

# Resources for DNA, Genetics and Related Topics

The New York Public Library  
Science, Industry, and Business Library  
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## PRINT RESOURCES

The following are selected lists of books from the Science, Industry and Business Library's (SIBL) **Circulating Collection** (street level) and **Research Collection** (lower level). The lists include title/author information; call numbers are preceded by ">". To find publisher information, check the NYPL's Branch Libraries catalog **LEO** and Research Libraries catalog **CATNYP**, available on the Web at: <http://www.nypl.org/books/>

### Circulating Collection: See LEO catalog

#### PEAS, PHAGE, THE FLY ROOM, JUMPING GENES & OTHER TALES IN DNA HISTORY

- The century of the gene / Evelyn Fox Keller. c2000. > 576.5 K
- The eighth day of creation / Horace F. Judson. c1979. > 574.8732 J
- The path to the double helix / Robert C. Olby. c1974. > 574.8732 O
- Classic papers in genetics / James Arthur Peters. c1959. > 575.108 P
- The book of man; the Human Genome Project and the quest to discover our genetic heritage / W.F. Bodmer and Robin McKie. 1997, c1994. > 599.935 B

#### "TELL EVERYONE. . . WE HAD FOUND THE SECRET OF LIFE" -- MEN & WOMEN OF DNA

Dates refer to important events in each of the scientists' research and are intended as a relative timeline.

- 1859** The origin of species by means of natural selection; or, The preservation of favored races in the struggle for life and The descent of man and selection in relation to sex / Charles Darwin. [1936]. > 575.5 D
- 1865** The monk in the garden: the lost and found genius of Gregor Mendel, the father of genetics / Robin Marantz Henig. c2000. > B Mendel H
- 1911** Thomas Hunt Morgan, pioneer of genetics / Ian Shine and Sylvia Wrobel. c1976. > B Morgan S
- 1943** What is life?: the physical aspect of the living cell / Erwin Schrödinger. c1992. > JSD 99-80(Research Coll.)
- 1944** The transforming principle / Maclyn McCarty. c1985. > 574.8732 M
- 1946** Thinking about science : Max Delbruck and the origins of molecular biology / Ernst Peter Fischer and Carol Lipson. c1988. > B Delbruck F
- 1946** A feeling for the organism: the life and work of Barbara McClintock / Evelyn Fox Keller. c1983. > B McClintock K
- 1951** Rosalind Franklin and DNA / Anne Sayre. c1975. > B Franklin S
- 1953** The double helix / James D. Watson. c1980. > 574.8732 W
- 1954** What mad pursuit: a personal view of scientific discovery / Francis Crick. c1988. > 574.191 C
- 1967** For the love of enzymes: the odyssey of a biochemist / Arthur Kornberg. c1989. > B Kornberg

#### CLONES, TRANSGENIC ORGANISMS, DNA FINGERPRINTING & GENE THERAPY

- Biotechnology unzipped: promises & realities / Eric S. Grace. c1997. > 660.6 G
- The New York Times book of genetics / Nicholas Wade, ed. Rev. & exp. c2002. > 576.5 N
- Abraham Lincoln's DNA and other adventures in genetics / Philip R. Reilly. c2000. > 599.935 R
- The impact of the gene / Colin Tudge. 2001, c2000. > 576.5 T
- Understanding the genome / eds. of Scientific American. c2002. > 611.0181 U
- Unnatural selection / Lois Wingerson. c1998. > 599.935 W

#### GENETIC MARKERS: TRACING OUR PAST/ TRANSFORMING OUR FUTURE?

- The great human diasporas: a history of diversity and evolution / Luigi Luca Cavalli-Sforza and Francesco Cavalli-Sforza. c1995. > 573.2 C
- Genome: the autobiography of a species in 23 chapters / Matt Ridley. 2000, c1999. > 599.935 R
- Human molecular genetics 2 / Tom Strachan and Andrew P. Read. 2<sup>nd</sup> ed. c1999. > 611.0181 S
- The shattered self: the end of natural evolution / Pierre Baldi. c2001. > 599.93 B
- Our posthuman future: consequences of the biotechnology revolution / Francis Fukuyama. c2002. > 303.4 F
- Signs of life: the language and meanings of DNA / Robert Pollack. c1994. > 575.1 P

- Improving nature?: the science and ethics of genetic engineering / Michael J. Reiss and Roger Straughan. c1996. ➤ 174.9574 W
- Redesigning humans: our inevitable genetic future / Gregory Stock. c2002. ➤ 176 S

## Research Collection: See CATNYP catalog

### ENCYCLOPEDIAS & DICTIONARIES

- Encyclopedia of ethical, legal, and policy issues in biotechnology / Thomas H. Murray and Maxwell J. Mehlman, eds. c2000. ➤\*R-SIBL TP248.16 .E539
- Encyclopedia of genetics / Sydney Brenner and Jeffrey H. Miller, eds. 4 vols. 2002. ➤\*R-SIBL QH427.E53
- Encyclopedia of molecular biology and molecular medicine / Robert A. Meyers, ed. 1996  
➤\*R-SIBL QH506 .E534
- Oxford dictionary of biochemistry and molecular biology / A.D. Smith et al., eds. 2000.  
➤\*R-SIBL QP512 .O98

### HANDBOOKS & MONOGRAPHS

- Genes VII / Benjamin Lewin. 2000. ➤\*R-SIBL QH430 .L487
- Genomics: the science and technology behind the Human Genome Project / Charles R. Cantor and Cassandra L. Smith. c1999. ➤\*R-SIBL QP624 .C36
- Handbook of statistical genetics / D.J. Balding, M. Bishop and C. Cannings, eds. c2001.  
➤\*R-SIBL QH438.4 .S73 .H36
- Molecular biology of the gene / James D. Watson ... [et al.]. 4<sup>th</sup> ed. c1987. ➤\*R-SIBL QH447 .M65
- Molecular cloning: a laboratory manual / Joseph Sambrook and David W. Russell. 3<sup>rd</sup> ed. 3 vols. c2001  
➤JSF 02-852

### DIRECTORIES

- GEN database of biotechnology companies and resources. c2002-. ➤\*R-SIBL TP248.17.G46

## ONLINE FULL-TEXT SOURCES

The following databases provide the entire text of printed sources in electronic format and are accessible in the Electronic Information Center (EIC) on the lower level of SIBL.

- **AccessScience**  
Encyclopedia. Contains 7,000+ articles from *McGraw-Hill Encyclopedia of Science & Technology*, 115,000+ definitions from the *Dictionary of Scientific & Technical terms*, and over 1000 biographies of scientists. Has articles in the biological sciences which include biochemistry, molecular biology, and genetics.
- **Scientific American Archive Online**  
Articles. Contains the editorial contents of Scientific American Magazine, from 1993 to the present. Issues are in PDF format. Search in the full-text, or by title or author, or browse issues by date. Updated: Monthly.
- **Genes and Development**  
Research journal, covering the areas of molecular biology, molecular genetics and related fields.

## SEARCH TERMS

To find more books and other media on DNA related topics, try using the following for *subject* and *keyword* searches in the Research Libraries' CATNYP catalog and the Branch Libraries' LEO catalog:

- |                         |                       |                         |
|-------------------------|-----------------------|-------------------------|
| • BIOETHICS             | • GENE MAPPING        | • HUMAN GENOME          |
| • BIOTECHNOLOGY         | • GENE THERAPY        | • MEDICAL GENETICS      |
| • CLONING               | • GENETIC ENGINEERING | • MOLECULAR BIOLOGY     |
| • DNA                   | • GENETICS            | • MOLECULAR CLONING     |
| • DNA FINGERPRINTING    | • HEREDITY            | • MOLECULAR GENETICS    |
| • EVOLUTION (BIOLOGY)   | • HEREDITY, HUMAN     | • PROTEINS              |
| • EVOLUTIONARY GENETICS | • HUMAN EVOLUTION     | • RNA                   |
| • FORENSIC GENETICS     | • HUMAN CLONING       | • X-RAY CRYSTALLOGRAPHY |
|                         | • HUMAN GENETICS      |                         |

# INDEXES AND ABSTRACTS TO ARTICLES

## Electronic Resources

The following is a list of index/abstract databases, some with full-text included, which will help with identifying journal articles on DNA/genetics related topics. These databases can be accessed in the Electronic Information Center (EIC) on the lower level of SIBL. Databases with an \* can also be accessed from home by members of NYPL via the branch libraries; go to: <http://www.nypl.org/databases/index.cfm?act=2&j=home>

- **Applied Science and Technology Abstracts (Print & Electronic)**  
Locate citations and abstracts to articles in 390 of the key English language periodicals in applied sciences, including biotechnology. 1983 - Present. Updated: Monthly. Print copy is available on the lower level. Call No. \*R-SIBL Z7913.I7.
- **Biology Digest**  
Articles. Citation and Abstract Database. Covers all aspects of life sciences and the latest research in biology aimed primarily at an undergraduate/secondary academic level. 1989 - present. Updated: Monthly.
- **General Science Abstracts**  
Locate abstracts to articles in periodicals covering the sciences, including biology. 1984 - Present. Updated: Monthly.
- **EBSCO \***  
Gateway to several databases that have periodical references and book review references to genetics and DNA:
  - **Academic Search Premier \***  
Provides full text for 3,350 scholarly publications covering academic areas of study in the sciences including medicine and health.
  - **Health Source: Consumer Edition \***  
Features searchable full text for nearly 300 journals and 1200 pamphlets on consumer health. 1985-Present.
  - **Health Source: Nursing/Academic Edition \***  
Full-text articles and index database. Provides nearly 600 scholarly full text journals focusing on many medical disciplines. 1975 - Present.
- **Health Reference Center Academic \***  
Full Text and Abstract Database. Health related academic journal and newspaper articles including multiple topics related to genetics and DNA. 1980 - Present. Updated: Daily.
- **Science Citation Index (Print and Electronic)**  
Citations to the literature of science, technology, medicine, and related disciplines from 3,300 science journals worldwide. Searchable by author's name, title words, author addresses, cited works, cited authors, and journal titles. 1992 – Present (Electronic). For earlier years, see the printed *Cumulated Science Citation Index* on the lower level. Call No. \*R-SIBL Z7401.S365

## Print Resources

Indexes and abstracts to biology and chemical resources at the scholarly and research levels. Available in print versions only on the open shelves on the lower level of SIBL.

- **Biological Abstracts**  
Contains abstracts from life sciences journals. Includes "Genetics" as a major concept heading and a separate subject index for specific topics. Updated semi-monthly. Call No. \*R-SIBL QH301.B37
- **Biological Abstracts-Reports, Reviews, Meetings (RRM)**  
Contains abstracts of biology-related meetings, reviews, reports and patents; and synopsis of books, CDs, and software. Updated monthly. Call No. \*R-SIBL QH301
- **Chemical Abstracts**  
Abstracts of scientific and technical papers on chemistry/chemical engineering, including biochemical genetics. Updated: Weekly. Call No. \*R-SIBL QD1.A51

## WEB SITES

### The Exhibition

The online version of the DNA exhibit at SIBL, containing the images, captions, and bibliography of the displays:

- **Seeking the Secret of Life: The DNA Story in New York**  
<http://library.cshl.edu/DNAinNY/>

### More Online Resources

The following Web sites have additional resources related to the information found in the DNA exhibit at SIBL:

- **Access Excellence**

<http://www.accessexcellence.org/AB/BC/>

Access Excellence is a national science educational resource program primarily serving secondary school teachers. Their Web site has a biotechnology component, which includes a timeline of the discovery and research of DNA, pioneers' profiles, and various papers/briefs on the work done in genetics.

- **Cold Spring Harbor Laboratory Archives**

<http://library.cshl.edu/>

The Archives of the Laboratory contain books, papers, correspondence, and photographs relating to the history of genetics and molecular biology. The Web site contains their online catalog, links to databases/books, and descriptions of special collections, such as the James D. Watson Archives.

- **The DNAge – a Citywide Festival for the 50th Anniversary of the Discovery of the Double Helix**

<http://thednage.com/>

Provides descriptions and links to public events/exhibitions offered by New York organizations to celebrate DNA's 50<sup>th</sup> anniversary.

- **The National Center for Biotechnology Information (NCBI)**

<http://www.ncbi.nlm.nih.gov>

Incredible resource for molecular biology information. Includes publicly accessible databases, some with full-text access to journals and books, also tools for analysing genome data intended for the researcher. Try searching a living organism by choosing *Taxonomy* from the drop down menu in the top left-hand corner of the Web site.

- **The Rockefeller Archive Center**

<http://www.rockefeller.edu/archive.ctr/>

The Rockefeller Archive Center contains archival materials in various formats from the Rockefeller family, the Rockefeller University (a center of biomedical research), and the Rockefeller Foundation. The Web site lists the descriptions of the materials in these various archives.

- **Science, Industry, and Business Library – Free Public Programs**

<http://www.nypl.org/research/ /calendar/prog/sibl/progseries.cfm>

A series of free evening public lectures, films, and presentations at SIBL related to various science research topics.

- **Science Resources on the Internet – Science, Industry and Business Library**

<http://www.nypl.org/research/sibl/science/>

Click on the link "Internet Sites by Subject" in the table of contents on the left-hand side of the page to get to a list of science Web sites in various fields, including *biology* and *chemistry*, chosen by SIBL librarians. Also see links to *general science* sites.

- **Virtual Library: Biosciences**

<http://www.vlib.org.uk/Biosciences.html>

Portal site. See *Biotechnology* and *Genetics* sections for links to numerous sites with information on these topics, including databases, journals, directories, and commercial sites.