

BIOTECHNOLOGY: AN INTERNATIONAL BIBLIOGRAPHY†

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† Compiled by the staff of the *Houston Journal of International Law* with the assistance of Margaret A. Aycock, Foreign and International Law Librarian, University of Houston Law Library.

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I. INTRODUCTION

"Biotechnology" is defined as "any technique that is used to make or modify the products of living organisms in order to improve plants or animals or to develop useful microorganisms."¹ Biotechnology has been practiced for centuries using yeast and bacteria in the making of certain foods, such as wine, bread, and cheese. Today, biotechnology includes unique or specifically useful organisms developed through cell and tissue culture, cell fusion, molecular biology, and recombinant deoxyribonucleic acid (DNA) technology.

Biotechnology is important for many areas of scientific research including genetics, microbiology, immunology, agriculture, plant science, food science, medicine, and environmental sciences. Recent medical applications include the production of human interferon to fight viruses, human growth hormones, human insulin, and the development of a vaccine against hepatitis B. Biotechnology has also created a new bacteria that can digest oil slicks.²

Since the 1980 U.S. Supreme Court decision, *Diamond v. Chakrabarty*,³ holding that a live human-made microorganism (the oil digesting bacteria) was patentable matter, biotechnology has been of increasing commercial interest for private industry in the United States. Similar developments have taken place abroad.

Biotechnology's boundaries are vague. It encompasses many techniques and is important for many scientific fields. Consequently, the relevant literature is vast. Over the past decade many public policy and legal issues concerning biotechnology have arisen. New, unforeseen questions will continue to develop. It is hoped that this selective and non-technical bibliography will be of use to lawyers, policy makers, scientists, engineers, and others who find themselves researching foreign and international biotechnology issues.

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G. Computer-Assisted Research⁴

1. Academic Discussion Lists

BIO-JRNL.

Bitnet: LISTSERV@IRLEARN

Internet: LISTSERV@IRLEARN.UCD.IE

Postings of biological journal tables of contents.

BIO-NAUT.

Bitnet/Earn: LISTSERV@IRLEARN

Internet: LISTSERV@IRLEARN.UCD.IE

Directory of biologists online.

BIOMED-L.

Bitnet: LISTSERV@NDSUVM1

Internet: LISTSERV@VM1.NODAK.EDU

Biomedical ethics.

BIONEWS.

Bitnet/Earn: LISTSERV@IRLEARN

Internet: LISTSERV@IRLEARN.UCD.IE

BioNews Bulletin Board.

BIOTECH.

Bitnet: BIOSERV@UMDC

Internet: BIOSERV@UMDC.UMD.EDU

Biotechnology e-Conference.

MEDLIB-L.

Bitnet: LISTSERV@UBVM

4. For an overview of networking conventions and a detailed summary of biological resources available on-line, see Una R. Smith; *A Biologist's Guide to Internet Resources*, updated monthly and available via Usenet, gopher, anonymous FTP, and e-mail. In Usenet, look in "sci.bio" or "sci.answers." In gophers with biology topics, look under "Ecology and Evolution." Anonymous FTP to "sunsite.unc.edu" where the guide is stored as "pub/academic/biology/ecology+evolution/FAQ." Send e-mail to "mail-server@rtfm.mit.edu" with "send usenet/news.answers/biology/guide/*."

Internet: LISTSERV@UBVM.CC.BUFFALO.EDU

Official e-Conference for the Medical School Libraries
Section of the Medical Library Association.

Patent Titles Mailing List.

Internet: PATENTS-REQUEST@WORLD.STD.COM

This is a free mailing service of all of the patents listed in the most recent issue of the USPTO Patent Gazette. For each patent, the patent title and number are listed. Specify MECHANICAL, CHEMICAL, and/or ELECTRONIC, and the words ASCII or UNZIP. Future plans are to include brief descriptions of British and Japanese patents.

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Biobusiness. 1985-. Philadelphia: BIOSIS. Covers economic aspects of biotechnology from more than 500 journal, books, and other publications. Available through DIALOG File 285 and Westlaw Database BIOBUS.

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CELEX: The Legal Database of the European Communities. 1954-. Varies by EC institution. Covers EC treaties and agreements, regulations, directives, decisions, COM documents, EP working documents, ECOSOC opinions, ECJ cases, and EP questions. Available through LEXIS, INTLAW Library, ECLAW File; Westlaw Databases CELEX-CS, CELEX-LEG, CELEX-NP, CELEX-PQ, and CELEX-PREP; and the Commission of the European Communities.

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Japio-patent Abstracts of Japan. 1976-. Tokyo: Japanese Patent Information Organization. Patents represent all technologies. The file is equivalent to the print publication, *Patent Abstracts*

of Japan. Available through DIALOG File 347 and Westlaw Database JAPIO (not carried by law school subscribers).

Medline. 1966-. Bethesda, Md.: U.S. National Library of Medicine. Corresponds to three printed indexes: Index Medicus, Index to Dental Literature, and International Nursing Index. Covers over 3,700 journals from the United States and 70 other countries. Available through DIALOG Files 152-55; LEXIS/NEXIS MEDLINE Library; and Westlaw Databases MEDLINE, MEDLINE 66, MEDLINE 75, and MEDLINE 85.

NCBI Databases. Current. Bethesda, Md.: National Center for Biotechnology Information. NCBI maintains voluminous FTP archives and software tools for biotechnology. Databases include, among others, Transcription Factors, Normalized Gene Designations, Eukaryotic Promoters, REBASE, SWISS-PROT, and Enzyme Data Bank. The Center coordinates efforts to gather biotechnology information worldwide. Available via FTP host: ncbi.nlm.nih.gov; Directory: repository; Files: many or all.

SCAD (Système Communautaire Accès à la Documentation). Current. Brussels: Commission of the European Communities. Contains legislation and preparatory acts from the Official Journal, COM final documents, EP working papers, ECOSOC opinions, and bibliographic records of publications distributed or published by the EC Office for Official Publications. Also includes citations and abstracts from 1500 periodicals in 12 languages from all over the world. Available from the Commission of the European Communities and Ellis Publications, Maastricht, The Netherlands.

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III. SERIALS

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