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

Manuscript Division, Library of Congress
Washington, D.C.
2007

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Catalog Record: [https://lccn.loc.gov/mm2004085102](https://lccn.loc.gov/mm2004085102)

Additional search options available at: [https://hdl.loc.gov/loc.mss/eadmss.ms007071](https://hdl.loc.gov/loc.mss/eadmss.ms007071)

Prepared by Erica Haakensen, Elizabeth Suckow, and Michael McElderry

Finding aid encoded by Library of Congress Manuscript Division, 2007
Revised 2010 April
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
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.

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.
Grunberg-Manago, Marianne, 1921-2013--Correspondence.
Hamer, Dean H.
Heppel, Leon Alma, 1912-
Heppel, Leon Alma, 1912- --Correspondence.
Khorana, Har Gobind, 1922-2011--Correspondence.
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)
Women in science.

Places
United States--Social policy.

Occupations
Administrators.
Biochemists.

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


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

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1931, Feb. 15</td>
<td>Born, New York, N.Y.</td>
</tr>
<tr>
<td>1952</td>
<td>Married Daniel Morris Singer</td>
</tr>
<tr>
<td>1956-1958</td>
<td>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.</td>
</tr>
<tr>
<td>1957</td>
<td>Ph.D. in biochemistry, Yale University, New Haven, Conn.</td>
</tr>
<tr>
<td>1958-1974</td>
<td>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.</td>
</tr>
<tr>
<td>1971-1972</td>
<td>Studied simian virus 40 in Ernest Winocour's laboratory as visiting scientist, Department of Genetics, Weizmann Institute of Science, Rehovot, Israel</td>
</tr>
<tr>
<td>1972-1982</td>
<td>Editorial board member, Science magazine</td>
</tr>
<tr>
<td>1973</td>
<td>Cochairman, Gordon Research Conference</td>
</tr>
<tr>
<td>1975</td>
<td>Member of the organizing committee and cosigner of the summary statement of the Asilomar report, International (Asilomar) Conference on Recombinant DNA Molecules</td>
</tr>
<tr>
<td>1975-1979</td>
<td>Head, Nucleic Acid Enzymology Section, Laboratory of Biochemistry, National Cancer Institute, National Institutes of Health, Bethesda, Md.</td>
</tr>
<tr>
<td>1975-1990</td>
<td>Trustee, Yale Corp., Yale University, New Haven, Conn.</td>
</tr>
<tr>
<td>1978</td>
<td>Selected member, Board of Governors and Scientific Academic Advisory Committee, Weizmann Institute of Science, Rehovot, Israel</td>
</tr>
<tr>
<td>1979-1987</td>
<td>Chief, Laboratory of Biochemistry, National Cancer Institute, National Institutes of Health, Bethesda, Md.</td>
</tr>
<tr>
<td>1986</td>
<td>Nominated academician by Supreme Pontiff, Pontificial Academy of Sciences, Vatican City</td>
</tr>
<tr>
<td>1987-1988</td>
<td>Research chemist, National Cancer Institute, National Institutes of Health, Bethesda, Md.</td>
</tr>
<tr>
<td>1988</td>
<td>Awarded Distinguished Presidential Rank Award</td>
</tr>
<tr>
<td>1992</td>
<td>Awarded National Medal of Science</td>
</tr>
<tr>
<td>2007</td>
<td>Awarded National Academy of Science Public Welfare Medal</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Container</th>
<th>Series</th>
<th>Description</th>
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<tbody>
<tr>
<td>BOX 1-19</td>
<td><strong>Correspondence, 1955-2004</strong></td>
<td>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.</td>
</tr>
<tr>
<td>BOX 19-29</td>
<td><strong>Laboratory Notebooks, 1956-1985</strong></td>
<td>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.</td>
</tr>
<tr>
<td>BOX 30-39</td>
<td><strong>Recombinant DNA File, 1972-1980</strong></td>
<td>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.</td>
</tr>
<tr>
<td>BOX 39-60</td>
<td><strong>Subject File, 1950-2002</strong></td>
<td>Correspondence, memoranda, reports, clippings, photographs, printed matter, and miscellaneous items. Arranged alphabetically by subject.</td>
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<tr>
<td>BOX 60-64</td>
<td><strong>Conferences and Meetings, 1963-2002</strong></td>
<td>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.</td>
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<td>BOX 64-69</td>
<td><strong>Miscellany, 1952-2002</strong></td>
<td>Correspondence, speeches and lectures, writings, drafts, notes, photographs, printed matter, and miscellaneous items. Arranged alphabetically by type of material.</td>
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<td>BOX OV 1</td>
<td><strong>Oversize, 1990</strong></td>
<td>Certificate. Arranged and described according to the series, container, and folder from which the item was removed.</td>
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## Container List

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| **BOX 1-19** | **Correspondence, 1955-2004**  
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. |
| BOX 1 | Chroniclal  
1955-1963  
(7 folders) |
| BOX 2 | 1964-1967, May  
(5 folders) |
| 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) |
| BOX 7 | 1977-1978  
(6 folders) |
| BOX 8 | 1979-1980  
(7 folders) |
| BOX 9 | 1981-1982, July  
(6 folders) |
| BOX 10 | 1982, Aug.-1983  
(6 folders) |
| BOX 11 | 1984  
(7 folders) |
| BOX 12 | 1985, Jan.-Aug.  
(7 folders) |
(7 folders) |
(6 folders) |
| BOX 15 | 1987, May-1989  
(7 folders) |
| **BOX 16** | 1990-2002  
(3 folders)  
Alphabetical  
Antonellis, Cori, 2001  
Aposhian, H. Vasken, 1978 |
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<td>Galun, Ethan</td>
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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
Gray, Gail, 1988, undated
Greenfield, Meg, 1990, 1997
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
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
Korenberg, Julie R., 1988
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
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
Speth, Gus, 1989
Stark, George, 1992
Stumpf, Paul, 1988-1989
Tobias, Sheila, 1996
Tsongas, Paul E., 1991
Wasserman, Elga, 2001
Wilmer, Cutler, and Pickering, 1989-1990
Winter, Sidney G., 2000
Wyngaarden, James, 1990
Yochelson, Kathryn, 1991-1992

BOX 19
<table>
<thead>
<tr>
<th>Container</th>
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</table>
| 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. 2, 1957, Feb.-June |
Vol. 6, 1958, Mar.-1959, May, Azotobacter polynucleotide phosphorylase preparation  
Vol. 9, 1958, Sept.-1959, Apr., polynucleotide phosphorylase polymer formation |
| BOX 21 | Box 10, 1959, Jan.-1960, Mar., s-RNA experiments (book 1)  
Vol. 11, 1960, Mar.-Oct., s-RNA experiments (book 2)  
Vol. 12, 1960, June-1962, Apr., oligonucleotides  
Vol. 21, 1962, Feb.-Oct., arsnolysis (book 2) |
Vol. 25, 1961, Jan.-1963, Oct., poly C (cytosine)  
Vol. 27, 1964, June-1966, June, polynucleotide phosphorylase |
Vol. 33, 1969, Apr.-1970, June, adenosine diphosphate-Mg  
Vol. 34, 1970, June-Aug., metals deoxyadenosine diphosphate  
Unnumbered  
1957, Jan.-1958, Mar.  
1961, Jan.-Mar.  
1961, Mar.-Sept.  
1961, Dec.-1962, July |
| BOX 26 | 1971, Sept.-1972, July, simian virus 40  

**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  
A-Mc

**BOX 31**  
N-Z and unsorted

**BOX 32**  
Binders  
(7 folders)

**BOX 33**  
Nos. 3-6, 1976, Nov.-1977, Feb.  
(7 folders)

**BOX 34**  
Nos. 7-9, 1977, Mar.-May  
(7 folders)

**BOX 35**  
No. 10, 1977, May-June  
(2 folders)

Reference material  
1974-1977, Mar. 17  
(6 folders)

**BOX 36**  
1977, Mar. 18-Dec.  
(3 folders)

**BOX 37**  
(6 folders)

**BOX 38**  
(6 folders)

**BOX 39**  
1979, Nov.-1980, undated  
(4 folders)

**BOX 39-60**  
Subject File, 1950-2002  
Correspondence, memoranda, reports, clippings, photographs, printed matter, and miscellaneous items.  
Arranged alphabetically by subject.

**BOX 39**  
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

**BOX 40**  
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
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 Microbiology, Washington, D.C., 1992
(2 folders)
American Chemical Society, 1967
American Philosophical Society, 1990-2001
American Society for Cell Biology
1992-1993

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


Biochemists
Bayev, A. A., 1995
Berg, Paul, 1990-2002

Bhargava, Pushpa M., 1975-1984
Canelakis, Zoe, 1982-1986
Chheda, Girish B., 1968-1969
Fanning, Thomas G., 1988-1993
Frenkel, Gerald, 1978-1983
Karavanov, Alexander, circa 1988-1989
Kharroubi, Akram, 2001
(3 folders)

Lerman, Michael I., 1988-1989
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

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
(2 folders)

BOX 44

BOX 45

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
National Advisory Board for BioLab, 2000-2002
National Conference of Catholic Bishops, Committee on Human Values
<table>
<thead>
<tr>
<th>Container</th>
<th>Contents</th>
</tr>
</thead>
</table>
            (3 folders)  
            Scientists' Institute for Public Information, New York, N.Y., 1989-1993  
            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.  
            Committee meetings  
            Miscellaneous, 2002, undated  
            Observatories Visiting Committee, 2002  
            Correspondence  
            1988-1991 |
            (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    | 1992-2002, undated  
            (2 folders)  
            Cell magazine  
            (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  
            Ponnamparuma, 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 |
<p>| BOX 48    | |</p>
<table>
<thead>
<tr>
<th>Container</th>
<th>Contents</th>
</tr>
</thead>
</table>
| 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  
  Creationism, 1981-1987  
  Czechoslovak Academy of Sciences, Prague, Czechoslovakia, 1988-1990  
Diers, Donna, 1973, 1979  
Egan, Edward M., 2001  
FASEB Journal, 1990-1995  
Gallo, Robert C., 1989-1992  
Geneticists  
  Blasi, Francesco, 1983-1999  
  Martin, Sandra, 2001  
  Moran, John, 2002  
  White, Raymond L., 1987-1988  
  Wolgemuth, Debra, 1988  
Government officials  
  Brown, George E., 1992-1995  
  Gibbons, John H., 1993-1996  
  Ginsburg, Ruth Bader, 1996-2002  
Maxine Singer Papers 18

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 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,” Washington Post, 1989
(2 folders)
Issues in Science and Technology, 1988-1992
Janssen, Paul, 1995-1996
Katz, Dana, 2001
Koelle, George B., 1988
LINE-1 Workshop, 1989-1990
Medical Education for South African Blacks, 1990-1996

Memorial services and tributes
Fredrickson, Donald S., 2002
Giamatti, A. Bartlett, 1989-1990
Hirsh, Jim, 1987

Molecular biologists
Baltimore, David, 1989-2001
(2 folders)
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
<table>
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<tr>
<th>Subject File, 1950-2002</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Container</strong></td>
</tr>
</tbody>
</table>
| **BOX 54** | Maresca, Antonella, 1986-1991, undated  
McCutchan, Thomas F., 1988  
(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 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  
Correspondence  
1988-1991  
1992-2002  
**BOX 55** | (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  
*Newsweek* request, 2001  
Peer reviews for magazines and journals  
*Biochimica et Biophysica Acta*, 1992  
*Cellular and Molecular Biology Letters*, 2000  
*Genetica*, 1991  
*Genome Research*, 2001  
*Genomics*, 1991  
*Journal of Molecular Evolution*, 1989  
*Molecular and Cellular Biology*, 1988-1992 |
Unable to review, 1990-1992
(2 folders)
Postdoctoral fellows
  Clements, Andrew, 1992-1997
  Kalish, Jennifer, 1995-1998
  Krek, Veronica, 2000
  Liu, Kang, 1991-1997
  Logan, David, 1964-1965
  Serman, Drasko, 1972-1973
  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
Science, human genome publication, 2000
Science Park Development Corp., 1988
Scientists and Engineers for Secure Energy, 1988
Searle, Barbara W., 1991
Sharpio, Irwin, 2000-2002
Singer, Stephanie, 1988-1991

BOX 57

Skalka, Ann, 2002
Smithsonian Institution, Washington, D.C.
  General, 2000-2001
  National Museum of Natural History, 2000-2002
  Resident Associate Program, 1988-1989
  Smithsonian World, 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
Trends in Genetics, 1989-1992
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
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

BOX 60

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
(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
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
Sep. 26, Molecular Evolution Workshop, Marine Biological Laboratory, Woods Hole, Mass., 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
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


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. 15, “National Cancer Institute Grand Rounds,” and Fogarty International Center advisory panel meeting, National Institutes of Health, Bethesda, Md., 1993
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
1999
July 22, Fred Spar meeting, New York, N.Y., 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
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
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. 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
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
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. 15-17, dialogue on genetically modified plants, Committee on Science and Human Values, National Conference of Catholic Bishops, Arlington, Va., 2000

2001
Jan. 10-17, Ralph M. Parsons Foundation meeting and Ahmanson Foundation meeting, Los Angeles, Calif., 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
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
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
Dec. 12, Carnegie Institution of Canada Board of Directors meeting, Montreal, Canada, 2001

2002
Feb. 25-Mar. 1, Las Campanas Observatory visit, La Serena, Chile, 2001-2002
Apr. 10-13, Director’s Science Council meeting, National Aeronautics and Space Administration Astrobiology Institute, Moffett Field, Calif., 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
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
Portraits, 1967-1996
Speeches and lectures
1990

1996


Apr. 17, “Behind the Endless Frontier,” American Association for the Advancement of Science, Washington, D.C., 1996


1997


(2 folders)

2000


2001


(2 folders)


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


Maxine Singer Papers
<table>
<thead>
<tr>
<th>Container</th>
<th>Contents</th>
</tr>
</thead>
</table>
|           | “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  
|           | “What Did the Asilomar Exercise Accomplish, What Did It Leave Undone?” *Perspectives in Biology and Medicine*, 2000  
|          | Book reviews  
|          | Books  
|          | (2 folders)  
|          | *Genes and Genomes*, with Paul Berg  
|          | Correspondence, 1989-1997  
|          | (2 folders)  

**Maxine Singer Papers**
<table>
<thead>
<tr>
<th>Container</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Drafts, 1989-1992</td>
</tr>
<tr>
<td></td>
<td>Reviews, 1991-1992</td>
</tr>
<tr>
<td></td>
<td>Collins Publishers, 1988</td>
</tr>
<tr>
<td></td>
<td>Letters to the editor</td>
</tr>
<tr>
<td></td>
<td><em>Science</em>, 1990</td>
</tr>
<tr>
<td>BOX OV 1</td>
<td><strong>Oversize, 1990</strong></td>
</tr>
<tr>
<td></td>
<td>Certificate.</td>
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<tr>
<td></td>
<td>Arranged and described according to the series, container, and folder from which the item was removed.</td>
</tr>
<tr>
<td>BOX OV 1</td>
<td><strong>Miscellany</strong></td>
</tr>
<tr>
<td></td>
<td>Awards and certificates, 1990 (Container 64)</td>
</tr>
</tbody>
</table>