

# **Lipmann (Fritz Albert) papers**

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Rockefeller Archive Center

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# **Summary Information**

**Repository:** Rockefeller Archive Center

**Creator - aut:** Lipmann, Fritz (Fritz Albert)

**Title:** Fritz Albert Lipmann papers, Rockefeller University Faculty

**ID:** FA123

**Date [inclusive]:** 1924-1986

**Physical Description:** 56.3 Cubic Feet

**Language of the** English

Material:

#### **Preferred Citation**

Information regarding the Rockefeller Archive Center's preferred elements and forms of citation can be found at <a href="http://www.rockarch.org/research/citations.php">http://www.rockarch.org/research/citations.php</a>

# Biographical/Historical note

Fritz Albert Lipmann, whose work gave scientists the basis for understanding how cells convert food into energy, was born in Koenigsberg, Germany on June 12, 1899. He earned an M. D. in 1924 and a Ph. D. in chemistry in 1927 at the University of Berlin. He joined Otto Meyerhof's group at the Kaiser Wilhelm Institute, first in Dahlem, then in Heidelberg and in 1930 he associated with Albert Fischer, whom he later followed to the Biological Institute of the Carlsberg Foundation in Copenhagen. Before leaving Germany for Copenhagen he spent the year 1931-1932 as a Rockefeller Foundation Fellow with PA Levene at The Rockefeller University, then known as The Rockefeller Institute for Medical Research.

In 1939 Dr. Lipmann came to the United States, to Vincent du Vigneaud's department at the Cornell Medical School. From 1941 until he joined The Rockefeller Institute in 1957, he was associated with the Massachusetts General Hospital and the Harvard Medical School, which in 1949 appointed him professor of biological chemistry. As a biochemist whose primary concern was the transmission, generation, and utilization of cellular energy, he proposed (in 1941) the concept of a metabolic dynamo by which energy-rich phosphate bonds continuously supply the energy needed for the work of building and repairing cells. In 1945 Lipmann isolated Coenzyme A and identified it as a key substance in the biosynthesis of a great

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variety of cell constituents, including fatty acids, steroids, amino acids, hemoglobin and others. He found that it contained one of the B vitamins, pantothenic acid.

For this discovery of Coenzyme A and its recognition as one of the most important substances in body metabolism, Dr. Lipmann was awarded the Nobel Prize in Physiology or Medicine (along with Hans Kreb) in 1953. Dr. Lipmann moved to The Rockefeller Institute in 1957, becoming Professor Emeritus in 1970. At RU, he worked with charged tRNAs and moved into the field of elongation factors in ribosomal protein synthesis. EFTu and EFTs were discovered at the Rockefeller laboratory.

In 1966 President Johnson presented him with the National Medal of Science, the nation's highest award for scientific achievement, for his original discoveries of molecular mechanisms and his fundamental contributions to the conceptual structure of modern biochemistry. He received numerous other awards, including the Carl Neuberg Medal and the Mead Johnson Award. He was given honorary degrees from the University of Paris, Harvard University, the University of Chicago, the Albert Einstein College of Medicine, Brandeis University, Medizinische Hochschule (Hanover, Germany), the University of Copenhagen, and The Rockefeller University. In 1974, an annual Fritz Lipmann Lecture Series was established at the Max-Planck-Institut für Molekulare Genetik, in Berlin, by the Deutsche Gesellschaft für Biologische Chemie at the behest of his former students and colleagues. In 1975, he received the Orden Pour le mérite für Wissenschaften und Künste from President Walter Scheel of West Germany, in a ceremony held in Bonn. His professional memberships included the National Academy of Sciences, the Deutsche Akademie der Naturforscher Leopoldina in East Germany, a fellow of the Danish Royal Academy of Sciences, the New York Academy of Sciences, and a foreign member of the Royal Society in London.

Dr. Lipmann lectured widely and published numerous scientific articles, publishing at least one article for every year of his professional career, beginning in 1924 up to his death in 1986. He wrote an autobiography The Wanderings of a Biochemist, published by Wiley-Interscience, in 1971. Up until the time of his death, on July 24, 1986, at the age of 87, Dr. Lipmann was actively running a laboratory at The Rockefeller University and conducting research. In the last few years of his life, his research focused on the mechanism of protein synthesis.

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# **Scope and Contents**

Types of records include: personal files, correspondence, lectures, notes, manuscripts, reprints, photographs, slides and audio-visual materials.

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# **Arrangement note**

Arranged in chronological and alphabetical order.

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## File Plan note

Former Classification: I 450 L667

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## **Administrative Information**

#### **Publication Statement**

Rockefeller Archive Center

15 Dayton Avenue Sleepy Hollow 10591

archive@rockarch.org

URL: http://www.rockarch.org

# **Revision Description**

Paper finding aid converted to EAD/XML by AureXus in 2010. Imported into the Archvists' Toolkit by Becky Robbins. 4 August 2010

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When requesting to view audiovisual material, please refer to the Title and the AV Number (example: AV 1916). Researchers are asked to check the "Restrictions" note for each Title. If a Title does not currently have an access copy, please contact a RAC archivist for further instruction.

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# **Controlled Access Headings**

- Life sciences
- Biochemistry
- Biology -- Research
- Science -- Biological and Medical
- Proteins -- Synthesis
- Cell and biomolecular sciences
- Proteins
- Rockefeller University
- Rockefeller Institute for Medical Research

# **Collection Inventory**

#### Personal Files, 1924-1986

Physical Description: 1.75 Cubic Feet

#### **Scope and Contents note**

Includes award certificates, biographical material, magazines, a medal, telephone/calendar/address books.

Also includes: scroll from the Israel Biochemical Society; books: In Honoring We Are Honored A Brandeis University tribute to honorary degree recipients 1948-1963, and Roussel Uclaf, from France; Awards: Roswell Park Memorial Institute, 1980; medal, Paris 1979.

#### **Arrangement note**

Arranged in alphabetical and then in chronological order.

Title/Description	Instances		
American Academy of Arts and Sciences Nomination	box 1	folder 1	
[magazines]	box 1	folder 2	
[magazines]	box 1	folder 3	
[various oversize documents]	box 1	folder 4	

Paris Match magazine	box 1	folder 5
[oversize photos]	box 1	folder 6
[large negatives]	box 1	folder 7
Lipmann Memorial Concert, 1986	box 2	folder 1
Lipmann Memorial Concert, 1986	box 2	folder 2
Lipmann biographical material	box 2	folder 3
Triangle magazine	box 2	folder 4
Lipmann Symposium	box 2	folder 5
South American trip, 1963	box 2	folder 6
Lipmann laboratory blueprints	box 2	folder 7
Telephone address book	box 2	folder 8
[notebook]	box 2	folder 9
Degrees	box 2	folder 10
Giovannella slides	box 2	folder 11
Obituary materials	box 2	folder 12
Obituary materials	box 2	folder 13
Obituary materials	box 2	folder 14
Pasteur Anniversary	box 2	folder 15
Calendar/address books, 1957	box 3	folder 1
Calendar/address books, 1958	box 3	folder 2
Calendar/address books, 1959	box 3	folder 3
Calendar/address books, 1960	box 3	folder 4
Calendar/address books, 1961	box 3	folder 5
Calendar/address books, 1962	box 3	folder 6
Calendar/address books, 1963	box 3	folder 7
Calendar/address books, 1964	box 3	folder 8
Calendar/address books, 1965	box 3	folder 9
Calendar/address books, 1966	box 3	folder 10
Calendar/address books, 1967	box 4	folder 1
Calendar/address books, 1968	box 4	folder 2
Calendar/address books, 1969	box 4	folder 3
Calendar/address books, 1970	box 4	folder 4

Calendar/address books, 1971	box 4	folder 5	
Calendar/address books, 1972	box 4	folder 6	
Calendar/address books, 1973	box 4	folder 7	
Calendar/address books, 1974	box 4	folder 8	
Calendar/address books, 1975	box 4	folder 9	
Calendar/address books, 1976	box 5	folder 1	
Calendar/address books, 1977	box 5	folder 2	
Calendar/address books, 1978	box 5	folder 3	
Calendar/address books, 1979	box 5	folder 4	
Calendar/address books, 1980	box 5	folder 5	
Calendar/address books, 1981	box 5	folder 6	
Calendar/address books, 1982	box 5	folder 7	
Calendar/address books, 1983	box 5	folder 8	
Scope and Contents			
1984 is not included in the collection.			
Calendar/address books, 1985	box 5	folder 9	

## **Scope and Contents**

1984 is not included in the collection.

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# Correspondence, 1950-1986

Physical Description: 13.25 Cubic Feet

## **Scope and Contents note**

Includes both personal and professional correspondence.

### **Arrangement note**

Arranged in chronological and then in alphabetical order.

Title/Description	Instances	
["A"], 1950s	box 6	folder 1
Academic Press, 1950s	box 6	folder 2
American Society of Biological Chemists, 1950s	box 6	folder 3

American Society of Biological Chemists, 1950s

	box 6	folder 4
American Society of Biological Chemists, 1950s	box 6	folder 5
Archives of Biochemistry and Biophysics	box 6	folder 6
["B"], 1950s	box 6	folder 7
["B"], 1950s	box 6	folder 8
Baddiley, Dr. J.	box 6	folder 9
Bronk, Dr. Detlev	box 6	folder 10
["C"], 1950s	box 6	folder 11
["C"], 1950s	box 6	folder 12
Committee on Non-clinical Investigators	box 6	folder 13
["D"], 1950s	box 7	folder 1
Dean Clark	box 7	folder 2
["E"], 1950s	box 7	folder 3
["F"], 1950s	box 7	folder 4
Furio D'Abramo	box 7	folder 5
["G"], 1950s	box 7	folder 6
G. D. Novelli	box 7	folder 7
Gregory, J. D.	box 7	folder 8
Geller, David M.	box 7	folder 9
Gordon Conference	box 7	folder 10
["H"], 1950s	box 7	folder 11
["H"], 1950s	box 7	folder 12
Hotels	box 7	folder 13
["I"], 1950s	box 7	folder 14
Israel material	box 7	folder 15
Interscience Publishers	box 7	folder 16
["J"], 1950s	box 8	folder 1
J. D. Judah Fellowship	box 8	folder 2
Jones, Mary Ellen-Fellowship	box 8	folder 3
Journal of the American Chemical Society	box 8	folder 4
["K"], 1950s	box 8	folder 5
["K"], 1950s	box 8	folder 6

["L"], 1950s	box 8	folder 7
["L"], 1950s	box 8	folder 8
["M"], 1950s	box 8	folder 9
["M"], 1950s	box 8	folder 10
Mager-Magnes Scholarship	box 9	folder 1
["N"], 1950s	box 9	folder 2
National Academy of Sciences	box 9	folder 3
Nobel letters	box 9	folder 4
Nose, Yoshitsugu	box 9	folder 5
Nozaki	box 9	folder 6
["O"], 1950s	box 9	folder 7
Ottawa	box 9	folder 8
["P"], 1950s	box 9	folder 9
["P"], 1950s	box 9	folder 10
Peck, Harry D.	box 9	folder 11
Pound Bill	box 9	folder 12
["Q"], 1950s	box 9	folder 13
Rabinowitz, Murray	box 9	folder 14
Rhode Island Symposium	box 9	folder 15
Robbins, Phillips W.	box 9	folder 16
Rockefeller Foundation	box 9	folder 17
Rockefeller Institute	box 9	folder 18
["S"], 1950s	box 10	folder 1
["S"], 1950s	box 10	folder 2
Sharon, Nathan	box 10	folder 3
Szilard, P.	box 10	folder 4
["T"], 1950s	box 10	folder 5
Tax information	box 10	folder 6
Travel expense sheets	box 10	folder 7
Travel information	box 10	folder 8
["U"], 1950s	box 10	folder 9
["V"], 1950s	box 10	folder 10

Vogue magazine material	box 10	folder 11
["W"], 1950s	box 10	folder 12
["W"], 1950s	box 10	folder 13
Weber, H. H.	box 10	folder 14
Weiss, Samuel	box 10	folder 15
["X-Y-Z"]	box 10	folder 16
["A"], 1957-1960	box 11	folder 1
Acs, George	box 11	folder 2
American Society of Biological Chemists	box 11	folder 3
Archives of Biochemistry and Biophysics	box 11	folder 4
["B"], 1957-1960	box 11	folder 5
["B"], 1957-1960	box 11	folder 6
Bates, Harold M.	box 11	folder 7
Brandeis University	box 11	folder 8
Brode, Dr. Wallace R.	box 11	folder 9
["C"], 1957-1960	box 11	folder 10
["C"], 1957-1960	box 11	folder 11
Cahn, Max L.	box 11	folder 12
Calif. visit	box 11	folder 13
Christmas cards	box 11	folder 14
["D"], 1957-1960	box 12	folder 1
Delbruck, Axel	box 12	folder 2
Democratic Advisory Committee	box 12	folder 3
["E"], 1957-1960	box 12	folder 4
European Chemists	box 12	folder 5
["F"], 1957-1960	box 12	folder 6
Federation meetings	box 12	folder 7
Federation of American Societies for Experimental Biology	box 12	folder 8
["G"], 1957-1960	box 12	folder 9
["G"], 1957-1960	box 12	folder 10
Gunther vs. Ehrenstein	box 12	folder 11
["H"], 1957-1960	box 12	folder 12

["H"], 1957-1960	box 12	folder 13
Hartmann, Guido	box 12	folder 14
Hasegawa, Eiichi	box 12	folder 15
Hulsmann, W. C.	box 12	folder 16
["I"], 1957-1960	box 13	folder 1
["J"], 1957-1960	box 13	folder 2
Japanese Biochemical Society	box 13	folder 3
["K"], 1957-1960	box 13	folder 4
["K"], 1957-1960	box 13	folder 5
Kaplan	box 13	folder 6
Khorana, H. G.	box 13	folder 7
["L"], 1957-1960	box 13	folder 8
Lane	box 13	folder 9
["M"], 1957-1960	box 13	folder 10
["M"], 1957-1960	box 13	folder 11
McCorquodale & Shapira	box 13	folder 12
Meyer, Karl	box 13	folder 13
Monro, Robin	box 13	folder 14
["N"], 1957-1960	box 13	folder 15
Netherlands Symposium	box 13	folder 16
New York Academy meeting	box 14	folder 1
["O"], 1957-1960	box 14	folder 2
Oak Ridge Symposium	box 14	folder 3
["P"], 1957-1960	box 14	folder 4
Petrack, Barbara	box 14	folder 5
["R"], 1957-1960	box 14	folder 6
["S"], 1957-1960	box 14	folder 7
["S"], 1957-1960	box 14	folder 8
["S"], 1957-1960	box 14	folder 9
Szafranski Przemyslaw	box 14	folder 10
["T"], 1957-1960	box 14	folder 11
Takeda, Masao	box 14	folder 12

Traut, R. R.	box 14	folder 13
["U-V"], 1957-1960	box 14	folder 14
["W"], 1957-1960	box 14	folder 15
["W"], 1957-1960	box 14	folder 16
["X-Y-Z"], 1957-1960	box 14	folder 17
Zubay, Geoffrey	box 14	folder 18
["A"], 1961-1964	box 15	folder 1
["A"], 1961-1964	box 15	folder 2
Allende, Jorge E.	box 15	folder 3
["B"], 1961-1964	box 15	folder 4
["B"], 1961-1964	box 15	folder 5
["B"], 1961-1964	box 15	folder 6
Baschang, Gerhard	box 15	folder 7
Bloemendal, H.	box 15	folder 8
Brandeis University	box 15	folder 9
["C"], 1961-1964	box 15	folder 10
Chapeville, F.	box 15	folder 11
Conway, Thomas W.	box 15	folder 12
["D"], 1961-1964	box 15	folder 13
["E"], 1961-1964	box 15	folder 14
Ebashi, Setsuro	box 16	folder 1
Engstrom, Lorentz	box 16	folder 2
["F"], 1961-1964	box 16	folder 3
["G"], 1961-1964	box 16	folder 4
["G"], 1961-1964	box 16	folder 5
Gerlach, Ulrich	box 16	folder 6
Government inquiry into scientific spending	box 16	folder 7
["H"], 1961-1964	box 16	folder 8
["H"], 1961-1964	box 16	folder 9
Henry, Jean-Charles	box 16	folder 10
Hierowski, Marian	box 16	folder 11
["I"], 1961-1964	box 16	folder 12

["J"], 1961-1964	box 16	folder 13
Journal of Biological Chemistry	box 16	folder 14
Journal of the American Chemical Society	box 16	folder 15
["K"], 1961-1964	box 16	folder 16
["K"], 1961-1964	box 16	folder 17
Kuncan, Zeljko	box 17	folder 1
["L"], 1961-1964	box 17	folder 2
["L"], 1961-1964	box 17	folder 3
Langan, Thomas	box 17	folder 4
["M"], 1961-1964	box 17	folder 5
["M"], 1961-1964	box 17	folder 6
Mano, Yoshitake	box 17	folder 7
M-RNA	box 17	folder 8
Miscellaneous	box 17	folder 9
["N"], 1961-1964	box 17	folder 10
["N"], 1961-1964	box 17	folder 11
Nathans, Daniel	box 17	folder 12
Newberg Medal Committee	box 17	folder 13
["O"], 1961-1964	box 17	folder 14
Ofengand, James	box 17	folder 15
["P"], 1961-1964	box 18	folder 1
["P"], 1961-1964	box 18	folder 2
["R"], 1961-1964	box 18	folder 3
["R"], 1961-1964	box 18	folder 4
["S"], 1961-1964	box 18	folder 5
["S"], 1961-1964	box 18	folder 6
["S"], 1961-1964	box 18	folder 7
["S"], 1961-1964	box 18	folder 8
["S"], 1961-1964	box 18	folder 9
["T"], 1961-1964	box 18	folder 10
["U"], 1961-1964	box 18	folder 11
["V"], 1961-1964	box 18	folder 12

["W"], 1961-1964	box 18	folder 13
["W"], 1961-1964	box 18	folder 14
["X-Y-Z"], 1961-1964	box 18	folder 15
["A"], 1965-1968	box 19	folder 1
["A"], 1965-1968	box 19	folder 2
Applications for laboratory work	box 19	folder 3
Applications for laboratory work	box 19	folder 4
Applications for laboratory work	box 19	folder 5
["B"], 1965-1968	box 19	folder 6
["B"], 1965-1968	box 19	folder 7
["B"], 1965-1968	box 19	folder 8
Bennett, Peter	box 19	folder 9
Biochemistry	box 19	folder 10
Biochemistry manuscript review	box 19	folder 11
Biography	box 20	folder 1
Brandeis University	box 20	folder 2
["C"], 1965-1968	box 20	folder 3
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Chemical Sciences Committee	box 20	folder 5
Chile correspondence	box 20	folder 6
Clark, John M., Jr.	box 20	folder 7
Coenzyme A article	box 20	folder 8
Cold Spring Harbor Symposium	box 20	folder 9
["D"], 1965-1968	box 20	folder 10
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Brandeis University	box 20	folder 12
["C"], 1965-1968	box 20	folder 13
["C"], 1965-1968	box 20	folder 14
Chemical Sciences Committee	box 20	folder 15
Chile correspondence	box 20	folder 16
Clark, John M., Jr.	box 20	folder 17
Coenzyme A article	box 20	folder 18

Cold Spring Harbor Symposium	box 20	folder 19
["D"], 1965-1968	box 20	folder 20
["E"], 1965-1968	box 20	folder 21
["F"], 1965-1968	box 21	folder 1
Faculty Committee on Organic and Biochemistry	box 21	folder 2
Faculty Committee on Organic and Biochemistry	box 21	folder 3
Federation meeting, 1966	box 21	folder 4
Federation meeting, 1967	box 21	folder 5
Felicetti, Luciano	box 21	folder 6
Fleissner, Erwin	box 21	folder 7
["G"], 1965-1968	box 21	folder 8
["G"], 1965-1968	box 21	folder 9
German visit	box 21	folder 10
Gordon conference, 1965	box 21	folder 11
Gordon conference, 1967	box 21	folder 12
Gottesman, Max	box 21	folder 13
["H"], 1965-1968	box 21	folder 14
["H"], 1965-1968	box 21	folder 15
["H"], 1965-1968	box 21	folder 16
Hadjiolov, A. A.	box 22	folder 1
Hebrew University	box 22	folder 2
Honors, 1966	box 22	folder 3
["I"], 1965-1968	box 22	folder 4
Ilan, Joseph	box 22	folder 5
Information Exchange Group	box 22	folder 6
Israel, 1966	box 22	folder 7
["J"], 1965-1968	box 22	folder 8
Job opportunities	box 22	folder 9
["K"], 1965-1968	box 22	folder 10
["L"], 1965-1968	box 22	folder 11
["L"], 1965-1968	box 22	folder 12
Laskin Award	box 22	folder 13

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Lindau meeting	box 22	folder 15
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McClean Hospital Scientific Advisory Committee	box 23	folder 1
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Marchis-Moucen, Guy	box 23	folder 3
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Orrego, Fernando	box 23	folder 11
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["S"], 1965-1968	box 24	folder 2
Scher, William	box 24	folder 3
Seventh International Congress of Biochemistry	box 24	folder 4
["T"], 1965-1968	box 24	folder 5
["U"], 1965-1968	box 24	folder 6
Ureta, Tito	box 24	folder 7
["V"], 1965-1968	box 24	folder 8
["W"], 1965-1968	box 24	folder 9
["W"], 1965-1968	box 24	folder 10
Wakabayashi, Kazuhiko	box 24	folder 11
Yu, Chuan-Tao	box 24	folder 12
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["A"], 1969-1970	box 25	folder 1
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["B"], 1969-1970	box 25	folder 3
["B"], 1969-1970	box 25	folder 4
Biochemistry	box 25	folder 5
Biochemistry	box 25	folder 6
Brazil letters	box 25	folder 7
["C"], 1969-1970	box 25	folder 8
Cold Spring Harbor Symposium	box 25	folder 9
Cooper, David	box 25	folder 10
Copenhagen, 1968	box 25	folder 11
["D"], 1969-1970	box 25	folder 12
["E"], 1969-1970	box 25	folder 13
Eighth International Congress on Biochemistry	box 25	folder 14
Eighth International Congress on Biochemistry	box 25	folder 15
["F"], 1969-1970	box 26	folder 1
["F"], 1969-1970	box 26	folder 2
Family of Man Awards	box 26	folder 3
FEBS meeting	box 26	folder 4
Federal support of science	box 26	folder 5
Fox, J. Lawrence	box 26	folder 6
France	box 26	folder 7
["G"], 1969-1970	box 26	folder 8
Ganoza, M. Clelia	box 26	folder 9
Germany, 1969 July	box 26	folder 10
Gevers, Wieland	box 26	folder 11
Gold, Lawrence	box 26	folder 12
["H"], 1969-1970	box 27	folder 1
["H"], 1969-1970	box 27	folder 2
Haenni, Ann-Lise	box 27	folder 3
Herrlich, Peter	box 27	folder 4
Hirsh, David	box 27	folder 5

Huberman, Alberto	box 27	folder 6
["I"], 1969-1970	box 27	folder 7
["J"], 1969-1970	box 27	folder 8
["K"], 1969-1970	box 27	folder 9
["K"], 1969-1970	box 27	folder 10
Kamer, Martin	box 27	folder 11
Kaplan, N. O.	box 27	folder 12
Khorana, H. G.	box 27	folder 13
Krisko, Istvan	box 27	folder 14
["L"], 1969-1970	box 28	folder 1
["L"], 1969-1970	box 28	folder 2
Lasker Award	box 28	folder 3
Lenard, Jean L.	box 28	folder 4
Lundsgaard letters	box 28	folder 5
["M"], 1969-1970	box 28	folder 6
["M"], 1969-1970	box 28	folder 7
Malken, Martin	box 28	folder 8
Meyerhof Symposium	box 28	folder 9
[Madrid Conference]	box 28	folder 10
Molecular biology	box 28	folder 11
["N"], 1969-1970	box 28	folder 12
["O"], 1969-1970	box 28	folder 13
Oak Ridge Laboratories	box 28	folder 14
Personal	box 29	folder 1
["Q"], 1969-1970	box 29	folder 2
["R"], 1969-1970	box 29	folder 3
Reboud, Jean Paul	box 29	folder 4
Rockefeller University Senate	box 29	folder 5
Royal Society	box 29	folder 6
["S"], 1969-1970	box 29	folder 7
["S"], 1969-1970	box 29	folder 8
Salas, Maria L.	box 29	folder 9

Schweiger, Manfred	box 29	folder 10
["T"], 1969-1970	box 29	folder 11
Tao, Manano and Pearl	box 29	folder 12
["U"], 1969-1970	box 29	folder 13
["V"], 1969-1970	box 29	folder 14
1969-1970	box 29	folder 15
Tao, Manano and Pearl	box 29	folder 16
["U"], 1969-1970	box 29	folder 17
["V"], 1969-1970	box 29	folder 18
["W"], 1969-1970	box 29	folder 19
["W"], 1969-1970	box 29	folder 20
["X-Y-Z"], 1969-1970	box 29	folder 21
["A"], 1971-1973	box 30	folder 1
ACS Garvan Medal	box 30	folder 2
Argentina	box 30	folder 3
Aspen meeting	box 30	folder 4
["B"], 1971-1973	box 30	folder 5
["B"], 1971-1973	box 30	folder 6
["B"], 1971-1973	box 30	folder 7
Bauer, Karl	box 30	folder 8
Biochemistry	box 30	folder 9
Biochemistry Ninth International Congress	box 30	folder 10
Biophysics Congress	box 30	folder 11
Book correspondence	box 30	folder 12
Book correspondence	box 30	folder 13
Book correspondence	box 30	folder 14
["C"], 1971-1973	box 31	folder 1
Calif	box 31	folder 2
Cold Spring Harbor	box 31	folder 3
Cold Spring Harbor, 1973	box 31	folder 4
Copenhagen, 1972	box 31	folder 5
["D"], 1971-1973	box 31	folder 6

["E"], 1971-1973	box 31	folder 7
Evins, Warren H.	box 31	folder 8
["F"], 1971-1973	box 31	folder 9
FEBS meetings, Bulgaria, 1971	box 31	folder 10
FEBS meetings, Bulgaria, 1971	box 31	folder 11
["G"], 1971-1973	box 31	folder 12
Germany, 1972	box 31	folder 13
Gordon, Julia	box 31	folder 14
["H"], 1971-1973	box 31	folder 15
Historical development of bioenergetics	box 32	folder 1
Historical development of bioenergetics	box 32	folder 2
Historical development of bioenergetics	box 32	folder 3
["I"], 1971-1973	box 32	folder 4
Institut de la Vie meeting	box 32	folder 5
["J"], 1971-1973	box 32	folder 6
["K"], 1971-1973	box 32	folder 7
["K"], 1971-1973	box 32	folder 8
Karolina Symposium	box 32	folder 9
Kleinkauf, Horst	box 32	folder 10
["L"], 1971-1973	box 33	folder 1
["M"], 1971-1973	box 33	folder 2
["M"], 1971-1973	box 33	folder 3
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FS' , 1971-1973   box 34   folder 4    TT' , 1971-1973   box 34   folder 5    Table Ronde Roussel Uclaf   box 34   folder 6    Table Ronde Roussel Uclaf - Origin of Life   box 34   folder 7    Table Ronde Roussel Uclaf - Origin of Life   box 34   folder 8    TU'' , 1971-1973   box 34   folder 9    TV'' , 1971-1973   box 34   folder 10    TW'' , 1971-1973   box 34   folder 11    TW'' , 1971-1973   box 34   folder 12    TW'' , 1971-1973   box 34   folder 12    TW'' , 1971-1973   box 34   folder 12    TW'' , 1971-1973   box 35   folder 14    TA'', 1974-1975   box 35   folder 1    TB'' , 1974-1975   box 35   folder 2    TB'' , 1974-1975   box 35   folder 3    TC'', 1974-1975   box 35   folder 5    TC'', 1974-1975   box 35   folder 6    TB'' , 1974-1975   box 35   folder 6    TB'' , 1974-1975   box 35   folder 9    TB'' , 1974-1975   box 35   folder 9    TB'' , 1974-1975   box 35   folder 10    TG'' , 1974-1975   box 35   folder 10    TG'' , 1974-1975   box 35   folder 11    TB'' , 1974-1975   box 35   folder 12    TB'' , 1974-1975   box 35   folder 12    TG'' , 1974-1975   box 35   folder 14    TG'' , 1974-1975   box 35   folder 16    TG'' , 1974-1975   box 35   folder 17    TG'' , 1974-1975   box 35   folder 18    TG'' , 1974-1975   box 35   folder 19    TG'' , 1974-1975   box 35   folder	["S"], 1971-1973	box 34	folder 2
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Biochemistry  Brandeis University  box 35  folder 5  ["C"], 1974-1975  box 35  folder 6  CIBA  box 35  folder 7  ["D"], 1974-1975  box 35  folder 8  ["E"], 1974-1975  box 35  folder 9  ["F"], 1974-1975  box 35  folder 10  ["G"], 1974-1975  box 35  folder 11  ["H"], 1974-1975  box 35  folder 12  ["T"], 1974-1975  box 35  folder 12  ["T"], 1974-1975  box 35  folder 13  ["J"], 1974-1975  box 35  folder 14  ["K"], 1974-1975  box 35  folder 15  ["K"], 1974-1975  box 35  folder 16  ["L"], 1974-1975  box 35  folder 16  ["L"], 1974-1975	["B"], 1974-1975	box 35	folder 2
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["K"], 1974-1975 box 35 folder 15  ["K"], 1974-1975 box 35 folder 16  ["L"], 1974-1975 box 35 folder 17	["I"], 1974-1975	box 35	folder 13
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["N"], 1976-1978	box 39	folder 14
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["R"], 1976-1978	box 40	folder 6
["R"], 1976-1978	box 40	folder 7
["S"], 1976-1978	box 40	folder 8
["S"], 1976-1978	box 40	folder 9
["T"], 1976-1978	box 40	folder 10
["U"], 1976-1978	box 40	folder 11
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1985 March-November	box 45	folder 5
1985 December-1986 April	box 45	folder 6
1985 December-1986 April	box 45	folder 7
1986 February-May	box 45	folder 8
1986 June-August	box 45	folder 9

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# **Lecture Files, 1948-1979**

Physical Description: 1 Cubic Feet

## **Scope and Contents note**

Includes correspondence, lecture notes and transcripts, travel notes.

# **Arrangement note**

Arranged in alphabetical order.

Title/Description	Instances	
Boston lectures on phosphoproteins	box 46	folder 1
Calif. notes	box 46	folder 2
Chicago talk	box 46	folder 3
Cold Spring Harbor, 1963	box 46	folder 4
Cold Spring Harbor Symposium	box 46	folder 5
Columbia University lecture, 1979	box 46	folder 6
Energy-flux system	box 46	folder 7
Fifth Annual Symposium on Fundamental Cancer Research	box 46	folder 8
Fifth New York lecture	box 46	folder 9
First Biology Harvard talk	box 46	folder 10
Formation of peptide bonds	box 46	folder 11

German talks	box 46	folder 12
Harvard lecture, 1948	box 46	folder 13
Harvard lecture, 1953	box 46	folder 14
Harvard alumni day, 1954	box 46	folder 15
Second Harvard lecture, 1954	box 46	folder 16
Third Harvard lecture, 1954	box 46	folder 17
Lecture 9-Harvard Biology Department	box 46	folder 18
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Fourth Harvard lecture, 1956	box 46	folder 23
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First Israel lecture	box 47	folder 2
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Lecture 2, 1954	box 47	folder 6
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Mitteilungen de Deutschen	box 47	folder 15
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Student lecture notes	box 48	folder 11
Student lecture notes, 1964	box 48	folder 12
Student lecture notes, 1965	box 48	folder 13
Student lecture notes, 1968	box 48	folder 14
Sulfate activation lecture	box 48	folder 15
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# Manuscripts and Notes, 1930-1985

Physical Description: 17 Cubic Feet

## **Scope and Contents note**

Correspondence, notes, rough drafts of published articles and autobiography.

# **Arrangement note**

Arranged in alphabetical order.

Title/Description	Instances	
Aarhies material	box 49	folder 1
Accounts paper seconds	box 49	folder 2
Accounts paper seconds	box 49	folder 3

Accounts paper seconds	box 49	folder 4
Accumulation of Guanosine	box 49	folder 5
Accumulation of Guanosine	box 49	folder 6
Accumulation of Guanosine	box 49	folder 7
Aceto-CoA-Kinase	box 49	folder 8
Acetyl-Coenzyme A synthesis	box 49	folder 9
Acetyl-Coenzyme A synthesis through Pyrophosphoryl	box 49	folder 10
Acetylation of Glutomic	box 49	folder 11
Acetylation of Hemoglobin	box 49	folder 12
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Physical Description: 10 Cubic Feet

# **Scope and Contents note**

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Physical Description: 6 Cubic Feet

# **Scope and Contents note**

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National Academy of Sciences, 1974	box 142	folder 7
National Academy of Sciences, 1975	box 142	folder 8
National Academy of Sciences, 1975	box 142	folder 9
National Academy of Sciences, 1976	box 142	folder 10
National Academy of Sciences, 1976	box 142	folder 11
National Academy of Sciences, 1976	box 142	folder 12
National Academy of Sciences, 1977	box 143	folder 1
National Academy of Sciences, 1977	box 143	folder 2
National Academy of Sciences, 1977	box 143	folder 3
National Academy of Sciences, 1977	box 143	folder 4
National Academy of Sciences, 1978	box 143	folder 5

National Academy of Sciences, 1978	box 143	folder 6
National Academy of Sciences, 1978	box 143	folder 7
National Academy of Sciences, 1978	box 143	folder 8
National Council for Civic Responsibility	box 143	folder 9
National Heart Institute	box 143	folder 10
National Heart Institute	box 143	folder 11
National Institute of Health grant	box 144	folder 1
National Institute of Health application	box 144	folder 2
National Institute of Health grants, 1957-1958	box 144	folder 3
National Institute of Health grant number 13972-16	box 144	folder 4
National Institute of Health grant number 13972-17	box 144	folder 5
National Institute of Health grant number 13972-18	box 144	folder 6
National Institute of Health grant number 13972-19	box 144	folder 7
National Institute of Health grant number 13972-20	box 144	folder 8
National Institute of Health grant number 13972-21	box 144	folder 9
National Institute of Health grant information	box 144	folder 10
National Institute of Health Gregory grant	box 144	folder 11
National Science Foundation Continuation grant	box 144	folder 12
National Science Foundation grant application	box 144	folder 13
National Science Foundation grant application	box 145	folder 1
National Science Foundation grants	box 145	folder 2
National Science Foundation Interdisciplinary Enzyme Group	box 145	folder 3
National Science Foundation grants, 1957-1962	box 145	folder 4
National Science Foundation meeting, 1957 October 25-26	box 145	folder 5
National Science Foundation meeting expenses	box 145	folder 6
National Science Foundation, 1958-1960	box 145	folder 7
National Science Foundation, 1958-1960	box 145	folder 8
National Science Foundation, 1958-1960	box 145	folder 9
National Science Foundation, 1961	box 146	folder 1
National Science Foundation, 1962	box 146	folder 2
National Science Foundation, 1963	box 146	folder 3
National Science Foundation, 1964	box 146	folder 4

National Science Foundation, 1965	box 146	folder 5
National Science Foundation, 1965	box 146	folder 6
National Science Foundation, 1966	box 146	folder 7
National Science Foundation, 1967	box 146	folder 8
National Science Foundation, 1967	box 146	folder 9
National Science Foundation, 1967	box 146	folder 10
National Science Foundation, 1968	box 146	folder 11
National Science Foundation, 1968	box 146	folder 12
National Science Foundation, 1968	box 146	folder 13
National Science Foundation, 1969-1970	box 147	folder 1
National Science Foundation, 1969-1970	box 147	folder 2
National Science Foundation, 1969-1970	box 147	folder 3
National Science Foundation, 1971	box 147	folder 4
National Science Foundation, 1971	box 147	folder 5
National Science Foundation, 1972	box 147	folder 6
National Science Foundation, 1973	box 147	folder 7
National Science Foundation, 1974	box 147	folder 8
National Science Foundation, 1974	box 147	folder 9
National Science Foundation, 1974	box 147	folder 10
National Science Foundation, 1982-1986	box 147	folder 11
National Science Foundation, 1982-1986	box 147	folder 12
New York Academy of Sciences	box 148	folder 1
New York Academy of Sciences, 1968	box 148	folder 2
Philosophical Society	box 148	folder 3
Pontifical Academy of Sciences meeting Rome	box 148	folder 4
Pontifical Academy of Sciences meeting Rome	box 148	folder 5
Royal Society London	box 148	folder 6
Royal Society anniversary meeting, 1963 November	box 148	folder 7
Rockefeller University Press	box 148	folder 8
Shouldice Hospital (hernia operation)	box 148	folder 9
Sixth International Congress of Biochemistry	box 148	folder 10
Sixth International Congress of Biochemistry	box 148	folder 11

Sixth International Congress of Biochemistry	box 148	folder 12	
Symposium on enzyme chemistry	box 148	folder 13	
Vienna Congress, 1958 September	box 148	folder 14	

# **Nobel Prize Files, 1953**

Physical Description: 0.33 Cubic Feet

### **Scope and Contents note**

Includes biographical material, congratulations correspondence, newspaper clippings, photographs, press releases.

### **Arrangement note**

Arranged by subject.

Title/Description	Instances	
Nobel Prize biography	box 149	folder 1
[Nobel Prize booklets]	box 149	folder 2
Nobel Prize Ceremony Photographs	box 149	folder 3
Nobel Prize Ceremony Photographs	box 149	folder 4
Nobel Prize clippings	box 149	folder 5
Nobel Prize correspondence	box 149	folder 6
[Nobel Prize miscellaneous]	box 149	folder 7
Nobel Prize press releases	box 149	folder 8

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# **Photographs**, 1930-1986

Physical Description: 0.33 Cubic Feet

### **Scope and Contents note**

Includes photographs spanning Dr Lipmann's entire career, from 1930 in Germany up to a few months before his death. Subjects include awards ceremonies, colleagues, formal portraits, informal shots, laboratory groups, lectures, parties, vacations.

### **Arrangement note**

Arranged in alphabetical order by subject; many photos not dated or identified.

Title/Description	Instances
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1963	box 150	folder 1
Madrid, 1969	box 150	folder 2
[meeting], 1970s	box 150	folder 3
Awards ceremonies	box 150	folder 4
Bethesda meeting, Spring 1982	box 150	folder 5
Brandeis Graduation, 1959	box 150	folder 6
Brandeis University symposium, 1982 June	box 150	folder 7
Campus views	box 150	folder 8
Christmas party, 1978	box 150	folder 9
Colleagues	box 150	folder 10
Colleagues, 1970	box 150	folder 11
Colleagues group shots	box 150	folder 12
Copenhagen laboratory, 1930s-1940s	box 150	folder 13
FASEB meeting	box 150	folder 14
Gene expression work session, 1966 November 20-22	box 150	folder 15
Informal shots	box 150	folder 16
Israel meeting	box 150	folder 17
Kyoto, Japan	box 150	folder 18
Laboratory and others	box 150	folder 19
Lindau conference	box 150	folder 20
Lipmann Eighty-second birthday party	box 150	folder 21
Lipmann Eighty-fifth birthday party Japan	box 150	folder 22
Lipmann laboratory	box 150	folder 23
Lipmann picnic	box 150	folder 24
Luncheon in Squibb Park, 1954 June 8	box 150	folder 25
[meeting], circa late 1950s-early 1960s	box 150	folder 26
New Brunswick, New Jersey, 1953 September 18	box 150	folder 27
New Hampton School, 1958 June 16-20	box 150	folder 28
Paris meeting	box 150	folder 29
Portraits	box 150	folder 30
Protein metabolism symposium, 1968 April	box 150	folder 31
Rockefeller University graduation, 1964-1965	box 150	folder 32

Sixth International Biochemistry Congress, 1964	box 150	folder 33	
Strasbourg, 1981 September 23	box 150	folder 34	
Symposium 1969 Cold Spring Harbor, 1969	box 150	folder 35	
Symposium on protein synthesis	box 150	folder 36	
Vatican meetings, 1961	box 150	folder 37	
Photographs	box 171		

# Rolodex Files, 1950s

Physical Description: 0.33 Cubic Feet

### **Scope and Contents**

Includes one file with names and addresses of colleagues. Second file contains list of colleagues to be sent reprints.

Rolodex file cards, 3 x 5, containing hundreds of addresses.

### **Arrangement**

Arranged in alphabetical order.

Title/Description	Instances
Rolodex Files, 1950s	box 151

<sup>^</sup> Return to Table of Contents

# Slides, undated (probably 1960s)

Physical Description: 2 Cubic Feet

### **Scope and Contents**

Slides consist of scientific drawings, graphs and microscopic photographs. Probably used in conjunction with lectures and publications.

Hundreds of slides of scientific photographs, drawings and graphs none identified.

## Arrangement

Arranged as found; none are identified or dated.

Title/Description	Instances
Slides, undated: probably 1960s	box 153

box 155 box 154

box 156

box 157

box 152

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# Negatives, 1950s

Physical Description: 1 Cubic Feet

# **Arrangement**

Arranged as found; many not identified or dated.

### **Scope and Contents**

Negatives of drawings, graphs and microscopic photographs used in articles and slides.

Hundreds of negatives used to make slides and reproduce scientific illustrations none identified.

Title/Description	Instances
Negatives, 1950s	box 158
	box 159
	box 160

### ^ Return to Table of Contents

# Lipmann Reprints, 1924-1985

Physical Description: 2.5 Cubic Feet

### **Scope and Contents note**

Includes at least one copy (with a few exceptions) of every article Dr. Lipmann published. Two copies are included for the majority of articles, although with earlier articles only one copy could be found.

### **Arrangement note**

Arranged in chronological order.

Title/Description	Instances
Lipmann reprints 1-90, two bound volumes	box 161
Lipmann reprints 91-166, two bound volumes	box 162
Lipmann reprints 167-272, two bound volumes	box 163

Lipmann reprints 273-330, two bound volumes	box 164	
Lipmann reprints 331-399, one bound volume	box 165	
Lipmann reprints 400-449, one bound volume	box 166	
unbound single copy article reprints - 13, 17, 49, 51, 64, 123, 141, 149, 153, 173, 174, 175, 176, 183, 185, 206, 207	box 167	folder 1
unbound single copy article reprints - 227, 227a,230, 232, 236, 237, 241, 243a, 249, 255, 258, 262, 263, 265	box 167	folder 2
unbound single copy article reprints - 267, 270, 271, 273, 282, 283, 293, 298, 299	box 167	folder 3
unbound single copy article reprints - 301, 302, 305, 311-313, 316, 317, 320-322, 328, 345, 355, 364, 367a, 370, 374, 375	box 167	folder 4
unbound single copy article reprints - 382 (e & f), 388, 408-412, 413, 414-415	box 167	folder 5
unbound single copy article reprints - 386. 394, 397, 416-420, 421b, 422-425	box 168	folder 1
unbound single copy article reprints - 427-431, 433-434, 435 (b & c), 436	box 168	folder 2
unbound single copy article reprints - 437-446, 448	box 168	folder 3
unbound single copy article reprints - 449-457, 459-465	box 168	folder 4
unbound single copy article reprints - 466-479	box 168	folder 5
unbound single copy article reprints - 480-483, 485-493	box 168	folder 6
unbound single copy article reprints - 494-516	box 168	folder 7
Bibliography of Reprints	box 168	folder 8

# Audio-visual Material, various; 1960

Physical Description: 0.75 Cubic Feet

# **Scope and Contents note**

Various audio-visual material: audio reels, cassettes and film reels. Audio cassettes contain recordings of Dr Lipmann giving lectures in San Francisco and Harvard. Other media not identified.

Title/Description	Instances
audio cassettes	box 169

**Conditions Governing Access:** 

# **Conditions Governing Access**

RAC is unable to provide access to obsolete media, due to the specialized equipment necessary to facilitate playback.

When feasible, a digital surrogate may be created via special order. All applicable charges will apply. See RAC Head of Archival Services or RAC Head of Digital Programs for details.

#### unidentified

#### Conditions Governing Access:

## **Conditions Governing Access**

RAC is unable to provide access to the original item, due to the specialized equipment necessary to facilitate playback. When feasible, a digital surrogate may be created via special order. All applicable charges will apply. See RAC Head of Archival Services or RAC Head of Digital Programs for details.

San Francisco lecture 4 Part one, 1972 January 27

### **Conditions Governing Access:**

## **Conditions Governing Access**

RAC is unable to provide access to the original item, due to the specialized equipment necessary to facilitate playback. When feasible, a digital surrogate may be created via special order. All applicable charges will apply. See RAC Head of Archival Services or RAC Head of Digital Programs for details.

San Francisco lecture 4 Part two, 1972 January 27

#### Conditions Governing Access:

### **Conditions Governing Access**

RAC is unable to provide access to the original item, due to the specialized equipment necessary to facilitate playback. When feasible, a digital surrogate may be created via special order. All applicable charges will apply. See RAC Head of Archival Services or RAC Head of Digital Programs for details.

San Francisco lecture 5, 1972 February 3

### **Conditions Governing Access:**

### **Conditions Governing Access**

RAC is unable to provide access to the original item, due to the specialized equipment necessary to facilitate playback. When feasible, a digital surrogate may be created via special order. All applicable charges will apply. See RAC Head of Archival Services or RAC Head of Digital Programs for details.

First lecture, 1972 January 6

**Conditions Governing Access:** 

### **Conditions Governing Access**

RAC is unable to provide access to the original item, due to the specialized equipment necessary to facilitate playback. When feasible, a digital surrogate may be created via special order. All applicable charges will apply. See RAC Head of Archival Services or RAC Head of Digital Programs for details.

Second lecture, 1972 January 13

**Conditions Governing Access:** 

### **Conditions Governing Access**

RAC is unable to provide access to the original item, due to the specialized equipment necessary to facilitate playback. When feasible, a digital surrogate may be created via special order. All applicable charges will apply. See RAC Head of Archival Services or RAC Head of Digital Programs for details.

Third lecture, 1972 January 20

**Conditions Governing Access:** 

### **Conditions Governing Access**

RAC is unable to provide access to the original item, due to the specialized equipment necessary to facilitate playback. When feasible, a digital surrogate may be created via special order. All applicable charges will apply. See RAC Head of Archival Services or RAC Head of Digital Programs for details.

Biochemistry lecture, 1972 March 2

Conditions Governing Access:

### **Conditions Governing Access**

RAC is unable to provide access to the original item, due to the specialized equipment necessary to facilitate playback. When feasible, a digital surrogate may be created via special order. All applicable charges will apply. See RAC Head of Archival Services or RAC Head of Digital Programs for details.

microfilm box 169

reels: Cambridge University Library, PAD 4671, A. Sarabhai, 176 exposures Negative of Sarabhai thesis, 1969 April 3

canister: Chantrenne notebook microfilm, 1950

audio reels box 169

Israel lectures, 1966 April-May

**Conditions Governing Access:** 

### **Conditions Governing Access**

RAC is unable to provide access to the original item, due to the specialized equipment necessary to facilitate playback. When feasible, a digital surrogate may be created via special order. All applicable charges will apply. See RAC Head of Archival Services or RAC Head of Digital Programs for details.

Chemistry of Molecular Nitrogen by George W Parshall

Conditions Governing Access:

### **Conditions Governing Access**

RAC is unable to provide access to the original item, due to the specialized equipment necessary to facilitate playback. When feasible, a digital surrogate may be created via special order. All applicable charges will apply. See RAC Head of Archival Services or RAC Head of Digital Programs for details.

video reel: unidentified box 169

**Conditions Governing Access:** 

### **Conditions Governing Access**

RAC is unable to provide access to the original item, due to the specialized equipment necessary to facilitate playback. When feasible, a digital surrogate may be created via special order. All applicable charges will apply. See RAC Head of Archival Services or RAC Head of Digital Programs for details.

audio cassettes box 170

unidentified

Conditions Governing Access:

### **Conditions Governing Access**

RAC is unable to provide access to the original item, due to the specialized equipment necessary to facilitate playback. When feasible, a digital surrogate may be created via special order. All applicable charges will apply. See RAC Head of Archival Services or RAC Head of Digital Programs for details.

Cleveland lecture, October 1973, with handwritten transcription/notes, 1973 October

Conditions Governing Access:

### **Conditions Governing Access**

RAC is unable to provide access to the original item, due to the specialized equipment necessary to facilitate playback. When feasible, a digital surrogate may be created via special order. All applicable charges will apply. See RAC Head of Archival Services or RAC Head of Digital Programs for details.

Lecture, 1972 March 9

**Conditions Governing Access:** 

## **Conditions Governing Access**

RAC is unable to provide access to the original item, due to the specialized equipment necessary to facilitate playback. When feasible, a digital surrogate may be created via special order. All applicable charges will apply. See RAC Head of Archival Services or RAC Head of Digital Programs for details.

San Francisco lecture six, 1972 February 10

**Conditions Governing Access:** 

# **Conditions Governing Access**

RAC is unable to provide access to the original item, due to the specialized equipment necessary to facilitate playback. When feasible, a digital surrogate may be created via special order. All applicable charges will apply. See RAC Head of Archival Services or RAC Head of Digital Programs for details.

audio reel box 170

Rockefeller University talk, 1967 May

**Conditions Governing Access:** 

### **Conditions Governing Access**

RAC is unable to provide access to the original item, due to the specialized equipment necessary to facilitate playback. When feasible, a digital surrogate may be created via special order. All applicable charges will apply. See RAC Head of Archival Services or RAC Head of Digital Programs for details.

Columbia talk, 1962 October

**Conditions Governing Access:** 

### **Conditions Governing Access**

RAC is unable to provide access to the original item, due to the specialized equipment necessary to facilitate playback. When feasible, a digital surrogate may be created via special order. All applicable charges will apply. See RAC Head of Archival Services or RAC Head of Digital Programs for details.

Caspary talk, 1971 April 6

**Conditions Governing Access:** 

### **Conditions Governing Access**

RAC is unable to provide access to the original item, due to the specialized equipment necessary to facilitate playback. When feasible, a digital surrogate may be created via special order. All applicable charges will apply. See RAC Head of Archival Services or RAC Head of Digital Programs for details.

audio spool: unidentified

box 170

### **Conditions Governing Access:**

# **Conditions Governing Access**

RAC is unable to provide access to the original item, due to the specialized equipment necessary to facilitate playback. When feasible, a digital surrogate may be created via special order. All applicable charges will apply. See RAC Head of Archival Services or RAC Head of Digital Programs for details.

film reel: Biosynthesis of Gramicidan S. by Fritz Lipmann

box 170

### **Conditions Governing Access:**

### **Conditions Governing Access**

RAC is unable to provide access to the original item, due to the specialized equipment necessary to facilitate playback. When feasible, a digital surrogate may be created via special order. All applicable charges will apply. See RAC Head of Archival Services or RAC Head of Digital Programs for details.

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