

Maxine Singer Papers

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Prepared by Erica Haakensen, Elizabeth Suckow, and Michael McElderry

Collection Summary

Title: Maxine Singer Papers

Span Dates: 1950-2004

Bulk Dates: (bulk 1970-1995)

ID No.: MSS85102

Creator: Singer, Maxine

Extent: 23,600 items ; 69 containers plus 1 oversize ; 27.4 linear feet

Language: Collection material in English, French, Greek, Italian, and Japanese

Location: Manuscript Division, Library of Congress, Washington, D.C.

Summary: Biochemist, science advocate, and administrator. Correspondence, laboratory notebooks, subject files, research material, reports, speeches and writings, printed matter, and miscellaneous items documenting Singer's genetic research, science advocacy, and administrative service with various scientific institutes and organizations, including her tenure as president of the Carnegie Institution of Washington.

Selected Search Terms

The following terms have been used to index the description of this collection in the Library's online catalog. They are grouped by name of person or organization, by subject or location, and by occupation and listed alphabetically therein.

People

Baltimore, David--Correspondence.

Baltimore, David.

Berg, Paul, 1926-

Berg, Paul, 1926- --Correspondence.

Bhargava, Pushpa M.

Burma, D. P.

Cohen, Stanley N.

Djerassi, Carl--Correspondence.

Frederickson, Donald S.

Fruton, Joseph S. (Joseph Stewart), 1912-2007.

Grunberg-Manago, Marianne, 1921-2013--Correspondence.

Hamer, Dean H.

Heppel, Leon Alma, 1912-

Heppel, Leon Alma, 1912- --Correspondence.

Khorana, Har Gobind, 1922-2011--Correspondence.

Khorana, Har Gobind, 1922-2011.

Klee, Claude B.

Kornberg, H. L.--Correspondence.

Lederberg, Joshua.

Nirenberg, Marshall W.

Scrowronski, Jacek.

Singer, Maxine.

Watson, James D., 1928- --Correspondence.

Wu, Carl.

Organizations

Asilomar Conference on Recombinant DNA Molecules.

Carnegie Institution of Washington.

Mekhon Vaitsman le-mada'.

National Institutes of Health (U.S.)

Yale University.

Subjects

Biochemistry.

Biotechnology.
Creationism.
DNA.
Enzymes.
Equality--United States.
Evolution.
Genetic code.
Genetic transcription.
Genetics.
Legislation.
Molecular biology.
Nucleic acids.
Recombinant DNA.
Research--Moral and ethical aspects.
RNA.
Science and state--United States.
Science--Moral and ethical aspects.
Science--Study and teaching.
SV40 (Virus)
Vietnam War, 1961-1975.
Women in science.

Places

United States--Social policy.

Occupations

Administrators.
Biochemists.

Administrative Information

Provenance

The papers of Maxine Singer, biochemist, science advocate, and administrator, were given to the Library of Congress by Singer in 2003 and 2006.

Transfers

Audiocassettes and a videotape have been transferred to the Library's Motion Picture, Broadcasting, and Recorded Sound Division where they are identified as part of these papers.

Copyright Status

Copyright in the unpublished writings of Maxine Singer in these papers and in other collections of papers in the custody of the Library of Congress has been dedicated to the public.

Access and Restrictions

The papers of Maxine Singer are open to research. Researchers are advised to contact the Manuscript Reading Room prior to visiting. Many collections are stored off-site and advance notice is needed to retrieve these items for research use.

Electronic Format

A digital version of part of the papers of Maxine Singer is available on the Internet at <http://profiles.nlm.nih.gov/DJ/> on the National Library of Medicine Web site.

Preferred Citation

Researchers wishing to cite this collection should include the following information: Container number, Maxine Singer Papers, Manuscript Division, Library of Congress, Washington, D.C.

Biographical Note

<i>Date</i>	<i>Event</i>
1931, Feb. 15	Born, New York, N.Y.
1952	Married Daniel Morris Singer B.A., Swarthmore College, Swarthmore, Pa.
1956-1958	Researched nucleic acids under Leon A. Heppel as a United States Public Health Service postdoctoral fellow, National Institute of Arthritis and Metabolic Diseases, National Institutes of Health, Bethesda, Md.
1957	Ph.D. in biochemistry, Yale University, New Haven, Conn.
1958-1974	Researched RNA structure and synthesis and contributed to Marshall Nirenberg's work on deciphering the genetic code as a research chemist in biochemistry, National Institutes of Health, Bethesda, Md.
1971-1972	Studied simian virus 40 in Ernest Winocour's laboratory as visiting scientist, Department of Genetics, Weizmann Institute of Science, Rehovot, Israel
1972-1982	Editorial board member, <i>Science</i> magazine
1973	Cochairman, Gordon Research Conference
1975	Member of the organizing committee and cosigner of the summary statement of the Asilomar report, International (Asilomar) Conference on Recombinant DNA Molecules
1975-1979	Head, Nucleic Acid Enzymology Section, Laboratory of Biochemistry, National Cancer Institute, National Institutes of Health, Bethesda, Md.
1975-1990	Trustee, Yale Corp., Yale University, New Haven, Conn.
1978	Selected member, Board of Governors and Scientific Academic Advisory Committee, Weizmann Institute of Science, Rehovot, Israel
1979-1987	Chief, Laboratory of Biochemistry, National Cancer Institute, National Institutes of Health, Bethesda, Md.
1985-1994	Director, Whitehead Institute for Biomedical Research, Cambridge, Mass.
1986	Nominated academician by Supreme Pontiff, Pontifical Academy of Sciences, Vatican City
1987-1988	Research chemist, National Cancer Institute, National Institutes of Health, Bethesda, Md.
1988	Awarded Distinguished Presidential Rank Award

1988-2002	President, Carnegie Institution of Washington, Washington, D.C.
1992	Awarded National Medal of Science
1994	Founder, Carnegie Academy for Science Education, Washington, D.C.
2007	Awarded National Academy of Science Public Welfare Medal

Scope and Content Note

The papers of Maxine Frank Singer (1931-) span the years 1950-2004, with the bulk of the material dating from 1970 to 1995. The collection consists of correspondence, laboratory notebooks, subject files, research material, reports, speeches and writings, printed matter, and miscellaneous items documenting Singer's career as a biochemist specializing in the field of RNA and DNA research, as an advisor and spokesperson on science policy issues, and as president of the Carnegie Institution of Washington. The papers include correspondence and clippings in French, Greek, Italian, and Japanese and are organized in the following series: [Correspondence](#), [Laboratory Notebooks](#), [Recombinant DNA File](#), [Subject File](#), [Conferences and Meetings](#), [Miscellany](#), and [Oversize](#).

The [Correspondence](#) series contains letters, memoranda, telegrams, cards, and enclosures that refer to Singer's research, public advocacy, and administrative appointments over a period of four decades. Singer began her career as a postdoctoral fellow studying nucleic acids in the laboratory of Leon A. Heppel at the National Institutes of Health. The Correspondence highlights her contributions to research in biochemistry and molecular biology at the institute, including her experiments with enzymes, DNA transcription, and LINE-1 mammalian DNA sequences, as well as her research on simian virus 40 during a sabbatical from 1971 to 1972 at the Weizmann Institute of Science in Rehovot, Israel. While at the National Institutes of Health, Singer became increasingly concerned with the scientist's role in society and the insight her discipline could bring to such public policy disputes as gender equality in hiring and promotion practices and the Vietnam War. The Correspondence reflects her growing interest in social issues and her concern for the ethical use of biotechnologies and for the cause of scientific freedom at home and abroad. Although there is some overlap, the series is generally arranged chronologically from 1955 to 1988 and alphabetically from 1989 to 2002, the latter coinciding with Singer's term as president of the Carnegie Institution of Washington, and contains notable correspondents including David Baltimore, Paul Berg, Carl Djerassi, Marianne Grunberg-Manago, Leon A. Heppel, Har Gobind Khorana, Hans L. Kornberg, and James Watson.

The evolution of Singer's research interests and activities, particularly during her early years as a scientist, is evident in the [Laboratory Notebooks](#) series. Volumes from her postdoctoral fellowship at the National Institutes of Health contain the protocols, raw data, and conclusions from her experiments in RNA enzyme structure and function. The notes from the 1960s record her work with, among others, Marshall Nirenberg's team in deciphering the genetic code and her collaboration with Har Gobind Khorana. Later notebooks document Singer's work with viral RNA that began during her sabbatical at the Weizmann Institute of Science. The bulk of the notebooks detail her work under Heppel from 1957 to 1964.

In the 1970s, the scientific community examined methods of minimizing the potential environmental and evolutionary hazards involved in the newly emerging field of recombinant DNA research. Singer's participation in the discussion is well documented in the [Recombinant DNA File](#). An index to the series precedes the material that is organized by the original numbers assigned to the ring binders from which the items were removed. Items not included in the binders are arranged chronologically as reference material. The files from 1973 to 1975 focus on the Asilomar Conference on Recombinant DNA Molecules that was co-organized by Singer. Conference participants reviewed the potential benefits and hazards of recombinant research and discussed the need to impose restrictions on the new technology. The series illustrates the growing public demand for stricter federal regulations and recounts the preparation and release of the National Institutes of Health's Guidelines on Recombinant DNA Research in 1976. The bulk of the material in this series dates from 1977 to 1980 when the research guidelines were revised and a federal recombinant DNA research bill was proposed and reworked. In response to these legislative initiatives, Singer, along with colleagues David Baltimore, Stanley N. Cohen, Donald S. Fredrickson, and Joshua Lederberg, appeared at several congressional hearings to present reports and provide expert testimony, copies of which can be found in this series.

The [Subject File](#) covers a broad range of topics reflecting Singer's roles in service to science and the community and largely corresponds to her administration as president of the Carnegie Institution of Washington. The series includes material collected by Singer concerning various biochemists, biologists, geneticists, government officials, molecular biologists, and other scientists and associates including Pushpa M. Bhargava, D. P. Burma, Joseph S. Fruton, Dean H. Hamer, Claude B. Klee, Jacek Skowronski, and Carl Wu. Singer served on the boards and committees of many corporate, scientific, and public service organizations, and a substantial volume of files is devoted to her work with these institutions and associations. In addition, extensive files document her close affiliation with the Carnegie Institution of Washington, National Institutes of Health, Weizmann Institute of Science, and Yale University. Additional material located throughout the series depicts Singer's interest in diverse topics such as the promotion of science education, creationism and the teaching of evolution, science-related legislation, and the publication of fraudulent scientific data.

The [Conferences and Meetings](#) series records Singer's participation in professional conferences, seminars, symposia, and other meetings as a prominent biochemist and scientific advisor. The majority of the files, particularly those from 2000 to 2002, contains information about travel and scheduling arrangements and includes items from these events such as summary reports, clippings, and statements. Additional information regarding Singer's participation at selected conferences and meetings can be found in the [Recombinant DNA File](#) and the [Subject File](#).

Following her appointment as president of the Carnegie Institution of Washington in 1988, Singer became a frequent speaker and writer who was in high demand as an authority on topics such as genetics, the formulation of guidelines for recombinant DNA research, and women in science. The [Miscellany](#) series contains correspondence, notes, and drafts of Singer's speeches, lectures, and writings. Material concerning her collaborations with biochemist Paul Berg offers insight on the publication of their books on gene theory and the history of genetic research. The series also includes a few items of a more personal nature such as awards and certificates, photographs, and a diary account and mementos of trips and family vacations.

Organization of the Papers

The collection is arranged in seven series:

- [Correspondence, 1955-2004](#)
- [Laboratory Notebooks, 1956-1985](#)
- [Recombinant DNA File, 1972-1980](#)
- [Subject File, 1950-2002](#)
- [Conferences and Meetings, 1963-2002](#)
- [Miscellany, 1952-2002](#)
- [Oversize, 1990](#)

Description of Series

<i>Container</i>	<i>Series</i>
BOX 1-19	<p><u>Correspondence, 1955-2004</u></p> <p>Letters received and copies of letters sent, memoranda, telegrams, cards and invitations, peer reviews, notes, printed matter, and miscellaneous items relating to Singer's professional activities and personal life.</p> <p>Arranged chronologically from 1955 to 1988 and alphabetically from 1989 to 2004, with some overlap.</p>
BOX 19-29	<p><u>Laboratory Notebooks, 1956-1985</u></p> <p>Looseleaf note paper removed from binders, bound notebooks, graphs, tables, data readouts, photographs, printed matter, and miscellaneous items documenting Singer's laboratory experiments on DNA and RNA enzymes and viral RNA.</p> <p>Organized by vol. number; unnumbered vols. are arranged chronologically.</p>
BOX 30-39	<p><u>Recombinant DNA File, 1972-1980</u></p> <p>Correspondence, reports, speeches, testimony, agenda, federal registers, clippings, legislative bills, and miscellaneous items concerning policy decisions on recombinant DNA research.</p> <p>Organized by binder no.; reference material not included in binders is arranged chronologically. An item-level index arranged alphabetically by subject is also included.</p>
BOX 39-60	<p><u>Subject File, 1950-2002</u></p> <p>Correspondence, memoranda, reports, clippings, photographs, printed matter, and miscellaneous items.</p> <p>Arranged alphabetically by subject.</p>
BOX 60-64	<p><u>Conferences and Meetings, 1963-2002</u></p> <p>Correspondence, memoranda, itineraries, reports, printed matter, programs, and miscellaneous items relating to conferences, seminars, symposia, and other meetings in which Singer participated.</p> <p>Arranged chronologically by date of event.</p>
BOX 64-69	<p><u>Miscellany, 1952-2002</u></p> <p>Correspondence, speeches and lectures, writings, drafts, notes, photographs, printed matter, and miscellaneous items.</p> <p>Arranged alphabetically by type of material.</p>
BOX OV 1	<p><u>Oversize, 1990</u></p> <p>Certificate.</p> <p>Arranged and described according to the series, container, and folder from which the item was removed.</p>

Container List

<i>Container</i>	<i>Contents</i>
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BOX 1	Chronological 1955-1963 (7 folders)
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BOX 3	1967, June-1969 (6 folders)
BOX 4	1970-1971 (5 folders)
BOX 5	1972-1974, May (6 folders)
BOX 6	1974, June-1976 (7 folders)
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BOX 9	1981-1982, July (6 folders)
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Correspondence, 1955-2004

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Khorana, Har Gobind, 1982, undated
King, Donald West, 1988
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Koshland, Daniel E., 1988-1990
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Correspondence, 1955-2004

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BOX 19-29

Laboratory Notebooks, 1956-1985

Looseleaf note paper removed from binders, bound notebooks, graphs, tables, data readouts, photographs, printed matter, and miscellaneous items documenting Singer's laboratory experiments on DNA and RNA enzymes and viral RNA.

Organized by vol. number; unnumbered vols. are arranged chronologically.

BOX 19

Numbered

Vol. 1, 1956, Sept.-1957, Mar.

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Vol. 4, 1957, Oct.-Dec.

Vol. 5, 1957, Dec.-1958, Apr.

Vol. 6, 1958, Mar.-1959, May, Azotobacter polynucleotide phosphorylase preparation

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Vol. 10, 1959, Jan.-1960, Mar., s-RNA experiments (book 1)

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Vol. 12, 1960, June-1962, Apr., oligonucleotides

BOX 23

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Vol. 14, 1960, Oct.-1961, July, s-RNA

Vol. 15, 1960, Nov.-1961, Jan., Micrococcus lysodeikticus

BOX 24

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Vol. 20, 1961, Mar.-1962, Feb., arsenolysis (book 1)

Vol. 21, 1962, Feb.-Oct., arsenolysis (book 2)

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Vol. 23, 1962, Oct.-1963, Sept.

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Vol. 25, 1961, Jan.-1963, Oct., poly C (cytosine)

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Vol. 27, 1964, June-1966, June, polynucleotide phosphorylase

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Laboratory Notebooks, 1956-1985

Container

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BOX 30-39

Recombinant DNA File, 1972-1980

Correspondence, reports, speeches, testimony, agenda, federal registers, clippings, legislative bills, and miscellaneous items concerning policy decisions on recombinant DNA research. Organized by binder no.; reference material not included in binders is arranged chronologically. An item-level index arranged alphabetically by subject is also included.

BOX 30

Index cards, 1972-1979

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BOX 31

N-Z and unsorted

BOX 32

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No. 10, 1977, May-June

(2 folders)

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1974-1977, Mar. 17

(6 folders)

BOX 36

1977, Mar. 18-Dec.

(3 folders)

BOX 37

1978, Jan.-Oct.

(6 folders)

BOX 38

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BOX 39

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(4 folders)

BOX 39-60

Subject File, 1950-2002

Correspondence, memoranda, reports, clippings, photographs, printed matter, and miscellaneous items.

Arranged alphabetically by subject.

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Iota Sigma Pi, National Honor Society of Women of Chemistry

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Sigma Delta Epsilon, Graduate Women in Science, 1988

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California State University, Long Beach, Calif., 1988

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Albert and Mary Lasker Foundation

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- General, 1995-1999
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 - Allied-Signal Outstanding Project Award panel, 1992-1993
 - General, 1994-2001
- American Academy of Arts and Sciences, Cambridge, Mass., 1978, 1988-1993, 1999-2001
- American Academy of Microbiology, Washington, D.C., 1992
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- American Chemical Society, 1967
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 - American Society for Microbiology, 1996-1998
 - American Society of Biochemistry and Molecular Biology, 1988-1990
 - Apartheid, South Africa, 1988-1989
 - AppleTree Institute for Education Innovation, Washington, D.C., 1999
 - Association of American Universities, 1992, 2001
 - Association of Women in Science, 1996
 - Awards ceremonies
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 - National Institutes of Health Alumni Award for Public Service, 1995
 - National Medal of Science Award, 1992
 - National Science Foundation, Presidential Awards for Excellence in Science and Mathematics Teaching, 1992-1993
 - Rosalind E. Franklin Award for Women in Science, 2001
 - Society for the Advancement of Women's Health Research, achievement awards, 1995-1999
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 - Bayev, A. A., 1995
 - Berg, Paul, 1990-2002
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 - Bhargava, Pushpa M., 1975-1984
 - Canellakis, Zoe, 1982-1986
 - Chheda, Girish B., 1968-1969
 - Fanning, Thomas G., 1988-1993
 - Frenkel, Gerald, 1978-1983
 - Fruton, Joseph S., 1979-1981, 1989-1999
 - Grunberg-Manago, Marianne, 1958-1961, 1979-1989, 1999, undated
 - Karavanov, Alexander, circa 1988-1989
 - Kharroubi, Akram, 2001
 - Klee, Claude B., 1962-1965, 1977-2000
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 - Lerman, Michael I., 1988-1989

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Malcom, Shirley, 2001
Margulies, Maurice, 1989
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Silverstein, Samuel C., 1996-2002
Sogin, Mitchell, 1988

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Benjamin Franklin National Memorial, Bower Award for Achievement in Science,
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Chulabhorn Research Institute, Bangkok, Thailand, 1990-1995

Clinton Transition Committee, 1992-1993, undated

Committee of Concerned Scientists, 1988-1991

Committee on Genetic Experimentation Review Panel, 1991-1992

Committee on Science, Engineering, and Public Policy

Chairman, 1998-2002

Cloning project, 2001

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Engelhardt Institute of Molecular Biology, Moscow, Russia, 1993-1997

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Kansas State Board of Education, decision on evolution, 1999

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BOX 45

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Container

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1979, Mar. 21-Apr. 8, European Molecular Biology Organization lecture tour and International Conference on Recombinant DNA, Committee on Genetic Experimentation, Kent, England, 1978-1979
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Apr. 20-22, Forty-third Annual Conference of the American Humanist Association, Washington, D.C., 1984
May 7-8, "Biosensors and the U.S. Navy," Committee on Biotechnology Applied to Naval Needs, Washington, D.C., 1984
Oct. 8-12, "Organization of the Eukaryotic Genome," course, and "Mobile Elements in the Eukaryotic Genome," symposium, Balaruc-les-Bains, France, 1983-1984, undated
1988
May 31, Johnson & Johnson Luncheon Series, New Brunswick, N.J., 1987-1988
July 10-17, Fourteenth International Congress of Biochemistry, Prague, Czechoslovakia, 1987-1988
Aug. 29-31, North Atlantic Treaty Organization (NATO)/Federation of European Biochemical Societies Advanced Research Workshop, Spetsai, Greece, 1988
Sept. 19-20, twenty-fifth anniversary jubilee symposium, International Institute of Genetics and Biophysics, Naples, Italy, 1988

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Oct. 13-15, "Swarthmore Today for Scientists and Engineers," Swarthmore College, Swarthmore, Pa., 1988-1989

Oct. 16-18, Conference on Ethics and Policy in Scientific Publication, Washington, D.C., 1988-1989

Dec. 9, "LINE-1 Sequence: A Human Transposable Element," University of North Carolina, Chapel Hill, N.C., 1988-1989

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Mar. 10-12, "TV News: The Cutting Edge," Scientists Institute for Public Information, Coconut Grove, Fla., 1988-1989

Apr. 21-22, DeCamp Symposium on Biotechnology, Ethics, and Public Policy, Bedminster, N.J., 1989

May 17, American Society for Microbiology annual meeting, New Orleans, La., 1988-1989

May 26, Joseph Henry dinner and lecture, Washington Philosophical Society, Washington, D.C., 1989

June 2-4, "Mechanisms of Eukaryotic DNA Recombination," Physicians and Surgeons Biomedical Sciences, Columbia University, Harriman, N.Y., 1989

July 21-29, Fourth Annual MD/PhD Conference, University of Colorado, Aspen, Colo., 1989

Aug. 21-26, Laboratory of Tumor Cell Biology annual meeting, National Cancer Institute, Bethesda, Md., 1989

Oct. 13-15, Twentieth Anniversary Celebration and Conference, National Abortion Rights Action League, Washington, D.C., 1989

1990, Apr. 19, Georgetown University Family Center Professional Lecture Series, Washington, D.C., 1989-1990

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Feb. 1-2, "Future of Science in America: Science Education for All," Spelman College, Atlanta, Ga., 1990-1991

Apr. 16, "Jumping Genes," Thomas Jefferson High School for Science and Technology, Alexandria, Va., 1990-1991

Sept. 25, Florence Mahoney Lecture on Aging, National Institute on Aging, Bethesda, Md., 1990-1991

1992

May 2, Alfred H. Bloom inauguration symposium, Swarthmore College, Swarthmore, Pa., 1992-1993

May 10-12, Joint Appeal by Religion and Science for the Environment, Washington, D.C., 1992

June 1, Biology Club seminar, Johns Hopkins University, Baltimore, Md., 1992

June 23-28, Institute for Advanced Study visit, Princeton, N.J., 1992

Aug. 1-8, Japanese Association for Mathematical Sciences seminar, Hokkaido, Japan, 1990-1992

Oct. 2-4, dialogue with the National Academy of Sciences, Committee on Science and Human Values, National Conference of Catholic Bishops, Washington, D.C., 1992

1993

June 8, Weizmann Institute of Science 1993 Science Forum, Washington, D.C., 1993

Sept. 10-12, "Global Population/Global Resources," Washington, D.C., 1993

- Sept. 12, "Moral and Social Ramifications of Genetic Testing and Screening," Washington, D.C., 1992-1993
- Sept. 15, "National Cancer Institute Grand Rounds," and Fogarty International Center advisory panel meeting, National Institutes of Health, Bethesda, Md., 1993
- 1994, Mar. 12-13, "Beyond Dualism: Current Epistemological Convergences between the Sciences and Humanities," Stanford University, Palo Alto, Calif., 1993-1994
- 1995
- Jan. 12, science and diplomacy, Congressional Fellows symposium, American Association for the Advancement of Science, Washington, D.C., 1994-1995
- Oct. 27, Institute for Advanced Study decadal review, Princeton, N.J., 1995
- Nov. 12, National Science Resources Center Advisory Board meeting, Washington, D.C., 1995
- 1998, Feb. 6-8, "Forum on Early Childhood Science, Mathematics, and Technology Education: Policy, Partners, and Practice," American Association for the Advancement of Science, Washington, D.C., 1998
- 1999
- July 15, Carnegie Institution of Washington centennial science advisors meeting, Cambridge, Mass., 1999
- July 22, Fred Spar meeting, New York, N.Y., 1999
- Aug. 27-30, "Light and Photosynthesis: From the Molecule to the Globe," Olle Bjorkman retirement symposium, Napa, Calif., 1999
- Sept. 15-16, Johnson & Johnson Board of Directors meeting; and, Carnegie Institute of Washington Finance, Budget, and Operations Committee meeting, New York, N.Y., 1999
- Oct. 25-Nov. 5, Carnegie Institution of Washington Centennial Science Advisors meeting, New York, N.Y.; and, Weizmann Institute of Science meetings, Washington, D.C., 1998-2000
- Nov. 7-17, Directors' Conference, Las Campanas Observatory, La Serena, Chile, 1998-1999
- Dec. 6, Carnegie Institution of Canada Board of Directors meeting, Montreal, Canada, 1999
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- Feb. 15-21, Asilomar twenty-fifth anniversary symposium, Los Angeles, Calif., 1999-2000
- Mar. 2-4, Carnegie Institution of Washington, Finance, Budget, and Operations Committee meeting, New York, N.Y.; and, Department of Embryology Visiting Committee meeting, Baltimore, Md., 2000
- Mar. 10, "The Pioneering Efforts of Women in Medicine and the Medical Sciences," Stanford University, Palo Alto, Calif., 1999-2000
- Mar. 17, Jack Szostak visit, Massachusetts General Hospital, Boston, Mass., 2000
- Apr. 3-5, First Annual Astrobiology Science Conference, Moffett Field, Calif., 1999-2000
- Apr. 10, Hubble Space Telescope tenth anniversary symposium, Pasadena, Calif., 2000
- Apr. 11-13, "Science and Technology at the Millennium: Retrospect and Prospect," American Association for the Advancement of Science, Washington, D.C., 2000
- Apr. 14, Rothenberg Lecture in Biology and Public Policy, Bryn Mawr College, Bryn Mawr, Pa., 1999-2000
- Apr. 23-26, Dael L. Wolfle Lecture, Seattle, Wash., 1999-2000
- May 11, Whitehead Institute for Biomedical Research policy symposium dinner, Cambridge, Mass., 2000
- May 21, Wilbur Lucius Cross Medalists luncheon, Yale University, New Haven, Conn., 1999-2000
- May 23, Jim Kimsey meeting, 2000

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June 5-7, Entrepreneurship and Public Policy Commission meeting; Weizmann Institute of Science, Women and Science Award ceremony; and American Society for Cell Biology Public Policy Committee meeting, New York, N.Y., 2000

June 19-21, Lord Sainsbury dinner and Mellon Foundation meeting, New York, N.Y., 2000

July 5-6, Steve Fodor meeting, San Francisco, Calif., 2000

Sept. 12, Carnegie Institution of Canada Board of Directors meeting, Montreal, Canada, 2000

Sept. 15, "Centocor Research and Development Review Day," Johnson & Johnson, New Brunswick, N.J., 2000

Sept. 15-17, dialogue on genetically modified plants, Committee on Science and Human Values, National Conference of Catholic Bishops, Arlington, Va., 2000

Sept. 26, Radcliffe Institute Inaugural lecture series, Harvard University, Cambridge, Mass., 2000

Oct. 2-3, "Global Ecology: At the Frontier of a New Science," Carnegie Institution of Washington, Stanford, Calif., 2000

2001

Jan. 10-17, Ralph M. Parsons Foundation meeting and Ahmanson Foundation meeting, Los Angeles, Calif., 2000-2001

Feb. 7, Advisory Panel on Research meeting, Association of American Medical Colleges, Washington, D.C., 2000-2001

Mar. 8, Richard Lounsbery Foundation meeting and Weizmann Institute of Science Presidential Search Committee meeting, New York, N.Y., 2000-2001

Mar. 14, Andrew W. Mellon Foundation meeting, New York, N.Y., 2001

Mar. 26-27, Entrepreneurship and Public Policy Commission meeting and Weizmann Institute of Science Presidential Search Committee meeting, London, England, 2000-2001

Apr. 9, Euan Baird and Philippe Lacour-Gayet visit, Washington, D.C., 2001

Apr. 10-12, National Aeronautics and Space Administration Astrobiology Institute annual meeting, Washington, D.C., 2001

Apr. 28-May 1, National Academy of Sciences annual meeting, Washington, D.C., 2001

May 1-6, Gordon & Betty Moore Foundation meeting, San Francisco, Calif.; and Stanford University and Carnegie Institution of Washington Board of Trustees meetings, Palo Alto, Calif, 2000-2001

May 15, "Reproductive Health Science Seminar," New Brunswick, N.J., 2001

June 22, Perlegen Sciences Board meeting, Santa Clara, Calif., 2001

July 12-13, Committee on Organization and Management in Research in Astronomy and Astrophysics meeting, National Research Council, Palo Alto, Calif., 2001

July 27, Donald Fredrickson book party, American Society for Microbiology, Washington, D.C., 2001

Oct. 4-7, "Adaptive Agents, Intelligence, and Emergent Human Organization: Capturing Complexity through Agent-Based Modeling," Arthur M. Sackler Colloquium, National Academy of Sciences, Irvine, Calif., 2001

Oct. 18-21, thirtieth anniversary conference, Association for Women in Science, Washington, D.C., 2001

Dec. 12, Carnegie Institution of Canada Board of Directors meeting, Montreal, Canada, 2001

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Feb. 25-Mar. 1, Las Campanas Observatory visit, La Serena, Chile, 2001-2002

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- Apr. 10-13, Director's Science Council meeting, National Aeronautics and Space Administration Astrobiology Institute, Moffett Field, Calif., 2002
- Apr. 27, "Symposium on the Manhattan Project: Science in the Service of War," Atomic Heritage Foundation, Washington, D.C., 2002
- Apr. 27-30, National Academy of Sciences annual meeting, Washington, D.C., 2002
- June 3-4, Weizmann Institute of Science, Women and Science Award Ceremony; and Vartan Gregorian, Jon Friedman, and Richard Foster meetings, New York, N.Y., 2002
- June 12, Center for Science, Policy, and Outcomes salon meeting, Columbia University, New York, N.Y., 2002
- June 13, U.S. Department of Commerce, Science and Technology Fellowship Program presentation, Washington, D.C., 2002
- July 16, Perlegen Science Board meeting, Palo Alto, Calif., 2002
- July 26, High Pressure Collaborative Access Team dedication ceremony, Argonne National Laboratory, Argonne, Ill., 2002
- Sept. 12, Carnegie Institution of Washington, Finance, Budget, and Operations Committee meeting and Lee Bollinger meeting, New York, N.Y., 2002
- Sept. 27-28, Observatories Director Search Committee meeting and Pasadena Museum of History gala event, Pasadena, Calif., 2002
- Oct. 8-10, Carnegie Institution of Washington, Department of Plant Biology Visiting Committee, Stanford University, Palo Alto, Calif.; and Women Leaders in Science seminar, University of California, San Francisco, Calif., 2002

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Pines, Maya, The New Human Genetics: A Cell Bank Helps Researchers Fight Inherited Disease, 1976
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1989, Oct. 27, "Biology: Forty Years at the Frontier," Smithsonian Institution and the National Academy of Sciences, Washington, D.C., 1989
1990
May 17, "Gene Structure and Function," Foundation for Advanced Education in the Sciences, Bethesda, Md., 1990
Sept. 14, "Lessons from Mirrors," Rockefeller University, New York, N.Y., 1990

- 1992, June 11, "Symposium on Women in Biomedical Careers: Dynamics of Change Keynote Address," National Institutes of Health, Bethesda, Md., 1992-1993
- 1996
- Feb. 13, "The Future of Science Museums: The Smithsonian as Test Case," American Association for the Advancement of Science, Baltimore, Md., 1994-1996
- Apr. 17, "Behind the Endless Frontier," American Association for the Advancement of Science, Washington, D.C., 1996
- BOX 66** June 26, "GTE Growth Initiatives for Teachers Program Dinner Keynote Speech," Mayflower Hotel, Washington, D.C., 1996
- 1997
- Jan. 19, "New Knowledge, New Dilemmas, New Solutions," U.S. Holocaust Memorial Museum, Washington, D.C., 1997
- Mar. 20, "Thoughts of a Nonmillenarian," American Academy of Arts and Sciences, Washington, D.C., 1997
- June 7, "Alumni Weekend Swarthmore Collection," Swarthmore College, Swarthmore, Pa., 1997
- 1998, Sept. 11, "Remarks on Human Cloning," Committee on Science and Human Values, National Conference of Catholic Bishops, Washington, D.C., 1998
- 1999, June 27, "Genetics and Health," UNESCO, Budapest, Hungary, 1998-1999
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- 2000
- Oct. 17, "Enhancing the Postdoctoral Experience for Scientists and Engineers: A Guide for Postdoctoral Scholars, Advisors, Institutions, Funding Organizations, and Disciplinary Societies: Opening Statement," Association of American Medical Colleges, Savannah, Ga., 2000
- Nov. 28, "Long Term, Creative Strategies for Addressing Public Interest Missions," American Association for the Advancement of Science, Washington, D.C., 1999-2000
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- Feb. 23, "Genetically Modified Organisms," Pontifical Academy of Sciences, Vatican City, 2000-2001
- BOX 67** Sept. 21, "Invention: New Research Questions," Yale University, New Haven, Conn., 2001-2002
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- 2002, Jan. 10, "Galaxies: Mind Over Matter," a celebratory symposium for Vera Rubin, introduction for Allan Sandage, Carnegie Institution of Washington, Washington, D.C., 2001-2002
- U.S. Congress, House of Representatives, Committee on Science and Technology, Subcommittee on Science, Research, and Technology, reports, 1974, 1980
- Vacation, Pasadena, Calif., 2000
- Writings
- Articles about Singer, 1989-1990, 1996
- Articles and miscellaneous writings by Singer
- "Answers from Outside the Box," *Washington Post*, 2001
- "Assault on Science," *Washington Post*, 1996
- "Believing Is Not Understanding," *Washington Post*, 1999
- "Betting on Research," in *Nurturing Creativity in Research* (1995), 1996
- "The Challenge to Science: How to Mobilize American Ingenuity," in *The Age of Terror* (2002), 2001-2002

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- “Cytoplasmic Ribonucleoprotein Complexes Containing Human LINE-1 Protein and RNA,” with Hirohiko Hohjoh, *EMBO Journal*, 1996
- “DC Public Schools: Train the Teacher,” *Washington Post*, 1998
- Editorial on bovine somatotropin, with Virginia Weldon, unpublished, 1990-1991
- “Heroines and Role Models,” *Science* (1991), 1991-1997
- “Hot Tomato,” *Washington Post*, 1993
- “The Human LINE-1 Reverse Transcriptase Domain,” with Andrew Clements, *Nucleic Acids Research*, 1998
- “I Can Do It,” *Swarthmore College Bulletin*, 1998
- “An Inclusive Agenda for Change,” *Washington Post*, 2001
- “LINE-1 Sequences: Human Transposable Elements,” in *Evolutionary Tinkering in Gene Expression*, 1989
- “No, You Can't Make Dinosaurs,” *Washington Post*, 1993
- “Nuclease Activity in Rabbit Reticulocytes,” with Paul Marks and Walter Farkas, *Biochimica et Biophysica Acta*, 1964
- “Report on Spetsai,” unpublished, 1966
- “Ribonuclease and High Salt Sensitivity of the Ribonucleoprotein Complex Formed by the Human LINE-1 Retrotransposon,” with Hirohiko Hohjoh, *Journal of Molecular Biology*, 1997
- “Sensible Policy on Human Cloning,” with Paul Berg, *Science*, 1998
- “Sequence-Specific Single-Strand RNA Binding Protein Encoded by the Human LINE-1 Retrotransposon,” with Hirohiko Hohjoh, *EMBO Journal*, 1997
- “Shaping the Future for Women in Science,” *American Society for Cell Biology Newsletter*, 2000
- “Strategies for the Future NIH Conference on Women in Biomedical Careers: Dynamics of Change: Strategies for the 21st Century Keynote Address,” *Journal of Women's Health*, 1992
- “Unusual Reverse Transcriptases,” *Journal of Biological Chemistry*, 1994-1995, undated
- “What Did the Asilomar Exercise Accomplish, What Did It Leave Undone?” *Perspectives in Biology and Medicine*, 2000
- “Who Needs a Space Station?” with Donald Brown, *Washington Post*, 1992

Book reviews

- Ferris, Timothy, *Coming of Age in the Milky Way*; Benno Muller-Hill, *Murderous Science*; and George F. Kennan, *Sketches from a Life*, in *Washington Post Book World*, 1990
- Grobstein, Clifford, *A Double Image of the Double Helix: The Recombinant DNA Debate*, in *Bioscience*, 1979
- Holmes, Frederick Lawrence, *Meselson, Stahl, and the Replication of DNA*, blurb for Yale University Press, 2001-2002
- Mattfeld, Jacquelyn A., and Carol G. Van Aken, editors, *Women and the Scientific Professions*, in *Bulletin of the Atomic Scientists*, 1967
- Richards, John, ed., *Recombinant DNA: Science, Ethics, and Politics*, in *Quarterly Review of Biology*, 1978-1979

Books

- Dealing with Genes*, with Paul Berg, 1989-1997
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- Exploring Genetic Mechanisms*, with Paul Berg, 1997-1999
- Genes and Genomes*, with Paul Berg

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