

**Seymour S. Cohen Papers**  
**1938-1990**  
**Mss.Ms.Coll.48**

American Philosophical Society  
1995  
105 South Fifth Street  
Philadelphia, PA, 19106  
215-440-3400  
[manuscripts@amphilsoc.org](mailto:manuscripts@amphilsoc.org)

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## Summary Information

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<b>Repository</b>	American Philosophical Society
<b>Creator</b>	Cohen, Seymour S., (Seymour Stanley), 1917-
<b>Title</b>	Seymour S. Cohen Papers
<b>Date [inclusive]</b>	1938-1990
<b>Call number</b>	Mss.Ms.Coll.48
<b>Extent</b>	26.0 Linear feet
<b>Extent</b>	26 linear feet
<b>Location</b>	LH-B-43-3; LH-B-24-2 (OS)
<b>Language</b>	English
<b>Abstract</b>	Working on bacterial viruses in 1945, Seymour S. Cohen offered the first systematic exploration of the biochemistry of virus-infected cells and of how viruses multiply. His subsequent research included delineating the phenomenon of thymineless death, developing derivatives of ara-A compound, working on RNA synthesis, studying the effects of polyamines on metabolic systems, and studying plant viruses (including viral cations). Much of his research has contributed to the chemical treatment of cancer and viral infections.
<b>Preferred Citation</b>	Cite as: Seymour S. Cohen Papers, American Philosophical Society.

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## Background note

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Seymour Stanley Cohen was born on 30 April 1917 in Brooklyn, New York. He attended Boys' High School in Brooklyn and then received a B.S. from the City College of New York in 1936. He was married in 1940 to Elaine Pear and later had two children, Michael and Sara. Cohen studied biochemistry with Erwin Chargaff at Columbia University, where he received his PhD in 1941. He had an Abbott Laboratory Fellowship from 1940 to 1941. In his thesis, "The Thromboplastic Protein from Lungs," Cohen focused on the isolation of thromboplastin from beef lung and the chemical and immunological characterization of particles of lipoprotein containing RNA.

Cohen had a postdoctoral fellowship at the Rockefeller Institute, where he worked with Wendell M. Stanley on plant viruses from 1941 to 1942, funded by the National Research Council. He returned to Columbia University from 1942 to 1943 as a research associate in biochemistry. While there, he did research for the Office of Scientific Research and Development.

In 1943, Cohen left New York for a Johnson Foundation fellowship at the University of Pennsylvania. In 1945, he became Instructor in Pediatrics at the University of Pennsylvania's Children's Hospital and was subsequently named Assistant Professor of Biochemistry in Pediatrics in 1947. Cohen received a Guggenheim Fellowship during the next year, which he used to study at the Pasteur Institute with André Lwoff and Jacques Monod from September 1947 to August 1948. During the summers of 1951 and 1952, he received a Lalor Foundation fellowship for study at the Marine Biological Laboratory in Woods Hole, Massachusetts.

At the University of Pennsylvania, Cohen became Associate Professor of Biochemistry and of Pediatrics in 1950 and then Professor of Biochemistry and of Pediatrics in 1954. During a full career at the University of Pennsylvania, Cohen held two professorships: the American Cancer Society Charles Hayden Professorship of Biochemistry (1957-1971) and the Hartzell Professorship of Therapeutic Research (1963-1971). In addition, he was also Chairman of the Department of Therapeutic Research from 1963 to 1971. During this period, Cohen was a visiting professor at the Radium Institute in 1967, gave the Jesup Lectures at Columbia University in 1967, and was a visiting professor at the Collège de France in 1970.

In 1971, Cohen left the University of Pennsylvania for the University of Colorado in Denver, where he became Professor in the School of Medicine (until 1972), as well as the American Cancer Society Professor of Microbiology (until 1976). During the time from 1973 to 1974, Cohen was a Fogarty Scholar at the National Cancer Institute, as well as a Smithsonian Scholar. In 1974, he was a visiting professor at Hadassah Medical School in Israel and at the University of Tokyo.

In 1976, Cohen left the University of Colorado for the State University of New York at Stony Brook, where he was named Distinguished Professor of Pharmacological Sciences and American Cancer Society Professor. From 1982 to 1983, he was a Guggenheim Fellow at the Pasteur Institute and a Fellow at the National Humanities Center in North Carolina (he also held the latter position in 1985). In 1983, he was a Lady Davis Fellow at the Hebrew University of Jerusalem. In 1985, Cohen became Emeritus Professor

of Pharmacological Sciences at the State University of New York at Stony Brook. He was a Visiting Presidential Scholar at the University of California in San Francisco in 1988.

Cohen received many awards and honors during his career. He received the Eli Lilly Award in bacteriology and immunology in 1951 for research on the biochemical relationship between viruses and the cells that they infect. He received the Mead Johnson Award given by the American Academy of Pediatrics in 1952. He received the Newcomb Cleveland Award of the American Association for the Advancement of Science in 1955 for the best paper presented at the 1955 meeting. The paper, "Molecular Bases of the Parasitism of Some Bacterial Viruses," showed, by studying the metabolic changes in virus infections of bacteria, that molecules of mutant organisms (viruses and bacteria) can be distinguished chemically.

Cohen was one of two scientists in the country in 1957 to receive a lifetime grant from the American Cancer Society for support of his continuing research interests. He also received the French Society of Biological Chemists Medal in 1964; the Borden Award of the American Association of Medical Colleges in 1967; an honorary degree from the Université Catholique de Louvain in 1972; the Passano Award in 1974; the Karl August Forster Prize of the Mainz Academy of Science and Letters in 1978; a medal from the Alumni Foundation of the City College of New York in 1978; and an honorary degree from the University of Kuopio in 1982. Furthermore, he was named an honorary citizen of Montpellier, France in 1984, in recognition of his scientific achievements. He was nominated several times for the Nobel Prize and is therefore included among the group of people who hold the "Forty-First Chair" (scientists deemed worthy candidates for the Nobel Prize by the Nobel committee).

Cohen was on the editorial boards of *Virology* from 1955 to 1960; the *Journal of Biological Chemistry* from 1960 to 1965; *Bacteriological Reviews* from 1969 to 1973; and the *Journal of Bacteriology*. He served as Chairman of the Committee on the History of Biology at the Marine Biological Laboratory, as well as Trustee of the Marine Biological Laboratory from 1968 to 1985. He was a member of the board of scientific consultants of the Sloan-Kettering Institute (until 1967) and was Chairman of the Council for Analysis and Projection of the American Cancer Society from 1971 to 1975.

Cohen is a fellow of the American Association for the Advancement of Science; an honorary member of the Société Française de Microbiologie and of the Serbian Academy of Sciences and Arts (1972); and a member of the American Academy of Arts and Sciences (1963), the American Chemical Society, the National Academy of Sciences (1967), the New York Academy of Sciences (1949); the Society of Bacteriology, the Society of Biological Chemists, and the Society of General Physiologists (President, 1968).

Cohen's work on bacterial viruses, begun in 1945, was the first systematic exploration of the biochemistry of virus-infected cells and of how viruses multiply. In 1952, he and Gerard R. Wyatt discovered that one of the T-even viruses that infect *E. coli* contained a new pyrimidine, 5-hydroxymethyl cytosine (HMC), in its DNA, instead of the normal cytosine (C). Later, in 1957, he and Joel G. Flaks found that the enzyme that induced this pyrimidine was not found in uninfected cells. They reasoned that the virus caused the *E. coli* cell to produce the enzyme that would then induce the formation of HMC. This discovery made it possible to develop drugs that would inhibit the enzymes induced by the virus without harming the healthy cells.

Other research during Cohen's career (his bibliography contains over 250 publications) included delineating the phenomenon of thymineless death; developing derivatives of ara-A compound; working

on RNA synthesis; studying the effects of polyamines on metabolic systems; and studying plant viruses (including viral cations). Much of his teaching and many of the review papers were concerned with problems of comparative biochemistry and biochemical evolution.

Cohen has also published works on the history of science, including an article about Joseph Priestley and Thomas Cooper ("Two Refugee Chemists in the United States, 1794: How We See Them") in the *Proceedings of the American Philosophical Society* in 1982 and "Balancing Science and History: A Problem of Scientific Biography" in *History and Philosophy of the Life Sciences* in 1986.

Cohen lives in Woods Hole, Massachusetts, where he is currently working on a text on polyamines and on a biography of the chemist, Thomas Cooper.

## Scope & content

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The Seymour S. Cohen Papers (1938-1990) contain correspondence, subject files, manuscripts of published and unpublished works by Cohen, manuscripts and research notes by students and colleagues, research notes by Cohen, and photographs, which document Cohen's career as a biochemist.

The papers (52 boxes; 25.5 linear feet) are divided into six series:

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Series I.	Correspondence, 1940-1990	(23 boxes; 11.5 linear feet)
Series II.	Subject Files, 1944-	(2 boxes; .75 linear feet)
Series III.	Works by Cohen, 1941-	(2 boxes; 0.5 linear feet)
Series IV.	Works by Others, 1940-1983	(15 boxes; 7 linear feet)
Series V.	Research Notes, 1938-1980	(12 boxes; 5.5 linear feet)
Series VI.	Photographs, 1941-1983	(1 box; 0.25 linear feet)
Series II.	Oversize	(1 folder; 5 items)

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Oversized materials follow the same series arrangement as noted above. Cross-referencing to oversized material appears on the folders in the standard sized boxes. Photographs and negatives have been removed from Series I-III and placed in Series VI (photographs in Series IV and V have been left with the research notes). Cross-references appear in the original series.

## Administrative Information

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### Publication Information

American Philosophical Society 1995

## Provenance

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### Acquisition Information

The Cohen Papers were donated by Seymour S. Cohen in 1987 (Accession 1987-710ms). An addition to the collection was made in 1990 and in 1995 (Accession 1995-739ms). It is expected that further additions will be made to this collection.

### Processing Information

Catalogued by Miriam Spectre, 1995.

## Related Materials

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### Separated Material

Reprints have been moved to the printed materials collection of the APS library. If a reprint was found as an enclosure, a photocopy of the title page was filed in its place. To retrieve reprints, consult the card catalog for printed materials.

## Indexing Terms

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### Corporate Name(s)

- American Association for Cancer Research.
- American Cancer Society.
- Children's Hospital of Philadelphia
- Commonwealth Fund..
- University of Pennsylvania.
- Upjohn Company.



## Genre(s)

- Laboratory notebooks
- Laboratory notes

## Personal Name(s)

- Anderson, Thomas Foxen, 1911-1991
- Bachrach, Uriel, 1926-
- Behrens, Otto Karl, 1911-
- Beljanski, Mirko
- Bendich, Aaron, 1917-1979
- Benzer, Seymour
- Berg, Paul, 1926-
- Borek, Ernest, 1911-1986
- Brachet, J., (Jean), 1909-
- Bukantz, Samuel C
- Chargaff, Erwin
- Davis, Bernard D., 1916-
- Delbrück, Max
- Fox, Jack Jay, 1916-
- Fruton, Joseph S., (Joseph Stewart), 1912-
- Goldfarb, David
- Hershey, A. D., (Alfred Day), 1908-
- Horecker, Bernard L. (Bernard Leonard), 1914-
- Kabat, Elvin A. (Elvin Abraham), 1914-
- Kanazir, Dus#an, 1921-
- Khouvine, Yvonne, d1981
- Kornberg, Arthur, 1918-
- Lauffer, Max A. (Max Augustus), 1914-
- Lederberg, Joshua
- Loeb, Marilyn Rosenthal, 1930-
- Lucas-Lenard, Jean
- Luria, S. E., (Salvador Edward), 1912-1991
- Macura, Anna B
- Monod, Jacques, 1910-1976
- Pauling, Linus, 1901-1994
- Schabel, Frank Milton, Jr. 1918-1983
- Sonneborn, T.M., (Tracy Morton), 1905-1981
- Spiegelman, Solomon, 1914-
- Stanley, Wendell M., (Wendell Meredith), 1904-
- Weed, Lawrence L

- Weigle, Jean
- Wyatt, Gerard Robert, 1925-

## Subject(s)

- Bacterial genetics.
- Cancer--Research
- Nucleic acids
- Polyamines
- Viral genetics

## Other Descriptive Information

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This collection contains materials which relate to the history of genetics.

Author	Format	Date
Anderson, Thomas Foxen	Correspondence (3 items)	1946, 1967
Chargaff, Erwin	Correspondence (72 items)	1942-1989
Delbruck, Max	Correspondence (24 items)	1946-1975
Hershey, Alfred Day	Correspondence (30 items)	1952-1972
Hollaender, Alexander	Correspondence (2 items)	1955, 1972
Lederberg, Joshua	Correspondence (19 items)	1956-1984
Luria, Salvador Edward	Correspondence (24 items)	1947-1969, 1984
Oak Ridge National Laboratory	Correspondence (16 items)	1947-1976
Pauling, Linus	Correspondence (4 items)	1971

Sonneborn, Tracy M.

Correspondence (2 items)

1962-1963

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## Series I. Correspondence

## Collection Inventory

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Series I. Correspondence	1940-1990	11.5 linear feet
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Incoming and outgoing manuscript and typescript letters, carbons, telegrams, and postcards generated during Cohen's career. Series I is arranged alphabetically by correspondent's name and then chronologically within each folder.

When a correspondence file includes letters to a third party (i.e., not Cohen), the name is indicated on the container list by using an indent under the folder title.

Unidentified correspondence has been filed as "Unidentified" and is arranged chronologically. Enclosed manuscripts have been removed from this series and placed in Series III or IV as appropriate. As with the reprints, a photocopy of the title page was filed with the original letter. Cross-references are also given for enclosed photographs, which have been removed to Series VI. Letters of reference are filed under the name of the person who is the subject of the letter.

The bulk of this series covers the 1960s to the 1970s. Correspondents include biochemists, chemists, geneticists, students, and publishers. Among the topics covered in this series are: research on polyamines and nucleic acids; conferences; the publishing of journal articles; and participation in professional societies. There is correspondence concerning Cohen's affiliations with the American Association for Cancer Research, the American Cancer Society, the Children's Hospital of Philadelphia, the National Academy of Sciences, the University of Pennsylvania, and the Upjohn Company. Also in this series is correspondence about Cohen's grants from the Commonwealth Fund and the National Institutes of Health. Notes and telegrams congratulating Cohen on being elected to the National Academy of Sciences in 1967 are filed in this series under "National Academy of Sciences--Congratulations."

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Abdel-Monem, Mahmoud M.	1976-1977	Box 1
Academic Press, Inc.	1951-1959, 1971	Box 1
Académie Serbe des Sciences et des Arts	1972	Box 1
	1959	Box 1

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## Series I. Correspondence

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The Academy of Natural Sciences of  
Philadelphia

Academy of Science and Letters (Germany)	1978	Box 1
Acton, Edward M.	1976	Box 1
Adelberg, Edward	1956-1957, 1981-1982	Box 1
Adis Press	1980	Box 1
Adjangba, M.S.	1963	Box 1
Adler, H.I.	1967	Box 1
Advances in Enzyme Regulation	1971	Box 1
Advances in Virus Research	1977-1978	Box 1
Lauffer, Max A.		
Agarwal, Ram P.	1983	Box 1
Agranoff, Bernard W.	1968	Box 1
Alarcon, R.A.	1971	Box 1
The Albany Medical College of Union University	1961-1962	Box 1
Albert, Adrien	1977-1981, n.d.	Box 1
Alberto, Pierre	1976	Box 1
Alford, Charles	1975	Box 1
Alper, Tikvah	1968	Box 1
Altman, Arie	1980	Box 1
-See also Ser.I, The Hebrew University of Jerusalem		

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## Series I. Correspondence

Altschul, A.M.	1970	Box 1
Aluminum Company of America	1949	Box 1
Ambler, Richard	1973	Box 1
Ambron, Richard T.	1981-1982	Box 1
American Academy of Arts and Sciences	1963	Box 1
American Academy of Pediatrics	1952	Box 1
American Association for Cancer Research	1964-1979	Box 1
American Association for the Advancement of Science	1964-1965, 1972	Box 1
American Association of Plastic Surgeons	1975	Box 1
American Association of University Professors	1989	Box 1
American Cancer Society, Inc.		Box 1
Folder #1	1957-1969	Box 1
Folder #2	1970-1972	Box 1
Folder #3	1973	Box 2
Folder #4	1974	Box 2
Folder #5	1975 - May 1976	Box 2
Folder #6	1976-1977	Box 2
Folder #7	1978-1985	Box 2
American Chemical Society	1964-1967	Box 2
American Chemical Society News Service	1950	Box 2

## Series I. Correspondence

American Institute of Biological Sciences	1962		Box 2
-See also Ser.II, same title			
The American Museum of Natural History	1959-1964		Box 2
Leung, Hazel Barner; Tono, Henrique			
-See also Ser.I, Leung, Hazel Barner			
-See also Ser.I, Tono, Henrique			
American Philosophical Society	1972		Box 2
American Scientist	1970-1982		Box 2
American Society for Biochemistry and Molecular Biology	1990		Box 2
American Society for Cell Biology	1963, 1971		Box 2
American Society for Microbiology	1963-1966, 1989		Box 2
Luria, Salvador E.			
American Society for Virology	1981		Box 2
American Society of Biological Chemists	1946, 1968-1984		Box 2
American Society of European Chemists and Pharmacists	1958		Box 2
American Society of Naturalists	1954		Box 2
Amos, Harold	1978		Box 2
Analytical Biochemistry	1967, n.d.		Box 2
Anderson, Thomas Foxen	1946, 1967	3.0 Item(s)	Box 2
Annual Review of Biochemistry	1962-1963		Box 2
Apirion, David	1973		Box 3

## Series I. Correspondence

Aposhian, H. Vasken	1965-1980	Box 3
Appel, Pearl	1956-1957	Box 3
Appleby, Aaron	1971	Box 3
Arad, Shoshana	1981-1982	Box 3
Arroyave, Guillermo	1972	Box 3
Aso, K.	1958	Box 3
Association of American Medical Colleges	1967	Box 3
-See also Ser.II, Borden Award		
Astrachan, Larry	1968	Box 3
Atassi, M.Z.	1982	Box 3
Atherly, Alan G.	1972	Box 3
Atkinson, Maurice	1969	Box 3
Atwood, K.C.	1957-1958	Box 3
Austrian, Robert	1972, 1975	Box 3
Avadhani, Narayan G.	1976-1977	Box 3
Axelrod, Bernard	1956-1959	Box 3
Bacchi, Cyrus J.	1977-1986	Box 3
Bachmann, Barbara J.	1972-1973	Box 3
Bachrach, Uriel	1967-1986, n.d.	Box 3
Bacteriological Reviews	1948, 1964-1973	Box 3
Bagni, Nello	1979	Box 3
Baker, B.R.	1959-1973, n.d.	Box 3



## Series I. Correspondence

Baker, Carl G.	1982	Box 3
Baldwin, Robert L.	1972-1973	Box 3
Balint, Robert Frederick	1979-1985	Box 3
Science		
-See also Ser.I, Virology		
Balis, M. Earl	1965, 1967, 1977	Box 3
Ballou, Clinton E.	1956	Box 3
Balsam, Alan	1960	Box 3
Banerjee, Gouri	1958-1959	Box 3
Barclay, Barry J.	1982	Box 3
Bard, Raymond C.	1963-1973	Box 3
Barner, Hazel		Box 3
-See Ser.I, Leung, Hazel Barner		
Barness, Lewis A.	1974	Box 3
Basso, Luiz Carlos	1974-1975	Box 3
Bawden, F.C.	1952	Box 3
Baylor, Martha	1967	Box 3
Bazile, Gerard	1981	Box 3
Beam, Carl	1981	Box 3
Beck, William S.	1965-1966, 1978	Box 3
Becker, Yechiel	1969, 1974	Box 3
Beckwith, Jon	1987	Box 3

## Series I. Correspondence

Behrens, Otto K.	1949-1952	Box 3
Beljanski, Mirko	1969-1970	Box 3
Ben-David, Joseph	1976	Box 3
Bender, Myron L.	1984	Box 3
Bendich Aaron	1956-1979	Box 3
Bendich, Arnold	1980-1981	Box 3
Benesch, Reinhold	1967-1969, 1984	Box 3
-See also Ser.I, Benesch, Ruth E.		
Benesch, Ruth E.	1972-1990	Box 3
Benesch, Reinhold; Jones, Mary Ellen		
Benison, Saul	1979, 1982	Box 3
Benzer, Seymour	1956	Box 3
Benzing, David	1974	Box 3
Berg, Paul	1981, 1987	Box 3
Berger, Robert L.	1986	Box 3
Bergquist, P.L.	1958	Box 3
Berne, Robert M.	1977, 1984, 1988	Box 4
Berns, Donald S.	1973-1978	Box 4
Bertino, Joseph R.	1978, 1982	Box 4
Bessman, Maurice	1961, 1969	Box 4
Beumer, Jacques	1953	Box 4
some in French		

## Series I. Correspondence

Biezunski, Naomi	1982-1983	Box 4
Biochemical Pharmacology	1975, n.d.	Box 4
Biochemical Research Foundation		Box 4
-See Ser.I, Mudd, Stuart		
Biochemistry	1963-1981	Box 4
Bioessays	1987	Box 4
Bioscience	1979, 1981, n.d.	Box 4
Biosis	1986	Box 4
Birnbaum, Nathan	1973	Box 4
Bishop, David W.	1968	Box 4
Bitonti, Alan J.	1988	Box 4
Haskins, Caryl P.; Tabor, Herbert; Trager, William		
-See also Ser.I, Haskins, Caryl P.		
-See also Ser.I, Proceedings of the National Academy of Sciences		
Black, Lindsay	1971-1974	Box 4
Blecher, Melvin	1963	Box 4
Bloch, Alexander	1974	Box 4
Bloch, Konrad	1962-1968	Box 4
Blough, Herbert A.	1969, 1971	Box 4
Bludman, Peter	1980-1981	Box 4
Bogdanov, Stephen	1974	Box 4
Bolton, Philip H.	1978	Box 4

## Series I. Correspondence

Bongiovanni, Alfred M.	1970	Box 4
Bonner, David M.	1963	Box 4
Borek, Ernest	1965-1983, n.d.	Box 4
Wollman, Elie -See also Ser.I, Wollman, Elie		
Borenfreund, Ellen	1980	Box 4
Boshes, Benjamin	1976	Box 4
Boulding, Kenneth E.	1974	Box 4
Bourgeois, Claude some in French	1972	Box 4
Bovet, Josie	1974-1980, n.d.	Box 4
Boyle, Stephen M.	1981-1983	Box 4
Brachet, Jean	1951-1979	Box 4
Brada, Zbynek	1984-1985	Box 4
Brailovsky, Victor	1984	Box 4
Brandeis University	1955-1985	Box 4
Breen, Dorothy	1967	Box 4
Breitman, Ted R.	1966	Box 4
Brewer, Carl R.	1949	Box 4
Brightfield, L.O.	1963	Box 4
Brodie, Bernard B.	1974	Box 4
Brooklyn College	1980-1981	Box 4

## Series I. Correspondence

Broom, Arthur D.	1984	Box 4
Brown, D.M.	1965	Box 4
Brown, Fred	1965-1990	Box 4
Brown, George B.	1975-1983, n.d.	Box 4
Brynes, Paul J.	1982	Box 4
Bublitz, Clark	1977	Box 4
Buchanan, Jack	1965	Box 4
Buck, Clayton A.	1966-1978, n.d.	Box 4
-See also Ser.I, Kansas State University		
Bueding, Ernest	1962, 1978	Box 4
Buetow, Dennis E.	1974-1975	Box 4
Bukantz, Samuel C.	1942-1943	Box 4
Bulkley, Bernadine H.	1967	Box 4
Burton, K.	1969	Box 4
Busch, Harris	1980, 1989	Box 4
-See also Ser.I, Glazer, Robert I.		
Bussard, Alain	1950	Box 4
some in French		
Butcher, B.H.	1951	Box 4
Butler, John A.V.	1955, 1964, 1966	Box 4
Butler University	1961, 1986-1987	Box 4
Caldarera, Claudio Marcello	1979-1985	Box 4

## Series I. Correspondence

Calvin, Melvin		Box 4
-See Ser.I, International Union of Biochemistry		
Campbell, Robert A.	1976-1991	Box 4
Campbell, William C.	1983	Box 4
Canadian Broadcasting Corporation	1959	Box 4
Cancer Research	1964, 1974-1978, n.d.	Box 4
Plunkett, William K., Jr. -See also Ser.I, Plunkett, William K., Jr.		
Canellakis, E.S.	1977-1984	Box 4
Cantarow, Abraham	1971	Box 5
Cantoni, Giulio L.	1959-1981	Box 5
Cantor, Charles R.	1976-1977	Box 5
Cardeilhac, Paul T.	1963-1977	Box 5
Cardoso, Jose Pedro	1980	Box 5
Carpenter, Edward J.	1983	Box 5
Mountford, Kent		
Carrasco, Luis	1985	Box 5
Carter, Charles E.	1949	Box 5
-See also Ser.I, Oak Ridge National Laboratory		
Carter, William A.	1978	Box 5
Caspar, Donald L.D.	1964	Box 5
Caspari, Ernst W.	1967	Box 5

## Series I. Correspondence

Rogers, Stanfield

-See also Ser.I, Rogers, Stanfield

Cass, Carol E.	1977-1978	Box 5
Cavalieri, Liebe Frank M.	1970, 1975	Box 5
Centre Internationale de Recherche sur le Cancer	1968	Box 5
Centre Interuniversitaire de Recherches Enzymologiques	1967	Box 5
Centre National de la Recherche Scientifique some in French	1984	Box 5
Cerami, Anthony	1977-1978	Box 5
Chae, Chi-Bom	1985	Box 5
Chaikelis, Alexander	1964	Box 5
Chambers, Leslie A.	1946-1951	Box 5
Chambon, Pierre	1990	Box 5
Chance, Britton	1962-1978, n.d.	Box 5
Chantrenne, H.	1958	Box 5
Charalampous, Frixos C.	1960	Box 5
Chargaff, Erwin	1942-1989	72.0 Item(s) Box 5

-See also Ser.I, Columbia University

-See also Ser.III, "Erwin Chargaff: Scientist"

**Indexing Terms**

## Series I. Correspondence

**Subject(s)**

**B**acteriophage and viral genetics  
**B**iochemistry and organic chemistry  
**B**iographical and personal data  
**C**onferences and symposia -- Chargaff, Erwin  
**C**ongratulations, greetings, thanks -- Charles-Leopold Mayer Prize  
**H**onors -- Nobel Prize  
**L**aboratory techniques, equipment  
**L**ectures, public speaking  
**P**ublication  
**R**ecommendations  
**S**cientific organizations, meetings, programs  
**U**npublished manuscripts, notes, etc.

Chemical and Engineering News	1950	Box 5
Chen, Chung-Tai Jack	1978-1983	Box 5
Chen, Kuang Yu	1986, 1989	Box 5
Cheng, Yung-Chi (Tommy)	1977-1978	Box 5
Chiba University	1990	Box 5
Ch'ien, Lawrence T.	1971	Box 5
The Children's Hospital of Philadelphia	1945-1973	Box 5
Chou, David Ting-Chao	1975-1984	Box 5
The Ciba Foundation	1955, 1970-1971	Box 5
The City College	1976-1990	Box 5
The City University of New York	1979	Box 5



## Series I. Correspondence

Clark, Betsy	[1968]	Box 5
Clark, Eloise E.	1963-1983	Box 5
Clark, Jeffrey L.	1976	Box 5
Levin, Eugene G.		
Clark, Joseph S.	1966-1967	Box 5
Clarke, Hans T.	1945	Box 5
Claude, Albert	1968	Box 5
Cline, Richard E.	1958	Box 5
Green, Maurice		
Cluff, Leighton E.	1979	Box 5
Cocito, Carlo G.	1971-1984	Box 5
-See also Ser.I, Université Catholique de Louvain		
Cohen, D. Walter	1972	Box 6
Cohen, Georges N.	1986, [198-]	Box 6
Cohen, Philip P.	1963	Box 6
Cohen, Sasson	1980	Box 6
Cohen, Stanley	1974-1983	Box 6
Cohn, Melvin	1950-1951	Box 6
Cohn, Mildred	1962-1974	Box 6
Cohn, Waldo E.	1950-1970	Box 6
-See also Ser.I, Progress in Nucleic Acid Research and Molecular Biology		
Cold Spring Harbor Laboratory	1966	Box 6

## Series I. Correspondence

Collège de France	1969-1971	Box 6
Jacob, François		
The College of Physicians of Philadelphia	1965	Box 6
Coller, Barry S.	1986	Box 6
Colorado Regional Cancer Center	1974	Box 6
Colowick, Sidney P.	1972, 1975	Box 6
Columbia University	1940-1976	Box 6
Chargaff, Erwin; Hayashi, Teru		
Columbia University Press	1966-1984	Box 6
Coman, Dale Rex	1972, 1987, n.d.	Box 6
Committee on Space Research	1962	Box 6
some in French		
The Commonwealth Fund		Box 6
Folder #1	1948-1956	Box 6
Folder #2	1957-1986	Box 6
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Cyclo Chemical Corporation	1956	Box 6
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Daniels, Farrington, Jr.	1963	Box 6
Darby, William J.	1977	Box 6
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**Indexing Terms****Subject(s)**

☉ Conferences and symposia

⊙ Oak Ridge National Laboratory

☐ Radiation genetics

☐ Requests for reprints

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-See also Ser.I, International Union of Biochemistry		

**Indexing Terms****Subject(s)**

**A**very, Oswald Theodore  
**B**acteriophage and viral genetics  
**B**iochemistry and organic chemistry  
**C**old Spring Harbor Laboratory  
**C**onferences and symposia  
**G**enetics Society of America -- Golden Jubilee  
**H**istory of biology, especially genetics  
**M**olecular genetics  
**R**ecommendations  
**R**equests for reprints

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-See also Ser.I, Virology		
<b>Indexing Terms</b>		
<b>Subject(s)</b>		
Bacteriophage and viral genetics		
Biochemistry and organic chemistry		
Congratulations, greetings, thanks -- National Academy of Sciences		
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**Indexing Terms****Subject(s)**

**B**acteriophage and viral genetics  
**B**iochemistry and organic chemistry  
**C**ancer, chemotherapy  
**C**onferences and symposia  
**H**ollaender, Alexander  
**L**ectures, public speaking  
**O**ak Ridge National Laboratory  
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Balint, Robert F.; Luria, Salvador E.

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Wainwright, Stanley D.	1951-1954	Box 23
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Washington-Baltimore Enzyme Club	1961-1962	Box 23
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Watson, James D.	1962	Box 23
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Westphal, O.	n.d.	Box 23
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Whitehead, R.G.	1970	Box 23
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Wu, Cheng-Wen	1982	Box 23
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-See also Ser.I, Weed, Lawrence L.		
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## Series II. Subject Files

<b>Series II. Subject Files</b>	<b>1944-</b>	<b>2 boxes; .75 linear feet</b>
Clippings, announcements and programs for lectures, some syllabi for courses, grant applications to the National Institutes of Health, meeting minutes for the American Cancer Society, research reports to the Commonwealth Fund, and a small amount of information about Scientists and Engineers for Johnson. Also in this series are Cohen's bibliography and some biographical material on Cohen, including descriptions of his research projects.		
American Academy of Arts and Sciences		Box 24
-See Oversized		
American Association for Cancer Research	1971-1978, n.d.	Box 24
American Cancer Society, Inc.		Box 24
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American Institute of Biological Sciences	1962	Box 24
American Physiological Society	1977, n.d.	Box 24
Archives of Biochemistry and Biophysics	n.d.	Box 24
Bacteriological Reviews	1969	Box 24
Bibliography	1986	Box 24
Biochimica et Biophysica Acta	1967-1982	Box 24
Biographical Material	1960-1964, n.d.	Box 24
Borden Award	[1967]	Box 24
-See also Ser.I, Association of American Medical Colleges		
	1984	Box 24

## Series II. Subject Files

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 "A Cellular System for the Study of Autumn"--Announcement for lecture
 

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Children's Hospital of Philadelphia	1947-1972, n.d.	Box 24
Clippings	1950-1985, n.d.	Box 24
Columbia University	1967	Box 24
The Commonwealth Fund	1948-1964, n.d.	Box 24
Courses	1953-1969	Box 24
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The Dreyfus Research Laboratories	1965	Box 24
European Molecular Biology Organization	1973	Box 24
John Simon Guggenheim Foundation	1981	Box 24
The Hebrew University of Jerusalem	1972, 1979	Box 24
The Heritage of Copernicus	1972	Box 24
Howard University	1965	Box 24
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International Congress for Virology	1968	Box 24
Journal of Medicinal Chemistry	n.d.	Box 24
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National Academy of Sciences	1971-1986	Box 24
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The National Institute for Medical Research	1964	Box 25

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-See Oversized		
The Rockefeller University	1966	Box 25
Saint Jude Children's Research Hospital	1972-1973	Box 25
Scientists and Engineers for Johnson	1964	Box 25
Serbian Academy of Sciences and Arts	1972	Box 25
Sigma Xi	1950	Box 25
Société de Chimie Biologique	1964	Box 25
in French		
The Society of American Bacteriologists	1951	Box 25
The Society of General Physiologists	1967-1971, n.d.	Box 25
South Africa--Human rights	1985	Box 25
State University of New York at Stony Brook	1974-1984	Box 25
Symposium on Microbiology and Medical Research	n.d.	Box 25
United States Department of Agriculture	1981-1982	Box 25
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## Series II. Subject Files

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 United States. Office of Scientific Research  
and Development
 

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United States. War Manpower Commission	1944	Box 25
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Université Catholique de Louvain	1972	Box 25
in French		

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Université de Bordeaux--Announcement for lecture		Box 25
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-See Oversized

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L'Université Libre de Bruxelles	1967	Box 25
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-See also Oversized

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University of Bologna--Announcement for lecture		Box 25
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-See Oversized

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University of Colorado	1971-1975, n.d.	Box 25
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University of Pennsylvania	1962-1971, n.d.	Box 25
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Vietnam	1968	Box 25
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Virus-Induced Enzymes--Reviews	1968-1969	Box 25
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The Weizmann Institute of Science	1983	Box 25
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## Series III. Works by Cohen

## Series III. Works by Cohen

1941-

2 boxes; 0.5  
linear feet

Abstracts, typescripts, and some lectures. Some of the works were done with students (e.g., Hazel Barner Leung) and colleagues (e.g., Thomas F. Anderson). In these cases, cross-references have been made in Series IV. Included among the works is a lecture on Erwin Chargaff's work that Cohen gave when Chargaff was presented with the Carl Neuberg Medal in 1958. Also in this series is a manuscript of comments that Cohen wrote about his published papers while looking over the laboratory notebooks that are now contained in Series IV and V.

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"The Binding of Polyamines and Ethidium to tRNA"--with Celia E. Freda	[197-]	Box 26
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-See also Ser.V, "tRNA Studies. Binding of Spermidine, Ethidium..."

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"A Biochemical Study of the Mutual Reactivation of Ultraviolet-Inactivated Bacteriophages in Their Host Bacteria"-- Abstract with Rachel Arbogast	28 Dec. 1949	Box 26
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"Cancer Chemotherapy: A Study in Cellular Karate, Judo and Acupuncture"--Lecture at St. Jude Children's Research Hospital's 10th Anniversary	17 Nov. 1972	Box 26
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"Chemical Studies in Host-Virus Relationships. I. Effect of Bacteriophage Adsorption on Multiplication of Host, E. Coli B."--Abstract with Thomas F. Anderson	1946	Box 26
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"Chemical Studies in Host-Virus Relationships. II. Chemical Simulation of the Interference Phenomenon by 5-Methyl Tryptophane"--Abstract with Thomas F. Anderson	1946	Box 26
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## Series III. Works by Cohen

"Chemical Studies on r+ and r Strains of Bacterial Viruses. I. Glucose Contents of Preparations of These Viruses and Their Isolated DNAs"	[1956]	Box 26
"Comments by S.S. Cohen on the Published Papers"	Jul.-Dec. 1986	Box 26
"The Comparative Biochemistry of Virus Multiplication"--Abstract	n.d.	Box 27
"D-Arabinosyl Nucleosides and the Sponge, <i>Cryptotethya Crypta</i> "--with Hazel Barner Leung	[196-]	Box 27
"Debt to Foreign Research"	5 Nov. 1965	Box 27
Enzyme, Antigen, and Virus: A Study of Macromolecular Pattern in Action by Sir F. Macfarlane Burnet--Review	[1957]	Box 27
"Enzymes Specified by DNA Phages"	[1971]	Box 27
"Erwin Chargaff: Scientist"	19 Mar. 1958	Box 27
"Evolutionary Biochemistry and the Evolution of Biochemistry"	[1963]	Box 27
"A Hemostatic and Its Application"	1944	Box 27
"Hope for All--In a Hospital"	n.d.	Box 27
"The Localization of Spermidine Synthase in Healthy and Virus-Infected Chinese Cabbage Protoplasts"--Abstract with Ram K. Sindhu	1984	Box 27
	n.d.	Box 27

## Series III. Works by Cohen

"Metabolic Requirements for the Lethality of Bleomycin in E. Coli"--Abstract with Josephine I		
"Molecular Bases of the Parasitism of Some Bacterial Viruses"	27 Dec.	Box 27
"The Molecular Biology of Viruses"--Introductory Remarks at Symposium at University of Alberta	Jun. 1966	Box 27
"The Nutritional Requirements of Virus Multiplication and the Chemotherapy of Viral Infections"--with Catherine B. Fowler	n.d.	Box 27
"On a Chemical Degradation of Desoxyribose Nucleic Acid"		Box 27
-See Ser.V, "Attempted Hydrolysis of NA by Dizomethane; Methylation of Nucleotides"		
"On the Introduction of Radioactive Tracers into Virology"	[1965]	Box 27
"Polyamines and Macromolecular Polymer Synthesis During the Growth of Anacystis Nidulans"--with Seethala Ramakrishna	[197-]	Box 27
"Properties of Ultracentrifugally Isolated Viruses Causing Tobacco Necrosis"--with Wendell M. Stanley	[ca. 1941]	Box 27
-See also Ser.V, "Isolation and Characterization of Tobacco Necrosis Viruses"		
-See also Ser.VI, "Properties of Ultracentrifugally..."		
"Propylamine Transferases in the Healthy and Turnip Yellow Mosaic Virus-Infected Chinese Cabbage Leaves"--Abstract with Ram K. Sindhu	n.d.	Box 27

## Series III. Works by Cohen

"Regulation of Biosynthesis"--Lecture	1963	Box 27
"The Research Frontier: Where Is Science Taking Us?"	1957	Box 27
"S-Adenosyl-L-Methionine as a Pivotal Precursor for Polyamine and Ethylene Biosynthesis in Chinese Cabbage Protoplasts"--with Michael L. Greenberg	1984	Box 27
"Some Data on the Incorporation of Exogenous Nutrients and on the Biosynthesis of Nucleic Acids and Proteins by E. Coli Strain TAU and on the Properties of "Synchronized" Cells"--with Janet Lichtenstein Stern	[196-]	Box 27
"Some Studies on Bacteriophage Multiplication"--with Catherine B. Fowler	[195-]	Box 27
Marjorie Stephenson and André Boivin--Tribute	[1950]	Box 27
"Studies on Commercial Typhus Vaccines. V. The Nature of the Soluble Antigen of the Commercial Typhus Vaccine as Determined by a Quantitative Study of the Serological Cross Reactions of Rickettsial Fractions"--with Jean R. Clawson and Leslie A. Chambers	[194-]	Box 27
"Synthesis in Virus-Infected Bacteria"	[1950]	Box 27
"Taking Care of Each Other"	25 Feb. 1971	Box 27
	[1978]	Box 27

**Series III. Works by Cohen**

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"Virus-Induced Enzymes and the  
Chemotherapy of Infectious Disease"--  
Lecture

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## Series IV. Works by Others

**Series IV. Works by Others****1940-1983****15 boxes; 7  
linear feet**

Laboratory notebooks, laboratory notes, and some manuscripts. Most of the works were done by students and laboratory assistants in the 1960s. In the case of experiments that were carried out by more than one person, each person has been cross-referenced. The laboratory notebooks contain graphs, charts, photographs, and some test tubes (see Deborah Marcu, "Protoplasts"). There are many experiments by Judy Heyward, Lillie Lapi, Hazel Barner Leung, Janet Lichtenstein Stern, and Ellen Streibel. Subjects include polyamines, TYMV, bleomycin, ara-A, and adenine. Photographs have been left in this series, and extensive conservation work needs to be done (see Conservation Note).

**Altendorf, C.**

1971-1972

2 Folders

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"tRNA Studies"--Notes

**Anderson, Thomas Foxen, 1911-1991**

Box 28

-See Ser.III, "Chemical Studies in Host-Virus Relationships..."

**Andrade, Patricia**

21 Sep. 1981

Box 28

"Progress in the Synthesis of a Substrate for Arginine-Specific Proteases"

**Arbogast, Rachel**

Box 28

-See Ser.III, "A Biochemical Study of the Mutual Reactivation..."

**Bonner, David M.**

1963

Box 28

"Gene-Enzyme Relationship in Micro-Organisms"

**Chambers, Leslie A.**

Box 28

-See Ser.IV, Clawson, Jean R. and Leslie A. Chambers. "Studies on Commercial Typhus Vaccines..."

**Champey, Elaine and Judy Heyward**

1978-1979

2 Folders

Box 28

## Series IV. Works by Others

"Polyamines of TYMV; Serology;  
Adsorption of Polyamines and Removal;  
Density Gradients"--Notes

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**Champey, Elaine** 1978-1979 Box 29

"Virus Isolation; Polyamine Content;  
Adsorbed Polyamine and Removal"--Notes

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**Champey, Elaine** Box 29

-See also Ser.V, "Early Studies--Before  
Protoplasts"

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**Cheng, Chung-Tai J.** Apr. 1978 Box 29

"Polyamines in Red Algae"

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**Clawson, Jean R. and Leslie A. Chambers** [194-] Box 29

"Studies on Commercial Typhus Vaccines.  
VI. Immunological Activity of Rickettsial  
Fractions and of the Soluble Antigen  
Preparations"

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**Cocito, Carlos G.** [1983] Box 29

"A Study of the Arabinose Pathway  
in Mycobacteria and Cornebacteria:  
An Approach to Chemotherapy of  
Mycobacterial Diseases"

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**Cohen, Georges N.** [198-] Box 29

"Four Decades of Franco-American  
Collaboration in Biochemistry and  
Molecular Biology"

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**Delory, George Edward** Box 29

"A Note on the Determination of Phosphate  
in the Presence of Interfering Substances"

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**Doering, Alice** 1965-1966 Box 29

## Series IV. Works by Others

"Bacterial Experiments"--Notes			
<b>Flaks, Joel G.</b>	n.d.		Box 29
"Fractionation Studies"			
<b>Flaks, Joel G.</b>			Box 29
-See also Ser.IV, Leung, Hazel Barner and Joel G. Flaks. "Attempt to Infect Bacterial..."			
<b>Fowler, Catherine B.</b>	1946-1947	2 Folders	Box 29
"Nutritional Requirements of T2r+"--Notes			
<b>Fowler, Catherine B.</b>			Box 29
-See also Ser.III, "The Nutritional Requirements..."			
<b>Green, Maurice</b>			Box 29
-See Ser.V, "Manometry of Cho Metabolism"			
<b>Greenberg, Michael L.</b>	n.d.		Box 29
"Studies on the Polyamines in TYMV"			
<b>Greenberg, Michael L.</b>			Box 29
-See also Ser.III, "S-Adenosyl-L-Methionine..."			
<b>Guarino, Linda</b>			Box 29
-See Ser.IV, Heyward, Judy and Linda Guarino. "Plant Log, Virus Preparation..."			
<b>Hamilton, R.D.</b>	[196-]		Box 29
"Biosynthesis of Cytosine Arabinoside 51 Phosphate"			
<b>Heyward, Judy</b>	1976-1978	2 Folders	Box 29

## Series IV. Works by Others

"Methods for Plants, TYMV Isolation,  
Serology, RNA, Polyamines of TYMV,  
Isolations of Chloroplasts"--Notes

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<b>Heyward, Judy and Linda Guarino</b>	1976-1977	3 Folders	Box 30
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"Plant Log, Virus Preparation, Virus  
Properties; Search for SAM Decarboxylase  
in Anacystis"--Notes

-See also Ser.IV, Champey, Elaine and Judy Heyward. "Polyamines of TYMV..."

-See also Ser.V, "Early Studies--Before Protoplasts"

-See also Ser.V, Protoplasts

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<b>Heyward, Judy</b>	1979		Box 30
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"Uptake of Putrescine in Seedlings;  
Isolation of Intact Chloroplasts; Metabolism  
by Intact Chloroplasts"

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<b>Hoffner, Nancy</b>	1967		Box 30
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"Effects of Spermidine, Antibiotics on  
Polyauxotrophic E. Coli (AA-, U-); Studies  
with TAU1B; TAURC<sup>STR</sup> vs. TAURC  
REL + Methionine"--Notes

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<b>Jansen, Miekie</b>	1967		Box 30
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"Attempted Activation of 21-Phosphate  
in Adenine-Containing Nucleotides by  
Irradiation"--Notes

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<b>Jansen, Miekie</b>	1965-1966	2 Folders	Box 31
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"Strain TAUAd-ara Effects; Lethality of  
2131 Dideoxyadenosine..."--Notes

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<b>I, Josephine</b>	1976		Box 31
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"Binding of Ethidium Bromide by tRNA  
With or Without Polyamine as Studied



## Series IV. Works by Others

by Spectrophotometric Measurement and  
Equilibrium Dialysis"

<b>I, Josephine</b>	1975	Box 31
"Lethality of Bleomycin to E. Coli; Degradation of DNA by BLEO A5; Ethidium on E. Coli"		
-See also Ser.III, "Metabolic Requirements for the Lethality..."		
<b>I, Josephine</b>	[197-]	Box 31
"Production and Purification of R17, Extraction of RNA from R17 and Infectivity of R17 and R17 RNA on Bacteria and Blue Green Algae"		
<b>I, Josephine</b>	1974	Box 31
"tRNA, Other Binding of Ethidium"--Notes		
<b>I, Josephine</b>		Box 31
-See also Ser.III, "Metabolic Requirements..."		
<b>Josten, J.J.</b>	[195-]	Box 31
"Fractionation of Cryptotethya Crypta"		
-See also Ser.V, "Cryptotethya, ara A & B96..."		
<b>Kanazir, Dusan and S. Subotic</b>	[1956]	Box 31
"A Conversion of Prolineless Mutants to Autotrophs by Means of Homologous Nucleic Acids"		
<b>Keller, Joan</b>	1966	Box 31
"Tests of sp, spd, pu, Hirudenine, Arcaine on L Cells in Horse Sera"--Notes		
<b>Keller, Joan</b>	1966	Box 31

## Series IV. Works by Others

## "Toxic Compounds on L Cells"--Notes

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<b>Lanning, M.</b>			Box 32
-See Ser.V, "Manometry of Cho Metabolism"			
<b>Lapi, Lillie</b>	1969-1970		Box 32
"Bacterial Growth; Inhibition by Fluorouracil Derivatives; Effects of DMDS; Effects of 3H-ara AMP"--Notes			
<b>Lapi, Lillie</b>	1975	2 Folders	Box 32
"Bleomycin I"--Notes			
<b>Lapi, Lillie</b>	1975-1976	2 Folders	Box 32
"Bleomycin II"--Notes			
<b>Lapi, Lillie</b>	1974-1975	2 Folders	Box 33
"Chemical Methods for Plants; Isolations of Plant RNA; RNA-Polyamines; Valine Acceptance"--Notes			
<b>Lapi, Lillie</b>	1973-1974	2 Folders	Box 33
"Properties of Chinese Cabbage Leaves..."--Notes			
<b>Lapi, Lillie</b>	1975-1976	2 Folders	Box 33
"Toxicity of ara A1 Deoxyadenosine, and Adenosine to L Cells..."--Notes			
<b>Lapi, Lillie</b>			Box 33
-See also Ser.V, "Chemical Methods. ara A Nucleosides and Nucleotides; Animal Cell			

## Series IV. Works by Others

Culture; Bacterial Culture; Turnip Yellow Mosaic Virus; Chloroplasts"

-See also Ser.V, "Effects of Ethidium on TAUst, TAUxl; Bacterial Growth, Some Methods"

-See also Ser.V, "Incorporation of Labeled araA and araAMP into L Cells"

-See also Ser.V, "L Cell Reserves; Lethality of Nucleosides and Nucleotides; DMSO Effects; Cloning"

-See also Ser.V, "Ornithine Decarboxylase in E. Coli"

-See also Ser.V, "Preparation of araAMP, + 3H + 32P; Isolation of araA Nucleotides..."

-See also Ser.V, "Syntheses, Labeled Nucleotides. araA (r) araAMP (r) araATP"

<b>Leung, Hazel Barner</b>	1952-1953	2 Folders	Box 34
"15T-: Pyrimidine Requirements, Phage Sensitivity, Adsorption, Phage Production"			
<b>Leung, Hazel Barner</b>	1963-1965	2 Folders	Box 34
"Adenine Mutants, Including TAUAd..."			
<b>Leung, Hazel Barner and Joel G. Flaks</b>	1957-1958		Box 34
"Attempt to Infect Bacterial Protoplasts with DNA"--Notes			
<b>Leung, Hazel Barner</b>	1961-1962		Box 34
"Attempted Isolation of Mutants Deficient in Deoxycytidine Deaminase and/or Nucleoside Phosphorylase"			
<b>Leung, Hazel Barner</b>	1955-1957		Box 34
"Auxotrophic Mutants: Pyrimidineless; 15T-Amino Acid-Less; Methods"--Notes			

## Series IV. Works by Others

<b>Leung, Hazel Barner</b> "Effect of T2 Infection on Enzyme Content"	[195-]		Box 34
<b>Leung, Hazel Barner</b> "Effects of Inhibitors"--Notes	1953-1957		Box 34
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<b>Leung, Hazel Barner</b> "Fluorouracil and Thymineless Death; Activity of F-Pyrimidine Nucleosides..."	1957-1960		Box 35
<b>Leung, Hazel Barner</b> "HMase, TSase in T- + Infection..."--Notes	1958-1959	2 Folders	Box 35
<b>Leung, Hazel Barner</b> "Nucleic Acid and Acid-Soluble Components of Cryptotethya Crypta and M. Tuberculosis; Metabolic Activities and Variability of Sponge Cells"	1961-1963		Box 35
<b>Leung, Hazel Barner</b> "On 15T- Adaptation to Xylose"--Notes	1953-1956		Box 35
<b>Leung, Hazel Barner</b> "Phage Stocks, New Cultures, Thymineless Effects, CDR Deaminase, Pyrimidine Nucleoside Phosphorylase, Green Hydrogenation"--Notes	1953-1957	2 Folders	Box 35
<b>Leung, Hazel Barner</b> "Radiated Phage and Early (H Mase) & Late (Lysozyme) Enzymes, TAUAd, Miscellaneous"--Notes	1964	2 Folders	Box 36
<b>Leung, Hazel Barner</b>	1958-1959		Box 36

## Series IV. Works by Others

"Relations of RNA and DNA Synthesis to  
Inducibility Use of 15T-U"--Notes

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**Leung, Hazel Barner** 1960-1964 2 Folders Box 36

"Ribonucleotide Reductase; Studies on  
dCMP Deaminase..."--Notes

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**Leung, Hazel Barner** 1959 Box 36

"Search for Infectious DNA in Infected  
DNA; Use of Resistant Strains  
Protoplasts"--Notes

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**Leung, Hazel Barner** 1955-1956 Box 37

"Tests of Dihydro- and CH<sub>2</sub>OH-  
Derivatives on Mutants; Effects of DNase  
on Thymus r+ & r DNA; Electrophoresis of  
Digests; Fuculose Phosphate"--Notes

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**Leung, Hazel Barner** 1952-1956 Box 37

"Thymineless Bacteria: Sulfanilamide as a  
Bactericide..."--Notes

-See also Ser.III, "D-Arabinosyl Nucleosides..."

-See also Ser.IV, Stern, Janet Lichtenstein and Hazel Barner Leung. "Conversion of Phage-Induced  
RNA..."

-See also Ser.V, "Manometry of Cho Metabolism"

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**Leung, Hazel Barner** Box 37

-See also Ser.III, "D-Arabinosyl  
Nucleosides..."

-See also Ser.IV, Stern, Janet Lichtenstein  
and Hazel Barner Leung. "Conversion of  
Phage-Induced RNA..."

-See also Ser.V, "Manometry of Cho  
Metabolism"

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**Loeb, Marilyn Rosenthal, 1930-** [195-] Box 37

## Series IV. Works by Others

"Preparation of 51 Nucleotides"

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**Lucas-Lenard, Jean** [1965] Box 37

"The Effect of Arabinosyl-ADP and d-ADP  
on Polynucleotide Phosphorylase from E.  
Coli"

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**Manduka, M.J.** Box 37

-See Ser.V, "Attempt to Sensitize TAUAd to  
araAMP"

-See Ser.V, "Incorporation of Labeled araA  
and araAMP into L Cells"

-See Ser.V, "L Cell Reserves; Lethality  
of Nucleosides and Nucleotides; DMSO  
Effects; Cloning"

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**Marble, Mary** Box 37

-See Ser.IV, Schwarz, Ruth. "Activity of ara  
A on TAUAd..."

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**Marcu, Deborah** 1980-1981 Box 37

"Protoplasts (r) Chloroplasts"--Notes

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Folder #1 Box 37

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Folders #2-3 Box 38

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**Marcu, Deborah** 1979 2 Folders Box 38

"Sephadex Separations of RNA..."--Notes

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**Marcu, Deborah** Box 38

-See also Ser.V, Protoplasts

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**Morgan, Sophia** Box 38

"Tests of Dansyl Method; Polyamines in  
Nucleates"

-See Ser.V, same title

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## Series IV. Works by Others

<b>Ortiz, P.</b>		Box 38
-See Ser.V, "Incorporation of Labeled araA and araAMP into L Cells"		
<b>Pizer, Lewis I.</b>	Dec. 1958	Box 38
"Enzyme Induction in E. Coli BU-"		
<b>Plunkett, William K., Jr.</b>	29 Aug. 1968	Box 38
"Investigation of Phage-Induced Dihydrofolate Reductase"		
<b>Plunkett, William K., Jr.</b>		Box 38
"Lethality of araA, araAMP to TAUAd; Effects of Methyloadenosine and Analogues on TAUAd"		
-See Ser.V, same title		
<b>Pochon, François</b>	1971	Box 38
"Separation of tRNA-Spermidine Complex; Thiouridine in E. Coli tRNA"--Notes		
<b>Prairie, Celia Esther Freda</b>		Box 38
"tRNA Studies. Binding of Spermidine Ethidium..."		
-See Ser.V, same title		
<b>Raff, R.</b>		Box 38
-See Ser.V, "Manometry of Cho Metabolism"		
<b>Raina, Aarne</b>	1966	Box 38
"Polyamines and: Levorphanol, Thymineless, Viability, Antibiotics, Anaerobiosis, and Methionineless"--Notes		
<b>Ramakrishna, Seethala</b>		Box 38

## Series IV. Works by Others

-See Ser.III, "Polyamines and  
Macromolecular..."

<b>Rinker, Bob</b>	1966	Box 38
"TAU Killed by Streptomycin in T & U Contains Active Ribosomes"--Notes		
<b>Roth, L.</b>	1951-1952	Box 39
"Experiments on Viral Growth in Cells Adapted to Sugars Feeding in to 6PG Path"--Notes		
<b>Roth, L.</b>	1951-1952	Box 39
"Preparations of Phage, DNA; One Step Growth on Sugars of PG Path; Ghosts and Killing--Inconclusive"--Notes		
<b>Rudolph, Robert H.</b>	[196-]	Box 39
"The Effect of Synthetic Prelyl-Alanyl- Theonine on the Reaggregation of Degraded TMV Protein"		
<b>Rudolph, Robert H.</b>	[196-]	Box 39
"The Synthesis of Prelyl-Alanyl-Theonine"		
<b>Schachman, Howard</b>		Box 39
-See Ser.V, "Molecular Weight of T4MV- RNA..."		
<b>Schwarz, Ruth</b>	1973	Box 39
"Activity of ara A on TAUAd; Prevention of ara A Lethality by 51 Cl Adenosine; Possible Synergism of ara A and ddA; Activity of ddAMP"		
<b>Shalaby, Ragaa</b>	[1964]	Box 39



## Series IV. Works by Others

"Polymerization of TMV Protein in  
Presence of Synthetic Tripeptide Prolyl  
Alanyl Theonine"

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<b>Shelness, Gregory</b> [Lab Report]	1980		Box 39
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<b>Shelness, Gregory</b> "Spermidine Biosynthesis in Chinese Cabbage"	1980		Box 39
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<b>Shelness, Gregory</b> -See also Ser.V, "Early Studies--Before Protoplasts"			Box 39
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<b>Sindhu, Ram K.</b> -See Ser.III, "The Localization of Spermidine..." -See Ser.III, "Propylamine Transferases in the..."			Box 39
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<b>Stanley, Wendell M.</b> -See Ser.III, "Properties of Ultracentrifugally..."			Box 39
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<b>Stern, Janet Lichtenstein</b> "Bacterial DNA After Thymineless Death; Ribosomes of Infected Cells"--Notes	1961-1963		Box 39
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<b>Stern, Janet Lichtenstein and Hazel Barner Leung</b> "Conversion of Phage-Induced RNA to Deoxyribonucleotides in Extracts; Assay of dTMP Synthetase"--Notes	1959-1960	2 Folders	Box 39
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<b>Stern, Janet Lichtenstein</b> "Experiments on TAU, T-H-, T-..."--Notes	1961-1962	2 Folders	Box 40
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## Series IV. Works by Others

<b>Stern, Janet Lichtenstein</b>	1957-1958		Box 40
"Hydroxymethylase Synthase Assays"-- Notebook			
<b>Stern, Janet Lichtenstein</b>	n.d.		Box 40
"Metabolism of 51-Deoxythymidine by E. Coli"			
<b>Stern, Janet Lichtenstein</b>	1957-1964		Box 40
"mRNA in THU & TAU + Infection; DNA Stability After Alkali..."			
<b>Stern, Janet Lichtenstein</b>	1955-1956		Box 40
"Phage Analyses, Tests of Auxotrophs, Utilization of HM-Dihydrosubstrates"-- Notebook			
<b>Stern, Janet Lichtenstein</b>	1959-1963		Box 40
"Streptomycin"--Notes			
<b>Stern, Janet Lichtenstein</b>	1963-1964	2 Folders	Box 40
"Streptomycin on mRNA Formation..."-- Notes			
<b>Stern, Janet Lichtenstein</b>	1956-1959		Box 41
"Test of Dihydro-, Hydroxymethyl in 15T-1B1Bu- + Phage; Non-Utilization of Nucleotides Drip of Nucleosides"--Notes			
<b>Stern, Janet Lichtenstein</b>			Box 41
-See also Ser.V, "Bacterial Extracts + Cations..."			
-See also Ser.V, "Mg++ vs. Polyamines..."			
<b>Streibel, Ellen</b>	1970-1971	3 Folders	Box 41
"K+ Depletion; tRNA with U* Incorporation; Mg Depletion..."			

## Series IV. Works by Others

<b>Streibel, Ellen</b>	1969-1970	2 Folders	Box 41
"Polyamine Analyses; B697tRNA; K12 met-leu- Double Label Experiment..."--Notes			
<b>Streibel, Ellen</b>	1968-1969	2 Folders	Box 42
"Stocks; B45-met-; TAUst-TAUrel; CP78st vs. CP79rel"--Notes			
<b>Subotic, S.</b>			Box 42
-See Ser.IV, Kanazir, Dusan and S. Subotic. "A Conversion of Prolineless..."			
<b>Tarr, H.L.A.</b>	[1963]		Box 42
"Formation of Deoxyadenosine from Adenine by Nucleoside Phosphorylase"			
<b>Taylor, Alton R.</b>	[1946]		Box 42
"The Nucleic Acid Content of a Bacterial Virus"			
<b>Teichberg, Saul</b>	1969		Box 42
"Purification of Dihydrofolate Reductase"			
<b>Torget, Robert William</b>	1975-1976		Box 42
"Infected Plants; Uptake of [14c]-Methionine into Leaf Discs; Polyamines of Healthy and Infected Plants..."--Notes			

## Series V. Research Notes

<b>Series V. Research Notes</b>	<b>1938-1980</b>	<b>12 boxes; 5.5 linear feet</b>	
Laboratory notes, graphs, charts, photographs, and a few test tubes (see "Protoplasts"). Experiments that were done with students are cross-referenced in Series IV. Many of the experiments are from the 1940s and 1950s. The earliest material is "Thromboplastin (Towards Dissertation)" dated 1938-1941. Subjects for the experiments include phosphogluconate, chloroplasts, protoplasts, ara, TAU, RNA polymerase, and polyamines. Photographs have been left in this series, and extensive conservation work needs to be done (see Conservation Note).			
"Attempt to Sensitize TAU Ad to araAMP"	1970		Box 43
"Attempted Hydrolysis of NA by Diazomethane; Methylation of Nucleotides"	1956-1958		Box 43
"Bacterial Extracts + Cations; Effects of Streptomycin; DNFB Method of Estimating Polyamines; Isolation of Viral DNA with Protein from Extract"	1958-1959	2 folders	Box 43
-See also Ser.V, "Mg++ vs. Polyamines in..."			
"Chemical Methods. ara A Nucleosides and Nucleotides; Animal Cell Culture; Bacterial Culture; Turnip Yellow Mosaic Virus; Chloroplasts"	1971-1972	2 folders	Box 44
"Clotting Possibilities"--Notebook	1940-1945		Box 44
"Cryptotethya, ara A & B96, Sponge Nucleic Acids and Nucleotides, Search for ara in M. Tuberculosis, Purine-Requiring Mutants, Electron Microscopy"	1960-1961, 1966		Box 44
"Cyanobacteria"--Notebook	1973-1974		Box 44
"Distribution of G6P, 6PG Dehydrogenases Chaetopterus Enzymes"	1950-1951		Box 44

## Series V. Research Notes

"DNase of Lysates, Streptomycin Experiments, Some Analyses of Phage..."	1946-1947		Box 44
"Early Studies--Before Protoplasts"	1979-1980	2 folders	Box 44
"Effects of Ethidium on TAUst, TAUxel; Bacterial Growth, Some Methods"	1972	2 folders	Box 45
"Experiments with O2 Electrode: RNA Viruses and Algae; Serum Oxidase and Polyamines; Functionality of Isolated Chloroplasts; Decline of Anacystis"	1974-1980		Box 45
"Glucose Media, Comparison of R+, R Viruses, Immunochemistry & Purification, Growth Curves, Turbidity, DNA and Protein Syntheses, Mutual Reactivation"			Box 45
Folder #1	1948-1950		Box 45
Folder #2	1948-1950		Box 45
"Heparin Crystallization, Nucleophosphatase, TMV-RNA Size and Shape"	Apr. 1941-Aug. 1942		Box 45
"Incorporation of Labeled araA and araAMP into L Cells"	1971	2 folders	Box 45
"Initial Observations (Kabacoff), Comparison of Glucose of r+ and r Strains"	1955-1957		Box 46
"Isolation and Characterization of Tobacco Necrosis Viruses"	1941-1942		Box 46
-See also Ser.III, "Properties of Ultracentrifugally..."			
"Isolation of HMC Nucleoside; Deamination of Pyrimidines and Nucleosides; DNAs-	1952-1953	2 folders	Box 46

## Series V. Research Notes

Resistant Core; DNA Synthesis in 15T-+T2;  
Preparation of HMU, Nucleoside"

"K+ Depletion, U* Incorporation, Isolation of tRNA, Polyamine Analyses"	1968-1970	2 folders	Box 46
"K12-Uronic Acids-Pentoses, Tests of Simultaneous Adaptation"--Notebook and Notes	Sep. 1947-Apr. 1948		Box 46
"L Cell Reserves; Lethality of Nucleosides and Nucleotides; DMSO Effects; Cloning"			Box 46
Folder #1	1970-1971		Box 46
Folder #2	1970-1971		Box 47
"Lab Notes. Learning the Use of Warburg, Growth of E. Coli, Effect of Phage Membranes, Influenza Virus"--Notebook	1945-1946		Box 47
"Laboratory Methods (Chemical Mainly); Some Pizer Studies (1960)"	1962		Box 47
"Laboratory Methods, Strains"	1950s-1970s	2 folders	Box 47
"Lethality of araA, araAMP to TAUAd; Effects of Methyladenosine and Analogues on TAUAd"	1972	2 folders	Box 47
"Manometry: Cho Utilization"	1950-1952		Box 48
"Manometry of Cho Metabolism"--Notebook	1951-1952		Box 48
"Mg++ vs. Polyamines in Aggregation of Ribosomal Subunits"	1958-1959		Box 48
-See also Ser.V, "Bacterial Extracts + Cations..."			

## Series V. Research Notes

"Molecular Weight of T4MV-RNA; Sabbatical Leave with H. Schachman"	1955-1957		Box 48
-See also Ser.VI, same title			
"Ornithine Decarboxylase in E. Coli"	1971-1973	2 folders	Box 48
"[14c]-Orotic Acid, [14c]-Serine Experiments"	1950-1953		Box 48
"Paper Chromatography"--Notebook	1948		Box 48
"Perchloric Acid--Tryptophan Reaction"	1943-1944		Box 48
"Phage-Cho II, Nucleotides of r+ and r Strains, HMC Nucleotides- 0,1,2 Glucose"	1956-1958		Box 48
"Phosphogluconate, Gluconokinase..."	1950-1956	2 folders	Box 49
"Phosphogluconate Path Presumed Substrates, Products Properties (Liability, Reactions), Separation (Ion Exchange Paper), Analysis (Bacterial)"	1948-1949		Box 49
"Physical Studies: NA Fractions"	n.d.		Box 49
"Polyamines of Algae, of TYMV"	1977-1980		Box 49
"Preparation of araAMP, + 3H + 32P; Isolation of araA Nucleotides..."	1971-1973	2 folders	Box 49
Protoplasts contains test tubes	1979-1980	2 folders	Box 50
"Preparations of Phage for Base Analysis"	1949-1950		Box 50
"Rickettsial Fractions, Nucleohistone, Perchloric Acid-Tryptophan, Proteus OX-19"--Notebook	1944-1945		Box 50

## Series V. Research Notes

"RNA Polymerase; Media-Putrescine Mutant..."	1968-1970		Box 50
"Schramm Synthesis of ara A; Fletcher Synthesis of ara A; Analyses of Cryptotethya"	1962-1963		Box 50
"Search for Phosphoarabino Mutase Isomerase"	1961-1962		Box 50
"Sedimentation of Extracts; Effects of Mg+ +, Spermidine"	1958-1959		Box 51
"Spectra: Cho, Pyrimidines and Purines, Other"	1948-1957		Box 51
"Streptomycin Nucleate Precipitation, Lysis from Without in Anaerobiosis..."	1946		Box 51
"Studies in Typhus Vaccine"	1942-1946	2 folders	Box 51
"Studies with B. Proteus OX-19 Chemical Modifications"	1944-1945		Box 51
"Syntheses, Labeled Nucleotides. araA (r) araAMP (r) araATP"	1970-1971		Box 51
"Synthesis of ara (A,C); Synthesis with Polyphosphoric Acid"	1964-1966		Box 52
"TAU-ST - TAU-REL (Letter of Origin); Isolation by Gutcho Method; Isolation from L Cells..."	1968-1969		Box 52
"TAU Stringent vs. TAU Relaxed"	1966	2 folders	Box 52
"Tests of Dansyl Method; Polyamines in Nucleates"			Box 52



## Series V. Research Notes

Folder #1-2	1968-1969		Box 52
Folder #3	1968-1969		Box 53
"Tetrahydrouridine Effects; Infections; TAU 1967-1968 st, TAU rel"		2 folders	Box 53
"Thromboplastin (Toward Dissertation)-- Notebook	1938-1941		Box 53
"tRNA Studies. Binding of Spermidine Ethidium..."	1970-1974		Box 53
-See also Ser.III, "The Binding of Polyamines and Ethidium to tRNA"			
"TYMV Chloroplasts; Attempted Infection of Bacteria, Bluegreens with Viral RNA; Polyamines in MET Bacteria"	1973-1974	2 folders	Box 53
Unidentified	1956-1957		Box 54
"Uronic Acids, Pentoses: Bacterial Growth and Metabolism"	Fall 1947-Spring 1948		Box 54
"Warburg Experiments, Phage, Pentose"	1945-1946		Box 54
"Warburg Manometry; Respiration, Fermentation, RQ; Growth, Infection; [1-14c]-Gluconokinase, Pentose Kinase"-- Notebook	1946-1971		Box 54

## Series VI. Photographs

<b>Series VI. Photographs</b>	<b>1941-1983</b>	<b>1 box; 0.25 linear feet</b>
Photographs of Cohen in his laboratory, at conferences, at the Serbian Academy of Sciences and Arts, and with Alfred D. Hershey. Also included are photographs of Cohen's students and photographs of experiments results (e.g., of chloroplasts).		
American Association for Cancer Research. Board of Directors	1976-1977	Box 55
B. Megaterium	10 Jun. 1964	Box 55
Chloroplast	29 Mar. 1974	Box 55
Cohen, Seymour S.	[1950]	Box 55
Cohen, Seymour S.	1963	Box 55
Cohen, Seymour S.	1963-1971?	Box 55
Cohen, Seymour S.	1971-1976?	Box 55
Cohen, Seymour S.	1982	Box 55
Cohen, Seymour S.		Box 55
<ul style="list-style-type: none"> <li>-See also Ser.VI, American Association for Cancer Research. Board of Directors</li> <li>-See also Ser.VI, Gordan Research Conference</li> <li>-See also Ser.VI, International Symposium on Polyamines in Normals and Neoplastic Cells</li> <li>-See also Ser.VI, The Rockefeller Institute for Medical Research</li> <li>-See also Ser.VI, Serbian Academy of Sciences and Arts</li> </ul>		
Cohen, Seymour S.--University of Colorado Identification Card	n.d.	Box 55
Cohen, Seymour S. and Alfred D. Hershey	1946 or 1947	Box 55
Cohen, Seymour S. and Tungsun Xu	[198-]	Box 55
Gordan Research Conference	7-11 Jul. 1980	Box 55

## Series VI. Photographs

Hershey, Alfred D.		Box 55
-See Ser.VI, Cohen, Seymour S. and Alfred D. Hershey		
Hirudonine	[1981]	Box 55
International Symposium on Polyamines in Normals and Neoplastic Cells	8-10 Sep. 1980	Box 55
"Minor Bases Found in a Variety of RNA Samples"	[1973]	Box 55
"Molecular Weight of T4MV-RNA; Sabbatical Leave with H. Schachman"	1955-1957	Box 55
Phage (øe)	[1976]	Box 55
"Properties of Ultracentrifugally Isolated Viruses Causing Tobacco Necrosis"	[ca. 1941]	Box 55
Raina, Aarne (Family)	31 May 1979	Box 55
The Rockefeller Institute for Medical Research	1942	Box 55
Saint Jude Children's Research Hospital	Nov. 1973	Box 55
"Sedimentation of Extracts; Effects of Mg <sup>+</sup> , Spermidine"	1958-1959	Box 55
Sekiguchi, Mutsuo (Family)	[1961]	Box 55
Serbian Academy of Sciences and Arts	21 Sep. 1973	Box 55
"Studies on Typhus Vaccine"	1942-1946	Box 55
Xu, Tungsan		Box 55
-See Ser.VI, Cohen, Seymour S. and Tungsan Xu		
Yamanoha, Banri (Family)	[1983]	Box 55