

**Maxine Singer Papers**  
**A Finding Aid to the Collection in the Library of Congress**



**Manuscript Division, Library of Congress**  
**Washington, D.C.**  
**2022**

Contact information: <https://hdl.loc.gov/loc.mss/mss.contact>

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Prepared by Manuscript Division staff

Finding aid encoded by Library of Congress Manuscript Division, 2007  
Revised 2022 May

## Collection Summary

**Title:** Maxine Singer Papers

**Inclusive Dates:** 1950-2007

**Bulk Dates:** 1970-1995

**ID No.:** MSS85102

**Creator:** Singer, Maxine

**Extent:** 23,600 items

**Extent:** 69 containers plus 1 oversize

**Extent:** 27.4 linear feet

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

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

**LC Catalog record:** <https://lccn.loc.gov/mm2004085102>

**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.

**Online Content:** Part of the papers of Maxine Singer is available on the National Library of Medicine website at <http://profiles.nlm.nih.gov/DJ/>. *To promote preservation of the originals, researchers are required to consult the online edition as available.*

## Selected Search Terms

The following terms have been used to index the description of this collection in the LC Catalog. They are grouped by name of person or organization, by subject or location, and by occupation and listed alphabetically.

### 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, 1912-2010--Correspondence.

Heppel, Leon Alma, 1912-2010.

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.

## **Acquisition Information**

The papers of Maxine Singer, biochemist, science advocate, and administrator, were given to the Library of Congress by Singer between 2003 and 2007.

## **Processing History**

The papers of Maxine Singer were arranged and described by Erica Haakensen, Elizabeth Suckow, and Michael McElderry in 2007. An addition was processed and the finding aid revised by Pang H. Xiong in 2022.

## **Transfers**

Audiocassettes and a videotape have been transferred to the Motion Picture, Broadcasting, and Recorded Sound Division where they are identified as part of the Maxine Singer Papers. Patrons are encouraged to contact the Motion Picture, Broadcasting, and Recorded Sound Division in advance of a research visit.

## 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.

## Online Content

Part of the papers of Maxine Singer is available on the National Library of Medicine website at <http://profiles.nlm.nih.gov/DJ/>. To promote preservation of the originals, researchers are required to consult the online edition as available.

## 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

Date	Event
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., 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.

## Scope and Content Note

The papers of Maxine Singer (1931- ) span the years 1950-2007, 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 are primarily in English and include correspondence and clippings in French, Greek, Italian, and Japanese. The collection is organized into eight series: [Correspondence](#), [Laboratory Notebooks](#), [Recombinant DNA File](#), [Subject File](#), [Conferences and Meetings](#), [Miscellany](#), [2022 Addition](#), 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.

The [2022 Addition](#) documents Singer's trip in 1986 to South Africa as part of a Yale Corporation delegation. Her handwritten diary of the trip was compiled and printed as *Diary of the Yale Delegation's Trip to South Africa to Assess the Activities of Portfolio Companies under Apartheid, June-July 1986* in 2007. The addition includes both the handwritten and printed versions of the diary and other material that provides insight into Singer's opposition to the university divestment movement.

## Arrangement of the Collection

This collection is arranged in eight 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](#)
- [2022 Addition, 1986-2007](#)
- [Oversize, 1990](#)

## Description of Series

Container	Series
BOX 1-19	<p><b><u>Correspondence, 1955-2004</u></b></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><b><u>Laboratory Notebooks, 1956-1985</u></b></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><b><u>Recombinant DNA File, 1972-1980</u></b></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><b><u>Subject File, 1950-2002</u></b></p> <p>Correspondence, memoranda, reports, clippings, photographs, printed matter, and miscellaneous items.</p> <p>Arranged alphabetically by subject.</p>
BOX 60-64	<p><b><u>Conferences and Meetings, 1963-2002</u></b></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><b><u>Miscellany, 1952-2002</u></b></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 69	<p><b><u>2022 Addition, 1986-2007</u></b></p> <p>Correspondence, handwritten and published diary, newspaper clipping, report, speech outline, and trip itinerary relating to Singer's trip to South Africa in 1986.</p>
BOX OV 1	<p><b><u>Oversize, 1990</u></b></p> <p>Certificate.</p> <p>Arranged and described according to the series, container, and folder from which the item was removed.</p>

# Container List

<b>Container</b>	<b>Contents</b>
<b>BOX 1-19</b>	<b>Correspondence, 1955-2004</b> 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. Arranged chronologically from 1955 to 1988 and alphabetically from 1989 to 2004, with some overlap.
<b>BOX 1</b>	Chronological 1955-1963 (7 folders)
<b>BOX 2</b>	1964-1967, May (5 folders)
<b>BOX 3</b>	1967, June-1969 (6 folders)
<b>BOX 4</b>	1970-1971 (5 folders)
<b>BOX 5</b>	1972-1974, May (6 folders)
<b>BOX 6</b>	1974, June-1976 (7 folders)
<b>BOX 7</b>	1977-1978 (6 folders)
<b>BOX 8</b>	1979-1980 (7 folders)
<b>BOX 9</b>	1981-1982, July (6 folders)
<b>BOX 10</b>	1982, Aug.-1983 (6 folders)
<b>BOX 11</b>	1984 (7 folders)
<b>BOX 12</b>	1985, Jan.-Aug. (7 folders)
<b>BOX 13</b>	1985, Sept.-1986, Apr. (7 folders)
<b>BOX 14</b>	1986, May-1987, Apr. (6 folders)
<b>BOX 15</b>	1987, May-1989 (7 folders)
<b>BOX 16</b>	1990-2002 (3 folders) Alphabetical Antonellis, Cori, 2001 Aposhian, H. Vasken, 1978



## Correspondence, 1955-2004

### Container

### Contents

---

BOX 17

Baker, Robert W., 1988  
Bam, Foster, 1991  
Bass, Sidney R., 1991-1993  
Berlin, Yu A., 1988  
Bhargava, Pushpa M., 1988-1992, 2001-2002  
Bina, Minou, 1989-1991, 2000  
Blair, Deeda, 1990-1995  
Blau, Helen M., 1989-1990  
Boeke, Jef D., 1988, 1995  
Brickner, Philip, 2002  
Brooks, Dee Dee, 1990  
Brungs, Robert A., 1989  
Bryan, John H., 1992  
Burma, Debi P., 1966-1971, 1988-1989  
Bush, George W., 2001  
Campbell, Colin G., 1987  
Cantor, Charles R., 1988-1989  
Castles, James, 1968-1969  
Cavanaugh, Carroll, 1990  
Celis, J. E., 1990-1991  
Chakrovorty, Maharani, 1981-1985  
Chambon, Pierre, 1985-1996  
Conarroe, Joel, 2001  
Copeland, Suzanne, 1988  
Cowles, William H., 1988  
Cummins, John S., 2001-2002  
Darst, David, 1991-2001  
Davis, Bernard D., 1992  
Davis, Joel, 1988-1989  
Delehanty, Hugh, 2001  
del Grosso, Nicoletta, 1988  
Denton, Derek, 1996  
Djerassi, Carl, 1988-1992  
Donnay, Victor, 1987-1988  
Doolittle, Russell, 1989-1990  
DuMaine, Pierre, 1998  
Duvick, Don, 2002  
Ellis, Charles, 1991  
Emerson, David, 1999-2000  
Ferris, Timothy, 2002  
Fill, Olivia, 1989-1995  
Finnegan, David, 1989-1990  
Franklin, Naomi, 1988  
Freeling, Joyce, 2002  
Fri, Robert W., 2001  
Galun, Eithan, 2000-2001

## Correspondence, 1955-2004

### Container

### Contents

---

	Galun, Esra, 2002
	Gardner, Howard, 2002
	Giamatti, A. Bartlett, 1988
	Givol, David, 1980
	Goddard, Lucy, 1995
	Gold, Barry D., 1992
	Gorecki, Marian, 1979-1980
	Gottesman, Max, 1989
	Gould, Stephen Jay, 1996-2000
	Gray, Gail, 1988, undated
	Greenfield, Meg, 1990, 1997
	Griffiths, Philip A., 1991-1995
	Grimaldi, Giovanna, 1979-1992
	Guardiola, John, 1988-1989
	Guenet, Chantal, 1994-1995
	Haberman, Joshua O., 1992
	Harris, Milton, 1988-1989
	Haselkorn, Robert, undated
BOX 18	Heppel, Leon A., 1955-circa 1959, 1968-1988, 2004, undated
	Hiatt, Howard, 2001
	Hinman, Richard L., 1991
	Ho, Yen Sen, 1988-1990
	Hofman, Roald, 1991
	Holmes, F. Lawrence, 2002
	Holt, Rush, 2001-2002
	Jensen, Elwood V., 1988
	Johnson, Irving S., 1988
	Judson, Horace F., 1995
	Kampelman, Max M., 2001
	Kaplan, Helene, 1990
	Kaplan, Martin, 1988
	Kevles, Daniel J., 1996
	Khorana, Har Gobind, 1982, undated
	King, Donald West, 1988
	Klausner, Richard D., 1988, 1995, 2001
	Korenberg, Julie R., 1988
	Kornberg, Hans L., 1989, 1995
	Koshland, Daniel E., 1988-1990
	Krone, Winifrid, 1988
	Kubo, Masako, 1988
	Landman, Otto, 1990
	Lederberg, Joshua, 1989
	Lee, Jeannie, 1989
	Lerner, Sandra K., 1990, 2000
	Levine, Arnold J., 1989
	Levine, Arthur S., 1990

## Correspondence, 1955-2004

### Container

### Contents

---

	Levinson, Morris L., 1988
	Lorimer, Linda Koch, 1988-1990
	Lower, Johannes, 1989
	Makgoba, M. W., 1989
	Marashie, Amir, 2001
	Martini, Giuseppe, 2000
	McElheny, Victor, 2000
	Miklos, George, 1988-1989, 1995
	Miller, Avis D., 1992
	Mokady, Ofer, 1996
	Morehouse, Ward, 1988
	Murphy, Declan C., 1992
	Nelson, Jerry, 2001
	Oliviera, Nathan, 1988
	Ollier, Nicole, 1988
	Omenn, Gilbert S., 1988
	Ozga, David, 1990, 1996
	Patrick, Ruth, 2002
	Porath, Moshe, 2002
	Price, Joseph W., 1989
	Radman, Miroslav, 1988
	Rao, G. R. Koteswar, 1971
	Rensberger, Boyce, 1989
	Rosenblith, Walter A., 1988
	Sawhill, John, 1990
	Schmid, Carl, 1988
	Sharp, Philip A., 1988-1989
	Shriver, Sargent, 1988-1994
	Sieff, David, 2002
	Singer, S. Fred, 1988
	Slavkin, Lois, 1995-1996
	Smelser, Neil J., 2001
	Sobieski, Donna, 1989
	Soll, Dieter, 1988
BOX 19	Speth, Gus, 1989
	Stark, George, 1992
	Stumpf, Paul, 1988-1989
	Tobias, Sheila, 1996
	Trachtenberg, Stephen J., 1991-1992
	Tsongas, Paul E., 1991
	Wasserman, Elga, 2001
	Wilmer, Cutler, and Pickering, 1989-1990
	Winter, Sidney G., 2000
	Wyngaarden, James, 1990
	Yochelson, Kathryn, 1991-1992
	Zachau, Hans, 1989-1990, 1996

## Correspondence, 1955-2004

Container	Contents
	Zaffaroni, Alejandro, 1995, 2001
<b>BOX 19-29</b>	<b>Laboratory Notebooks, 1956-1985</b> 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.
<b>BOX 19</b>	Numbered Vol. 1, 1956, Sept.-1957, Mar. Vol. 2, 1957, Feb.-June
<b>BOX 20</b>	Vol. 3, 1957, June-Sept. Vol. 4, 1957, Oct.-Dec. Vol. 5, 1957, Dec.-1958, Apr.
<b>BOX 21</b>	Vol. 6, 1958, Mar.-1959, May, Azotobacter polynucleotide phosphorylase preparation Vol. 7, 1958, May-Sept. Vol. 8, 1958, Oct.-1959, Mar.
<b>BOX 22</b>	Vol. 9, 1958, Sept.-1959, Apr., polynucleotide phosphorylase polymer formation Vol. 10, 1959, Jan.-1960, Mar., s-RNA experiments (book 1) Vol. 11, 1960, Mar.-Oct., s-RNA experiments (book 2)
<b>BOX 23</b>	Vol. 12, 1960, June-1962, Apr., oligonucleotides Vol. 13, 1960, Aug.-Nov., Micrococcus lysodeikticus Vol. 14, 1960, Oct.-1961, July, s-RNA Vol. 15, 1960, Nov.-1961, Jan., Micrococcus lysodeikticus
<b>BOX 24</b>	Vol. 19, 1961, Aug.-Dec. Vol. 20, 1961, Mar.-1962, Feb., arsenolysis (book 1) Vol. 21, 1962, Feb.-Oct., arsenolysis (book 2)
<b>BOX 25</b>	Vol. 23, 1962, Oct.-1963, Sept. Vol. 24, 1963, Jan.-Aug. Vol. 25, 1961, Jan.-1963, Oct., poly C (cytosine) Vol. 26, 1963, Sept.-1964, Dec., reticulocyte nuclease Vol. 27, 1964, June-1966, June, polynucleotide phosphorylase
<b>BOX 26</b>	Vol. 28, 1966, Aug.-1967, May Vol. 29, 1967, May-1968, Apr. Vol. 31, 1968, Oct.-1970, Feb.
<b>BOX 27</b>	Vol. 32, 1969, Aug.-1971, Mar. Vol. 33, 1969, Apr.-1970, June, adenosine diphosphate-Mg Vol. 34, 1970, June-Aug., metals deoxyadenosine diphosphate
	Unnumbered 1957, Jan.-1958, Mar.
<b>BOX 28</b>	1961, Jan.-Mar. 1961, Mar.-Sept. 1961, Dec.-1962, July
<b>BOX 29</b>	1971, Sept.-1972, July, simian virus 40 1972, Dec.-1978, Dec.

## Laboratory Notebooks, 1956-1985

Container	Contents
	1983, Feb.-1985, Apr.
<b>BOX 30-39</b>	<b>Recombinant DNA File, 1972-1980</b> 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.
<b>BOX 30</b>	Index cards, 1972-1979 A-Mc
<b>BOX 31</b>	N-Z and unsorted
<b>BOX 32</b>	Binders Nos. 1-2, 1973-1976, Aug. (7 folders)
<b>BOX 33</b>	Nos. 3-6, 1976, Nov.-1977, Feb. (7 folders)
<b>BOX 34</b>	Nos. 7-9, 1977, Mar.-May (7 folders)
<b>BOX 35</b>	No. 10, 1977, May-June (2 folders) Reference material 1974-1977, Mar. 17 (6 folders)
<b>BOX 36</b>	1977, Mar. 18-Dec. (3 folders)
<b>BOX 37</b>	1978, Jan.-Oct. (6 folders)
<b>BOX 38</b>	1978, Nov.-1979, Oct. (6 folders)
<b>BOX 39</b>	1979, Nov.-1980, undated (4 folders)
<b>BOX 39-60</b>	<b>Subject File, 1950-2002</b> Correspondence, memoranda, reports, clippings, photographs, printed matter, and miscellaneous items. Arranged alphabetically by subject.
<b>BOX 39</b>	Academic honor societies Alpha Omega Alpha, 1989-1990 Iota Sigma Pi, National Honor Society of Women of Chemistry General, 1963-1966, undated Research Awards Committee, 1968-1969 Phi Beta Kappa, 1990-1996, 2002
<b>BOX 40</b>	Sigma Delta Epsilon, Graduate Women in Science, 1988 Society of the Sigma Xi California State University, Long Beach, Calif., 1988 Swarthmore College, Swarthmore, Pa., 1950-1951, 1957-1959 Albert and Mary Lasker Foundation

## Subject File, 1950-2002

### Container

### Contents

---

	Albert Lasker Awards jury, 1992-1993, 1999
	General, 1995-1999
	Alliance for Aging Research
	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
	American Association for the Advancement of Science, 1979-1980, 1988-2001
	(2 folders)
	American Chemical Society, 1967
	American Philosophical Society, 1990-2001
	American Society for Cell Biology
	1992-1993
<b>BOX 41</b>	1995-2001
	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
	Mendel Medal Awards, 1994-1996
	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
	Washington, D.C., Hall of Fame Legacy Awards, 2000
	Women in Science and Education Lifetime Achievement Award, 1988
	Benatar, S. R., 1988-2001
	Biochemists
	Bayev, A. A., 1995
	Berg, Paul, 1990-2002
<b>BOX 42</b>	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
	(3 folders)
<b>BOX 43</b>	Kornberg, Arthur, 1992-1995
	Lerman, Michael I., 1988-1989

## Subject File, 1950-2002

### Container

### Contents

---

Mongkolsuk, Skorn, 1988-1992  
Saffer, Jeffrey D., 1989-1992  
Segal, Shoshana, 1988-1989  
Sela, Michael, 2000-2001  
Wilson, Samuel, 1988-1989  
Wu, Carl, 1995-1996  
Zioudrou, Christine, 1980-1983, 1990-2000

#### Biologists

Hutchinson, G. Evelyn, 1988-1992  
Malcom, Shirley, 2001  
Margulies, Maurice, 1989  
Margulis, Lynn, 1988  
Silverstein, Samuel C., 1996-2002  
Sogin, Mitchell, 1988

#### Boards and committees

Benjamin Franklin National Memorial, Bower Award for Achievement in Science,  
1990-1992

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

Meetings, 1999-2002

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

Federal City Council, 1995-2002

Franco-American Association for Fetal Medicine, 1989-1996

International University Exchange, 1996-2002

(2 folders)

Iowa Committee of Correspondence, 1989-1992

Jackson Laboratory, Bar Harbor, Maine, 1986-1991

Johnson & Johnson

Board of directors meetings

1999-2002, Feb.

(2 folders)

2002, Apr.-Oct.

General, 1988-2002

Joint Steering Committee for Public Policy, 1996-2001

Kansas State Board of Education, decision on evolution, 1999

Keck Graduate Institute of Applied Life Sciences, Claremont, Calif., 1997-2001

Lawrence Berkeley Laboratory, Human Genome Center, Berkeley, Calif., 1988-1989

March of Dimes Prize, 1997

Marian E. Koshland Science Museum, Washington, D.C., 2001-2002

National Advisory Board for BioLab, 2000-2002

National Conference of Catholic Bishops, Committee on Human Values

BOX 44

BOX 45

## Subject File, 1950-2002

### Container

### Contents

---

	1977-1991, Jan. (3 folders)
BOX 46	1991, Feb.-2001, undated (2 folders) Scientists' Institute for Public Information, New York, N.Y., 1989-1993 "Secret of Life," WGBH, Boston, Mass., PBS Series Advisory Committee, 1990-1992 Viamarconidieci Scientific Board, 1989, 1995 Whitehead Institute, Cambridge, Mass. Board of Associates, 1995-1998 Director Search Committee, 2000-2001 Carnegie Institution of Washington, Washington, D.C. Commission on Science, Technology, and Government, 1988-1996 Committee meetings Miscellaneous, 2002, undated Observatories Visiting Committee, 2002 Correspondence 1988-1991
BOX 47	1992-2002, undated (2 folders) Job references and recommendations, 1983-1988 (3 folders) Presidential appointment, congratulatory letters, 1987-1988 (2 folders) Task Force on K-12 Science and Mathematics Education, 1990-1992 (2 folders)
BOX 48	<i>Cell</i> magazine Baltimore, David, "Altered Repertoire of Endogenous Immunoglobulin Gene Expression in Transgenic Mice Containing a Rearranged Mu Heavy Chain Gene," controversy about article, 1988-1996, undated (2 folders) Lewin, Benjamin, 1988 Center for the Study of the Presidency, 2001-2002 Chemical and biological warfare pledge, 1989 Chemists Barton, Jackie, 1998-2002 Ponnampereuma, Cyril, 1992 Sciambi, Ann Lillian Huang, 1978 Wakamiya, Tateaki, 1988-1989 Choice Pharmaceuticals, 1990 Colleges and universities Bryn Mawr College, Bryn Mawr, Pa., 2000 Harvard University, Cambridge, Mass. Committee to Visit the Department of Cellular and Developmental Biology, 1988-1992 General, 1987-2000 Massachusetts Institute of Technology, Cambridge, Mass., oral history transcript request, 1990 Princeton University, Princeton, N.J., 2000



## Subject File, 1950-2002

### Container

### Contents

---

	Swarthmore College, Swarthmore, Pa., pledge donations, 1992-2001 (2 folders)
BOX 49	University of Washington School of Medicine, Seattle, Wash., 2000 Wesleyan University, Middletown, Conn., 1988, 1995 Yale University, New Haven, Conn. Campaign for Yale, 1978 Honorary Degree Committee, 1972, 1980 Tercentennial, 2000-2001, undated Yale Corp. General 1975-1984, July (5 folders)
BOX 50	1984, Aug.-1990 (3 folders) Search Committee, 1977-1978, 1985 Commencement ceremonies Barnard College, New York, N.Y., 1988-1989 Brandeis University, Waltham, Mass., 1988 Mount Sinai School of Medicine, New York, N.Y., 1988 University of Maryland, Baltimore County, Baltimore, Md., 1985 Commonwealth Fund, New York, N.Y., 1991 Council of Scientific Society Presidents, 1993-1997 Creationism, 1981-1987 “Crisis of Contemporary Science,” <i>Wilson Quarterly</i> , 1995 Czechoslovak Academy of Sciences, Prague, Czechoslovakia, 1988-1990 <i>Daedalus</i> , 1988-1989, 1995-1999
BOX 51	“Desert Island Discs,” WETA Radio, Washington, D.C., 1988-1989 Diers, Donna, 1973, 1979 Egan, Edward M., 2001 Exploratorium, San Francisco, Calif., 2001-2002 <i>FASEB Journal</i> , 1990-1995 Fredrickson, Donald S., “Asilomar: The End of the Beginning,” 1990 Gallo, Robert C., 1989-1992 Geneticists Arkipova, Irina R., 1991-1997 Blasi, Francesco, 1983-1999 Kazazian, Haig H., 1991, 1998-2002 Martin, Sandra, 2001 Moran, John, 2002 White, Raymond L., 1987-1988 Wolgemuth, Debra, 1988 Government officials Bromley, D. Allan, 1989-1991 Brown, George E., 1992-1995 Gibbons, John H., 1993-1996 Ginsburg, Ruth Bader, 1996-2002 Lovejoy, Thomas, 1988-1989, 1998-2001

## Subject File, 1950-2002

### Container

### Contents

---

	Shalala, Donna, 1993
	Vance, Cyrus, 1988-1990
	Yates, Sidney R., 1989
	Green, Harold P., 1989-1990
	Greenberg, Daniel S., 1995-1996
	Harvey, John Collins, 2001
	Human Frontier Science Program Organization, Strasbourg, France, 1990, 1996
BOX 52	Human Genome Organization, 1989-1992
	Human Genome Sciences, 2000
	Humphrey, Glen W., 1990-1991
	Imanishi-Kari, legal defense fund, 1992
	Institute for Policy Studies, Washington, D.C., 1988
	International Association for Women Bioscientists, 1988-1990
	International Society of Molecular Evolution, 1993
	Interviews
	MyRoad.com, Sophia Lehmann, 2000
	“Putting Science First,” <i>Washington Post</i> , 1989
	“Radio Science,” BBC Radio, 2000-2001
	“World of Ideas” with Bill Moyers, Public Broadcasting Service, 1988-1992 (2 folders)
	<i>Issues in Science and Technology</i> , 1988-1992
	Janssen, Paul, 1995-1996
	John Simon Guggenheim Memorial Foundation Fellowship, 1986-1992, 1999
	Katz, Dana, 2001
	Koelle, George B., 1988
	LINE-1 Workshop, 1989-1990
	MacArthur Fellows Program nominations, 1990-1992, 1999, undated
	Markey Charitable Trust, 1991-1996, 2002
	Medical Education for South African Blacks, 1990-1996
BOX 53	Memorial services and tributes
	Fredrickson, Donald S., 2002
	Giamatti, A. Bartlett, 1989-1990
	Hirsh, Jim, 1987
	Molecular biologists
	Baltimore, David, 1989-2001 (2 folders)
	Bernardi, Giorgio, 1989-1990, 2000-2002
	Burma, D. P., 1971-1973
	Carter, Anthony D., 1987-1992
	Craigie, Robert A., 1989
	Detera-Wadleigh, Sevilla, 1989-1990
	DiLauro, Roberto, 1988-1989
	Di Nocera, Pier Paolo, 1988-1996
	Eickbush, Thomas, 1988, 2002
	Hamer, Dean H., 1979-1986, 1995
	Lavi, Sara, 1988-1995

## Subject File, 1950-2002

### Container

### Contents

---

BOX 54	Maresca, Antonella, 1986-1991, undated	
	McCutchan, Thomas F., 1988	
	Mizrokhi, Lev J., 1985-1995, undated (2 folders)	
	Moses, Robb, 1990-1991	
	Nirenberg, Marshall, 2000	
	Perutz, Max F., 1991-2001	
	Rosenberg, Leon, 1991-1992	
	Shpakovski, George V., 1988	
	Steitz, Joan, 1999	
	Museum of Science, Boston, Mass., 2001	
	National Academy of Sciences, Washington, D.C., 1979-1980	
	National Association for Science, Technology, and Society, 1990	
	National Center for Science Education, 1988-1989	
	National Institutes for the Environment, 1990-1999	
National Institutes of Health, Bethesda, Md. Advisory Committee, 1989-1991		
BOX 55	Correspondence 1988-1991 1992-2002 (3 folders)	
	Interassembly Council, 1966-1967	
	Intramural Research Program External Advisory Committee, 1993-1994	
	Job references and recommendations, 1983-1988	
	Marimont, Rosalind, discrimination complaint, 1973	
	National Cancer Institute Search Committee, 1988-1995	
	National Institute of Mental Health, 1963-1965	
	Panel on Indirect Costs, 1991	
	BOX 56	Referrals, 1988-1990
		Travel, 1979-1982
		National Research Council Assembly of Life Sciences, 1979-1982 General, 1988-1993
		National Science Foundation, National Medal of Science, 1988-1998
		Neutrogena, 2000
		New York Academy of Sciences, New York, N.Y., 1987-1988
<i>Newsweek</i> request, 2001		
Peer reviews for magazines and journals <i>Biochimica et Biophysica Acta</i> , 1992 <i>Cellular and Molecular Biology Letters</i> , 2000 <i>EMBO Journal</i> , 1991-1992 <i>Genetica</i> , 1991 <i>Genome Research</i> , 2001 <i>Genomics</i> , 1991 <i>Journal of Molecular Evolution</i> , 1989 <i>Molecular and Cellular Biology</i> , 1988-1992		

## Subject File, 1950-2002

### Container

### Contents

---

	<i>Nature</i> , 1988-1989, 1996, 2002
	<i>Proceedings of the National Academy of Sciences, U.S.A.</i> , 1989-1991
	Unable to review, 1990-1992
	Pontifical Academy of Sciences, Vatican City, 1981-1987, 1995-2002, undated (2 folders)
	Postdoctoral fellows
	Clements, Andrew, 1992-1997
BOX 57	Hohjoh, Hirohiko, 1990-1992, 1999
	Kalish, Jennifer, 1995-1998
	Krek, Veronica, 2000
	Liu, Kang, 1991-1997
	Logan, David, 1964-1965
	Serman, Drasko, 1972-1973
	Skowronski, Jacek, 1981-1992, 1999, undated
	Zimarino, Vincenzo, 1989
	Raven, Peter, 1992
	Richards, Frederic, 1991-1993
	Schupf, Sara Lee, dinner, 1998
	Science education in Washington, D.C., 1993
	Science legislation, 1987-1990
	<i>Science</i> , human genome publication, 2000
	Science Park Development Corp., 1988
	Scientists and Engineers for Secure Energy, 1988
	Searle, Barbara W., 1991
	Sharpiro, Irwin, 2000-2002
	Singer, Stephanie, 1988-1991
BOX 58	Skalka, Ann, 2002
	Smithsonian Institution, Washington, D.C.
	General, 2000-2001
	National Museum of Natural History, 2000-2002
	Resident Associate Program, 1988-1989
	<i>Smithsonian World</i> , 1988
	Society for Women's Health Research, 2001-2002
	Solomon Schechter High School, New York, N.Y., 2000
	Spencer Stuart & Associates, 1990
	Stazione Zoologica di Napoli, Naples, Italy, 2002
	Talbott, Strobe, 1992, 2001
	<i>Trends in Genetics</i> , 1989-1992
	<i>U.S. News &amp; World Report</i> , 1989-1990
	Washington Academy of Sciences, Washington, D.C., 2000
	Washington Hebrew Congregation, Washington, D.C., 1991-1992, undated
	Watson, Matthew, 1988, 1998
	Weizmann Institute of Science, Rehovot, Israel
	American Committee for the Weizmann Institute
	Award in the Sciences and Humanities, 2002
	General, 1993-2001

## Subject File, 1950-2002

### Container

### Contents

---

- Women and Science Award Nominating Committee, 1996-2002  
Annual meetings, 1997-2002  
(2 folders)  
Feinberg Graduate School, 1990-1992  
Founder's day dinner, 1995
- BOX 59**  
General, 1980-2002, undated  
(3 folders)  
Presidential search, 2000-2001  
Scientific and Academic Advisory Committee  
General, 2000-2001  
Reviews, 1987-1995  
Yale/Weizmann Exchange Program, 1988-1993  
Welch Foundation, 1987-1990  
West, Richard, 1991  
Westinghouse Science Talent Search, 1989-1991  
"When Scientists Fudge," *Washington Post*, 1988-1989, undated
- BOX 60**  
*Who's Who in America*, 1992-1996  
Wolff, Robert P., 1991-1996
- BOX 60-64**      **Conferences and Meetings, 1963-2002**  
Correspondence, memoranda, itineraries, reports, printed matter, programs, and miscellaneous items relating to conferences, seminars, symposia, and other meetings in which Singer participated.  
Arranged chronologically by date of event.
- BOX 60**  
1964, Jan. 16-23, International Symposium on Nucleic Acids, Hyderabad, India, 1963-1964  
(2 folders)  
1966, July 4-16, Third Advanced Study Institute of Molecular Biology, Spetsai, Greece, 1965-1966  
1969, July 6-19, Fourth Advanced Study Institute of Molecular Biology, Spetsai, Greece, 1966-circa 1969  
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  
1984  
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

## Conferences and Meetings, 1963-2002

### Container

### Contents

---

#### BOX 61

- Sep. 26, Molecular Evolution Workshop, Marine Biological Laboratory, Woods Hole, Mass., 1988
- Sep. 28, "BIOS: The New Exploration of Life," advisory panel meeting, Boston, Mass., 1988
- 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
- 1989
- 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
- 1991
- 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

## Conferences and Meetings, 1963-2002

### Container

### Contents

---

#### BOX 62

- 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
- 2000
- 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

## Conferences and Meetings, 1963-2002

### Container

### Contents

---

#### BOX 63

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

#### BOX 64

#### 2002

Jan. 7, 199th meeting, American Astronomical Society, Washington, D.C., 2001-2002

Jan. 16, DC Action for Children annual meeting, Washington, D.C., 2001-2002

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



## Conferences and Meetings, 1963-2002

### Container

### Contents

---

- Mar. 13, Sarah T. Hughes Annual Lecture in Science, Goucher College, Baltimore, Md., 2002
- 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

### BOX 64-69

#### Miscellany, 1952-2002

Correspondence, speeches and lectures, writings, drafts, notes, photographs, printed matter, and miscellaneous items.  
Arranged alphabetically by type of material.

### BOX 64

*American Society for Microbiology News*, 1976  
Awards and certificates, 1952, 1969, 1988-1997 *See also Oversize*  
Calendar, 1974

### BOX 65

Congratulatory letters from Singer, 1990-1992  
Diary of India trip, 1970  
John Paul II, Pope, 1980  
Photographs  
    Events, 1968, circa 1975- circa 2000  
    Family, circa 1959-1974  
    Laboratory photographs, circa 1959- circa 1963, 1969-1986  
    Portraits, 1967-1996  
*Pines, Maya, The New Human Genetics: A Cell Bank Helps Researchers Fight Inherited Disease*, 1976  
Speeches and lectures  
    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  
(2 folders)
- 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
- 2001
- 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  
(2 folders)
- 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

BOX 68

- “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
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- Dealing with Genes*, with Paul Berg, 1989-1997  
(2 folders)
- Exploring Genetic Mechanisms*, with Paul Berg, 1997-1999
- Genes and Genomes*, with Paul Berg  
Correspondence, 1989-1997  
(2 folders)

BOX 69

## Miscellany, 1952-2002

Container	Contents
	Drafts, 1989-1992 Reviews, 1991-1992 <i>George Beadle, an Uncommon Farmer: The Emergence of Genetics in the 20th Century</i> , with Paul Berg, 1996-2003 <i>Why Black Holes Aren't Black</i> , with Robert Hazen, 1995-2000 Collins Publishers, 1988 Letters to the editor <i>Science</i> , 1990 <i>Washington Post</i> , 1991, 1999
BOX 69	<b>2022 Addition, 1986-2007</b> Correspondence, handwritten and published diary, newspaper clipping, report, speech outline, and trip itinerary relating to Singer's trip to South Africa in 1986.
BOX 69	Yale Corp. trip to South Africa, 1986, 2006-2007
BOX OV 1	<b>Oversize, 1990</b> Certificate. Arranged and described according to the series, container, and folder from which the item was removed.
BOX OV 1	Miscellany Awards and certificates, 1990 (Container 64)