- Methods : $t Manipulating proteins, DNA, and RNA -- $t Visualizing cells $g Part IV -- Internal organization of the cell : $t Membrane structure -- $t Membrane transport of small molecules and the electrical properties of membranes -- $t Intracellular compartments and protein sorting -- $t Intracellular vesicular traffic -- $t Energy conversion: mitochondria and chloroplasts -- $t Cell communication -- $t Cytoskeleton -- $t Cell cycle and programmed cell death -- $t Mechanics of cell division $g Part V -- Cells in their social context : $t Cell junctions, cell adhesion, and the extracellular matrix -- $t Germ cells and fertilzation -- $t Development of multicellular organisms -- $t Histology: the lives and deaths of cells in tissues -- $t Cancer -- $t Adaptive Immune system -- $t Pathogens, infection, and innate immunity.
520 CD-ROM contains: Video clips -- Animations -- Molecular structures -- High-resolution micrographs.
508 CD: artistic and scientific direction, Peter Walter ; production design and development, Michael Morales.
511 0 CD narrated by: Julie Theriot.
650 0 Cytology.
650 0 Molecular biology.
650 0 Cells.
650 12 Cells $0 (DNLM)D002477
650 22 Molecular Biology $0 (DNLM)D008967

650 2 Cell Biology $0 (DNLM)D003585
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650 7 molecular biology. $2 aat $0 (CStmoGRI)aat300054470
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650 17 Celbiologie. $2 gtt
650 17 Moleculaire biologie. $2 gtt
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650 7 Citologia. $2 larpcal
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650 07 Zelle. $2 swd
655 0 CD-ROMs.
700 1 Johnson, Alexander, $e author.
700 1 Lewis, Julian, $e author.
700 1 Raff, Martin, $e author.
700 1 Roberts, Keith, $e author.
700 1 Walter, Peter, $e author.
856 41 $3 Table of contents $u http://bvbr.bib-bvb.de:8991/F?func=service&doc_library=BVB01&doc_number=009653135&line_number=0001&func_code=DB_RECORDS&service_type=MEDIA
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856 42 $3 Publisher description $u http://catdir.loc.gov/catdir/enhancements/fy0652/2001054471-d.html
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856 4 $3 Volltext $u http://www.ncbi.nlm.nih.gov/books/NBK21054/ $x Verlag $z kostenfrei
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856 4 $u http://www.ncbi.nlm.nih.gov/books/bv.fcgi?rid=mboc4 $z About this book
856 4 $u http://www.ncbi.nlm.nih.gov/books/bv.fcgi?call=bv.View..ShowTOC&rid=mboc4.TOC&depth=2 $z Connect to Internet resource

ATTACHMENT 31c

LIBRARY OF CONGRESS AUTHORITIES

LC control no.: sh 85035240

LCCN Permalink: https://lccn.loc.gov/sh85035240

HEADING: Cytology

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001 4687378

005 20201209060007.0

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360 __ |**i** subdivision |**a** Cytology |**i** under names of animals and plants, and under organs and regions of the body, e.g. |**a** Fishes--Cytology; Corn--Cytology; Heart--Cytology; Foot--Cytology

450 __ |**a** Cell biology

450 __ |**a** Cellular biology

550 __ |**w** g |**a** Biology

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910 __ |**a** Record saved by jr02 on 11/12/2020 at 08:19:49

953 __ |**a** xx00

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ATTACHMENT 31d

LIBRARY OF CONGRESS AUTHORITIES

LC control no.: sh 85021678

LCCN Permalink: https://lccn.loc.gov/sh85021678

HEADING: Cells

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053 _0 |**a** QH573 |**b** QH671
150 __ |**a** Cells
550 __ |**w** g |**a** Organisms
550 __ |**a** Cytology
670 __ |**a** Penguin dict. of biol. |**b** (cell: mass of protoplasm made discrete by an enveloping plasma membrane.)
670 __ |**a** Oxford dict. of biol. |**b** (cell: the structural and functional unit of most living organisms)
906 __ |**t** 0635 |**u** te04 |**v** 0
953 __ |**a** xx00 |**b** ta25



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ATTACHMENT 32a

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100    1#$aFreeman, Scott, $d1955-
245    10$aBiological science / $cScott Freeman ; contributors,
Healy Hamilton [and others].
250    ##$a2nd ed.
260    ##$aUpper Saddle River, N.J. : $bPearson Prentice Hall,
$c©2005.
300    ##$axxx, 1283 pages : $bcolor illustrations, color maps ;
$c29 cm + $e1 computer optical disc (4 3/4 in.)
336    ##$atext $btxt $2rdacontent
337    ##$aunmediated $bn $2rdamedia
338    ##$avolume $bnc $2rdacarrier
500    ##$aIncludes index.
505    0#$aThe origin and early evolution of life -- Cell structure
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973    ##$apbooks
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ATTACHMENT 32b

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Books

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084 BIO 100f $2 stub
090 $b
100 1 Freeman, Scott, $d 1955-
245 10 Biological science / $c Scott Freeman ; contributors, Healy Hamilton [and others].
250 2nd ed.
260 Upper Saddle River, N.J. : $b Pearson Prentice Hall, $c ©2005.
300 xxx, 1283 pages : $b color illustrations, color maps ; $c 29 cm + $e 1 computer optical disc (4 3/4 in.)
336 text $b txt $2 rdacontent
337 unmediated $b n $2 rdamedia
338 volume $b nc $2 rdacarrier
500 Includes index.
505 0 The origin and early evolution of life -- Cell structure and function -- Gene structure and expression -- Developmental biology -- Evolutionary processes and patterns -- The diversification of life -- How plants work -- How animals work -- Ecology.
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655 4 Lehrbuch.
655 7 Lehrbuch. $2 swd
700 1 Hamilton, Healy.
856 41 $3 Table of contents $u http://catdir.loc.gov/catdir/toc/ecip053/2004027312.html

ATTACHMENT 32c

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

LC control no.: sh 85014203
LCCN Permalink: https://lccn.loc.gov/sh85014203
HEADING: Biology

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Search Request: Left Anchored Title = Biological Science
Search Results: Displaying 2 of 344 entries

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Biological science.

Type of Work: Text
Registration Number / Date: TX0006086750 / 2005-04-11
Title: Biological science.
Edition: 2nd ed.
Notes: Cataloged from appl. only.
Copyright Claimant: Pearson Education, Inc.
Date of Creation: 2004
Date of Publication: 2004-12-28
Authorship on Application: additions & revisions (exluding content on CD-ROM): Scott Freeman.
Previous Registration: Prev. reg. 2002, TX 5-487-117.
Basis of Claim: New Matter: revisions & additions.
Names: Freeman, Scott
Pearson Education, Inc.

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ATTACHMENT 33a

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310    ##$aMonthly
362    0#$aVol. 1, no. 1 (Mar. 1967)-
500    ##$aPublisher varies: 1999- , Blackwell Science
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500    ##$aTitle from cover.
510    1#$aIndex medicus $x0019-3879
510    2#$aBibliography of agriculture $x0006-1530
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936    ##$aVol. 1, no. 4 (June 1967) LIC
948    ##$aLTI 09/01/2008
948    ##$aLTI 07/14/2010
948    ##$aLTI 10/19/2010
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ATTACHMENT 33b

OCLC 1568454 **No holdings in XXX - 493 other holdings**

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222 0 European journal of biochemistry $b (Print)
245 00 European journal of biochemistry / $c FEBS.
246 1 $i Issues for 1999-2004 have title: $a EJB
264 1 $3 1967-1998: $a Berlin ; $a New York : $b Published by Springer-Verlag on behalf of the Federation of European Biochemical Societies, $c 1967-2004.
264 21 $3 1999-2001: $a Oxford, UK : $b Blackwell Science on behalf of the Federation of European Biochemical Societies
264 31 $3 2002-2004: $a Oxford, UK : $b Blackwell Pub.
300 271 volumes : $b illustrations (some color) ; $c 28 cm
310 Twice monthly, $b <1990-2004
321 Monthly, $b Mar. 1967-
336 text $b txt $2 rdacontent

337 unmediated $b n $2 rdamedia
338 volume $b nc $2 rdacarrier
362 0 Vol. 1, no. 1 (Mar. 1967)-v. 271, no. 23/24 (Dec. 2004).
500 Title from cover.
510 2 Chemical abstracts $x 0009-2258
515 Some issues combined.
530 Also issued on microfilm and microfiche by University Microfilms International, on CD-ROM, and online.
546 Articles in English, French, and German; summaries in English.
650 0 Biochemistry $v Periodicals.
650 6 Biochimie $v Périodiques.
650 7 35.70 biochemistry: general. $0 (NL-LeOCL)077596110 $2 bcl
650 7 Biochemistry. $2 fast $0 (OCoLC)fst00831961
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650 17 Biochimie. $2 rasuqam
650 2 Biochemistry. $0 (DNLM)D001671
655 4 Computer network resources.
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655 7 Périodique électronique (Descripteur de forme) $2 rasuqam
655 7 Ressource Internet (Descripteur de forme) $2 rasuqam
655 7 Periodicals. $2 rbgenr
655 2 Periodical. $0 (DNLM)D020492
710 2 Federation of European Biochemical Societies.
776 08 $i CD-ROM version: $t European journal of biochemistry (CD-ROM) $x 0945-5795
776 08 $i Microfiche version: $t European journal of biochemistry (Microfiche, UM) $w (OCoLC)26796781
776 08 $i Microfilm version: $t European journal of biochemistry (Microfilm, UMI) $w (OCoLC)20327120
776 08 $i Online version: $t European journal of biochemistry (Online) $x 1432-1033 $w (DLC) 2004233671 $w (OCoLC)47669501
780 00 $t Biochemische Zeitschrift $x 0366-0753 $w (DLC) 11004361 $w (OCoLC)1536395
785 00 $t FEBS journal $x 1742-464X $w (DLC) 2004243956 $w (OCoLC)57352964
850 DLC $a DNAL $a GU $a IaAS $a MBCo $a MCM $a MnU $a NCH $a ViblbV
856 41 $3 Wiley Online Library $u http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1742-4658 $z On website of later title: FEBS journal.
856 4 $u http://www.blackwell-synergy.com/servlet/useragent?func=showIssues&code=ejb $z This former electronic address redirects to current address when searched on May 1, 2015.
856 4 $u http://www.ejbiochem.org/ $z This former electronic address redirects to current address when searched on May 1, 2015.
856 4 $u http://link.springer.de/link/service/journals/00225/index.htm $z This electronic address no longer valid as of May 1, 2015.
856 4 $u http://firstsearch.oclc.org $z Address for accessing the journal using authorization number and password through OCLC FirstSearch Electronic Collections Online. Subscription to online journal required for access to abstracts and full text
856 4 $u http://firstsearch.oclc.org/journal=0014-2956;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

ATTACHMENT 34a

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037    ##$bAcademic Press, 111 Fifth Ave., New York, NY 10003
037    ##$c$1250.00
040    ##$aDLC $cDLC $dNSD $dCWR $dOCL $dDLC $dOCL $dSER $dOCL $dRCS
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222    #0$aJournal of molecular biology
245    00$aJournal of molecular biology.
246    00$aJMB
260    ##$aLondon, $aNew York, $bAcademic Press.
300    ##$av. $bill., diagrs. $c26 cm.
310    ##$aWeekly, $b1994-
321    ##$aThree times a month, $b<Jan. 6, 1976->
321    ##$a2 times a month, $b<20 Jan. 1985-Dec. 1993>
362    0#$av. 1- Apr. 1959-
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510    2#$aBiological abstracts $x0006-3169
510    2#$aChemical abstracts $x0009-2258
510    2#$aEnergy information abstracts $x0147-6521
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530    ##$aAlso available online.
650    #0$aBiology $vPeriodicals
650    #0$aBiochemistry $vPeriodicals
650    #0$aMolecular biology $vPeriodicals
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948    ##$aLTI 09/01/2008
948    ##$aLTI 02/03/2010
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ATTACHMENT 34b

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

LC control no.: sh2007101986
LCCN Permalink: https://lccn.loc.gov/sh2007101986
HEADING: Biology Periodicals

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150 __ |**a** Biology |**v** Periodicals
667 __ |**a** Record generated for validation purposes.
670 __ |**a** Work cat.: TIP,
906 __ |**t** 8888 |**u** te00 |**v** 0
953 __ |**a** te00

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ATTACHMENT 34c

LIBRARY OF CONGRESS AUTHORITIES

LC control no.: sh2008107896

LCCN Permalink: https://lccn.loc.gov/sh2008107896

HEADING: Molecular biology Periodicals

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906 __ |**t** 8888 |**u** te00 |**v** 0
953 __ |**a** te00

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ATTACHMENT 34d

OCLC 1782923 **No holdings in XXX - 780 other holdings**

Continuing Resources

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Desc		**SrTp**	p	**Cont**		**DtSt**	c	**Dates**	1959	,	9999		

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032 281280 $b USPS
042 pcc $a nsdp
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060 00 W1 $b JO773
060 00 Film S02695
070 0 442.8 $b J8224
072 0 X300
082 04 574.8/8/05
090 $b
210 0 J. mol. biol.
222 0 Journal of molecular biology
245 00 Journal of molecular biology.
246 13 JMB $f <14 Jan. 2005-
260 London : $b Academic Press Ltd., $c [1959]-
260 3 $3 <Feb. 2002-; $a Amsterdam $b Elsevier
300 volumes $b illustrations $c 26 cm
310 Twenty-four no. a year, $b 2013-
321 6 times a year, $b 1959-1960
321 12 numbers a year, $b 1961-
321 Three times a month, $b <Jan. 6, 1976-

321 2 times a month, $b <20 Jan. 1985-Dec. 1993
321 Weekly, $b 1994-2012
336 text $b txt $2 rdacontent
337 unmediated $b n $2 rdamedia
338 volume $b nc $2 rdacarrier
362 0 Volume 1, number 1 (April 1959)-
510 2 Chemical abstracts $x 0009-2258
588 0 Volume 1, number 1 (April 1959); title from cover
588 Latest issue consulted: V. 425, issue 20 (Oct. 23, 2013).
650 0 Biology $v Periodicals.
650 0 Biochemistry $v Periodicals.
650 0 Molecular biology $v Periodicals.
650 0 Bacteriology.
650 0 Biochemistry.
650 0 Biology.
650 12 Bacteriology $0 (DNLM)D001432
650 22 Biochemistry $0 (DNLM)D001671
650 22 Biology $0 (DNLM)D001695
650 6 Biologie $0 (CaQQLa)201-0000137 $v Périodiques. $0 (CaQQLa)201-0378307
650 6 Biochimie $0 (CaQQLa)201-0001077 $v Périodiques. $0 (CaQQLa)201-0378307
650 6 Biologie moléculaire $0 (CaQQLa)201-0064024 $v Périodiques. $0 (CaQQLa)201-0378307
650 6 Bactériologie. $0 (CaQQLa)201-0004319
650 6 Biochimie. $0 (CaQQLa)201-0001077
650 6 Biologie. $0 (CaQQLa)201-0000137
650 7 biochemistry. $2 aat $0 (CStmoGRI)aat300054538
650 7 biology. $2 aat $0 (CStmoGRI)aat300054466
650 7 42.13 molecular biology. $0 (NL-LeOCL)077603028 $2 bcl
650 7 Bacteriology. $2 fast $0 (OCoLC)fst00825257
650 7 Biochemistry. $2 fast $0 (OCoLC)fst00831961
650 7 Biology. $2 fast $0 (OCoLC)fst00832383
650 7 Molecular biology. $2 fast $0 (OCoLC)fst01024734
650 17 Moleculaire biologie. $2 gtt
655 0 Electronic journals $x Biology.
655 2 Periodical $0 (DNLM)D020492
655 7 Periodicals. $2 fast $0 (OCoLC)fst01411641
655 7 Electronic journals. $2 lcgft
776 08 $i Online version: $t Journal of molecular biology (Online) $x 1089-8638 $w (DLC)sn 96047032
$w (OCoLC)34479722
850 DLC $a DNAL $a InU $a NCH $a PU

ATTACHMENT 34e

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

LC control no.: sh 85010864

LCCN Permalink: https://lccn.loc.gov/sh85010864

HEADING: Bacteriology

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005 20120321074140.0

008 860211i| anannbabn |a ana

010 __ |**a** sh 85010864

035 __ |**a** (DLC)sh 85010864

035 __ |**a** (DLC)10468

040 __ |**a** DLC |**c** DLC |**d** DLC

053 _0 |**a** QR

150 __ |**a** Bacteriology

360 __ |**i** subdivision |**a** Microbiology |**i** under individual animals and groups of animals, individual plants and groups of plants, individual diseases and types of diseases, individual organs and regions of the body, and individual materials and types of materials, e.g. |**a** Fishes--Microbiology; Corn--Microbiology; Tuberculosis--Microbiology; Heart--Microbiology; Metals--Microbiology

550 __ |**w** g |**a** Microbiology

680 __ |**i** Here are entered works on the science of studying bacteria. Works on bacteria are entered under |**a** Bacteria.

681 __ |**i** Note under |**a** Bacteria

906 __ |**t** 9351 |**u** te05 |**v** 0

953 __ |**a** xx00 |**b** td14

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ATTACHMENT 34f

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

LC control no.: sh 85014171

LCCN Permalink: https://lccn.loc.gov/sh85014171

HEADING: Biochemistry

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001 4666952

005 20201020060008.0

008 860211i| anannbabn |a ana

010 __ |**a** sh 85014171

035 __ |**a** (DLC)sh 85014171

035 __ |**a** (DLC)13637

040 __ |**a** DLC |**c** DLC |**d** DLC |**d** WaU

053 _0 |**a** QD415 |**b** QD436 |**c** Chemistry

053 _0 |**a** QH345 |**c** Biology

053 _0 |**a** QP501 |**b** QP801 |**c** Physiology

150 __ |**a** Biochemistry

360 __ |**i** subdivision |**a** Composition |**i** under individual animals and groups of animals, e.g. |**a** Fishes--Composition; Cattle--Composition

450 __ |**w** nne |**a** Biological chemistry

450 __ |**a** Chemical composition of organisms

450 __ |**a** Organisms |**x** Composition

450 __ |**w** nne |**a** Physiological chemistry

550 __ |**w** g |**a** Biology

550 __ |**w** g |**a** Chemistry

550 __ |**w** g |**a** Medical sciences

670 __ |**a** MeSH browser, July 29, 2020 |**b** (Biochemistry. SN The study of the composition, chemical structures, and chemical reactions of living things. In MeSH Tree Structures under Biological Science Disciplines and under Chemistry)

670 __ |**a** Web. 3.

670 __ |**a** Hennepin.

670 __ |**a** McGraw-Hill dict. of sci. and tech. terms, c2003 |**b** (biochemistry [CHEM] The study of chemical substances occurring in living organisms and the reactions and methods for identifying these substances)

670 __ |**a** Tröjbom, M. Chemistry data from surface ecosystems in Forsmark and Laxemar-Simpevarp, 2010: |**b** p. 3 ("chemical composition of the regolith and biota of the terrestrial, limnic, and marine ecosystems")

670 __ |**a** Biology dictionary, via WWW, July 29, 2020 |**b** (Chemical Biology: a scientific discipline that combines chemistry and biology by using chemistry and chemical techniques to study biological systems. The main difference between chemical biology and biochemistry is that chemical biology involves adding novel chemical compounds to a biological system, while biochemistry is the study of chemical reactions that naturally happen inside organisms. Examples of chemical biology research include controlling cell division and other cell activities, using small molecules as targets for treatment, and manipulating stem cells. Differences between chemical biology and biochemistry: Chemical biology adds chemical compounds to biological systems in order to see what effect these chemicals have on cells and tissues. Chemical biologists often synthesize and add new compounds to cells. The goal of chemical biology research is to develop techniques that can eventually be applied to cells in a living organism, such as treatment options for cancer and other diseases. Biochemistry, on the other hand, is all about the chemical processes that already occur naturally in the cell. Instead of adding chemical compounds to cells to see the effects, biochemistry researchers study the chemical reactions that occur in organisms and the molecular makeup of these compounds. Biochemists also tend to study larger molecules like proteins and nucleic acids, while chemical biologists study smaller molecules) |**u** https://biologydictionary.net/chemical-biology/

680 __ |**i** Here are entered works on the study of naturally occurring chemical reactions in organisms. Works on the use of chemistry and chemical techniques to study biological systems are entered under |**a** Chemical biology.

681 __ |**i** Note under |**a** Chemical biology

910 __ |**a** Proposal saved by tc03 on 07/31/2020 at 10:12:44

952 __ |**a** Made for existing bibliographic records

952 __ |**a** LC pattern: Biophysics

906 __ |**t** 1125 |**v** 0

906 __ |**t** 2009 |**v** 0

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ATTACHMENT 34g

Case No.: IPR2023-00321
U.S. Patent No. 10,689,656

LC control no.: sh 85014203
LCCN Permalink: https://lccn.loc.gov/sh85014203
HEADING: Biology

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005 20211124060011.0
008 860211i| anannbabn |b ana |
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035 __ |**a** (DLC)13669
040 __ |**a** DLC |**c** DLC |**d** DLC
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150 __ |**a** Biology
360 __ |**i** headings beginning with the word |**a** Biological
550 __ |**w** g |**a** Life sciences
550 __ |**a** Life (Biology)
550 __ |**a** Natural history
906 __ |**t** 9037 |**u** fk07 |**v** 0
910 __ |**a** Proposal saved by js06 on 10/18/2021 at 15:00:34
952 __ |**a** 550 (Evolution) deletion prompted by TxU
953 __ |**a** xx00 |**b** fh12
906 __ |**t** 2110 |**v** 0

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ATTACHMENT 35a

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246    2#$0Nucl Acids Res $9n
246    2#$aNAR
260    ##$aLondon, $bInformation Retrieval ltd.
260    3#$31992- : $aOxford : $bOxford University Press
300    ##$av. $billus.
310    ##$aTwenty four no. a year
321    ##$aTwenty four no. a year $b19??-1992
321    ##$aTwenty five no. a year $b1993-1994
336    ##$atext $btxt $2rdacontent
337    ##$aunmediated $bn $2rdamedia
338    ##$avolume $bnc $2rdacarrier
362    0#$av. 1-       Jan. 1974-
500    ##$aHas supplement: Nucleotide sequences.
500    ##$aPlace of publication varies.
506    ##$aOnline version requires subscription to access full text
of articles. However, visitors can browse but will not be able to
access all features.
510    1#$91 $aMEDLINE $bv1n1, Jan. 1974-
510    0#$91 $aPubMed $bv1n1, Jan. 1974-
510    0#$aPMC
510    1#$aIndex medicus
516    ##$aOnline full text articles available in FTP postscript
files, or PDF and HTML files.
525    ##$aSupplement accompanies some volumes.
530    ##$aAlso available in CD-ROM and on the World Wide Web.
580    ##$aComplemented by: NAR cancer.
583    ##$3(1989) $c19890911 $fNotice published $lPrinted on acid-
free paper
650    #2$aNucleic Acids
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655    #2$aPeriodical
770    0#$tNucleotide sequences $x0952-3472 $w(OCoLC)11589614
$w(DNLM)8703816
770    0#$tNucleic acids symposium series $x0261-3166 $w(DLC)sf
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856    4#$uhttps://www.ncbi.nlm.nih.gov/pmc/journals/4/
911    ##$aElectronic and print, print canceled 2017
914    ##$aPortico $bCurrent to 2022 as of 20220118 $cISSN_03051048
935    ##$a(DNLM)125523-nlmdb
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035    ##$a(OCoLC)01791693
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ATTACHMENT 35b

Nucleic Acids MeSH Descriptor Data 2023

Details | Qualifiers | MeSH Tree Structures | Concepts

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Tree Number(s)
D13.444
Unique ID
D009696
RDF Unique Identifier
http://id.nlm.nih.gov/mesh/D009696
Annotation
general or unspecified; prefer RNA or DNA and specifics
Scope Note
High molecular weight polymers containing a mixture of purine and pyrimidine nucleotides chained together by ribose or deoxyribose linkages.
Entry Term(s)
Nucleic Acid
Registry Number
0
Date Established
1966/01/01
Date of Entry
1999/01/01
Revision Date
2020/05/27

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HHS Vulnerability Disclosure

NLM Support Center
Accessibility
Careers

NLM | NIH | HHS | USA.gov

ATTACHMENT 35c

OCLC 1791693 **No holdings in XXX - 486 other holdings**

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260 London, $a Washington, $b Information Retrieval Ltd.
264 31 $3 <2014- : $a Oxford, UK : $b Oxford University Press
300 volumes $c 23 cm
310 Semimonthly, $b May 1979-
321 Monthly, $b Jan. 1974-Apr. 1979
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362 0 v. 1- Jan. 1974-
510 2 Chemical abstracts $x 0009-2258
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515 Beginning in <1993 each volume contains an unumbered issue called the Database issue. Starting in 2003 each volume also has an unumbered issue called Web Server issue. Beginning in <2004 these issues begin carrying the volume number.
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