



# Kunitz (Moses) papers

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15 Dayton Avenue

Sleepy Hollow 10591

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## Summary Information

<b>Repository:</b>	Rockefeller Archive Center
<b>Creator:</b>	Rockefeller University
<b>Creator:</b>	Rockefeller Institute for Medical Research
<b>Creator - aut:</b>	Kunitz, Moses
<b>Title:</b>	Moses Kunitz papers, Rockefeller University Faculty
<b>ID:</b>	FA171
<b>Date [inclusive]:</b>	1913-1970
<b>Physical Description:</b>	9.13 Cubic Feet
<b>General Physical Description note:</b>	12 boxes, 1 package; 1 tube package, 2 volumes
<b>Language of the Material:</b>	English

### Preferred Citation

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

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## Biographical/Historical note

Moses Kunitz, 1887-1978 researcher in general pathology and biochemistry worked on the physical and chemical properties of proteins and enzymes at the Rockefeller University (earlier RIMR) from 1913 until his retirement in 1970. His research covered the purification and crystallization of a number of very important enzymes which take part in forming and utilizing energy-rich compounds within the body.

Biographical note	
1887	Born December 19 in Slonim, Russia
1909	Migrated to the United States

1916	B.S. Cooper Union, New York City (1910 entered School of Chemistry)
1916-1919	Cooper Union Electrical Engineering School
1919	Extension Teaching Columbia University, New York City
1920	School of Mines, Engineering and Chemistry, Columbia Univ.
1922	Faculty of Pure Science, Columbia University
1924	Ph. D. Columbia University, New York City (Biological Chemistry)
1913-1923	Technical Assistant, Rockefeller Institute for Medical Research Worked with Jacques Loeb in experimental biology. From 1926 with John Northrop at Princeton laboratories
1923-1925	Assistant, RIMR (General Physiology)
1925-1940	Associate, RIMR (General Physiology)
1944	Civilian with Office of Scientific Research and Development
1950-1953	Member, RIMR
1953-	Member Emeritus, RIMR
1957	Carl Neuberg Medal (American Society of European Chemists & Pharmacists)
1970	Retired from The Rockefeller University
1973	Honorary Degree, RU, New York City
1978	Died April 20 in Philadelphia, Pa. Interred Wellwood Cemetery on Long Island, N.Y.

Member of: National Academy of Sciences, American Association for the Advancement of Science, Society for Experimental Biology, Society of General Physiologists, American Society of Biological Chemists

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## Scope and Contents

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Types of records include: biographical material, notes, slides, photographs, reprints, and memorabilia.

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## Arrangement note

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Arranged in chronological order within subject.

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## File Plan note

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Former Classification: I 450 K962

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## Administrative Information

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### Publication Statement

Rockefeller Archive Center

15 Dayton Avenue  
Sleepy Hollow 10591  
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URL: <http://www.rockarch.org>

## Immediate Source of Acquisition

Dates received or inventoried: 1970, 1974, 1978, 1984. All received or inventoried in 1970, 1974, or 1978 unless otherwise noted.

## Conditions Governing Access note

Access to this collection is restricted pending permission from Rockefeller University.

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## Controlled Access Headings

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- Pathology
- Proteins -- Synthesis
- Medicine, Preventive
- Biology -- Research
- Cell and biomolecular sciences
- Chemistry
- Medical education
- Medical research
- Proteins
- Medical sciences
- Diseases
- Prevention and health
- Biochemistry

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## Collection Inventory

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Title/Description	Instances
Biographical material	box 1
<b>Scope and Contents note</b>  Photograph, bibliography, obituary notice Honorary Degree citation.	
Crystal preparation	box 1

**Scope and Contents note**

3 letters : Greene, Lewis J. ; Schmid, Karl; Stern, Herbert.

Student notebooks	box 1
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**Scope and Contents note**

11 notebooks of course material from Cooper Union and from Columbia.

## Laboratory notes and records

Laboratory procedures	box 2
Gelatin, alcohol and salt ppt, 1920-1921	box 2
Gelatin, viscosity, O.P., P.D., 1921-1922	box 2
Gelatin, swelling-diffusion potentials, 1921-1927	box 2
Egg albumin, 1921	box 2
Conductivity 1920; Electrical endomosis 1921-1922, 1920, 1921-1922	box 2
Casein, 1921 1923-1924	box 2
Cataphoresis, 1922-1923	box 3
Ion combination, 1924-1925	box 3
Isoelectric gelatin, 1925-1929	box 3
Diffusion gelatin 1930; Diffusion experiments 1934-1951, 1930 1934-1951	box 3
Trypsin, 1931-1932	box 3
Laboratory notes and records	box 4
Tsin denaturation 1932-1933; Inactivation of Tsin 1933, 1932-1933	box 4
Chymatgen; Trypsinogen, 1933	box 4
Degamma; Activation by Enterokinase, 1933	box 4
Trypsin 1934-1935; Activation of Trypsinogen 1934-1937, 1934 1935-1937	box 4
Trypsin-pancreatic inhibitor compound 1938	box 4
Chymotrypsin, 1936-1937 1937-1938	box 4
Mold kinase, 1937	box 5
Thromboplastin; Enterokinase, 1938	box 5
Ribonuclease, 1939-1940 1945-1946	box 5
Hexokinase, 1941-1942 1943	box 5

Absorption spectra data, 1944-1951	box 5
Soybean denaturation 1945-1946; Soybean inhibitor 1946, 1945-1946	box 5
B. Brodsky notebook, no. 4, 1945	box 5
Desoxyribonuclease, 1946-1948 1949-1950	box 6
Nucleo-proteins, 1948 1949 1949-1950	box 6
<b>Scope and Contents note</b>	
Including 1970 January 1 letter from Vincent Allfrey commenting "very first to employ nucleases and proteases in study of histone-DNA interaction".	
Cu Phenal 1950; Pyrophosphatase, 1950	box 6
Pyrophosphatase, 1951	box 6
Invertase, 1951 1952-1953 1961	box 7
Yeast phosphatase, 1953 1953-1954 1954 1954-1955	box 7
Yeast phosphatase, 1955-1956	box 8
Intestinal phosphatase - preparation, 1957-1958	box 8
Intestinal phosphatase (chicken), 1957-1959	box 8
<b>Scope and Contents note</b>	
Material for publication and calculations.	
Intestinal phosphatase: references, charts, tables, rough draft	box 8
Laboratory log books	box 8
Beckman Spectrophotometer, 1959	
Zwischenferment, 1958-1959	
Isolation of Zwischenferment, 1960	
Zwischenferment, 1961	
Zwischenferment, 1962	
Isolation of pyrophosphatase, 1960-1961	
Isolation of Asparaginase, 1961-1962	
Yeast (Bakers and Brewers), 1957-1959	box 9
Yeast asparaginase, 1961-1964 January	box 9
Yeast experiments (Alan Absgarten notes), 1962-1963	box 9
Potato phosphatase, 1959-1960 1960-1961 1963 1964-1965	box 9
Laboratory notes and records, 1965-1966 1967-1970	box 10



**Scope and Contents note**

Potato phosphatase.

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Lantern slides

box 11

Physical Description: 3¼ × 4 inch

**Scope and Contents note**

Graphs and charts and photographs of crystals.

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Laboratory photographs

box 12

untitled

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Original drawings of illustrations used in publications

Unidentified

**Scope and Contents note**

Journal of General Physiology: v. 18, no. 3; v. 19, no. 6; v. 21, no. 5; v. 22, no. 2; v. 24, no. 1; v. 25, no. 1; v. 29, no. 3; v. 29, no. 6; v. 30, no. 4; v. 32, no. 1; v. 33, no. 4; v. 35, no. 3.

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Original drawings of illustrations used in publications

package 1

Physical Description: 12 × 14¾ × ½" (oversize)

pkg.

**Scope and Contents note**

Journal of General Physiology: v. 23, no. 3; v. 43, no. 6; v. 45, no. 4.

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Certificate of membership in National Academy of Sciences

package 1

Physical Description: 2¾ × 17½"

tube pkg.

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Collected Reprints, 1923-1970

Separated Materials:

**Separated Materials**

Removed to RAC Library

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Photographs of Moses Kunitz, group photographs at Princeton and of Princeton Staff and Rockefeller Institute views

box 13

folder 1

Immediate Source of Acquisition:

**Immediate Source of Acquisition**

Received by the Rockefeller University Archives, November 1984, from Mrs. Roslyn Albert (Dr. Kunitz's daughter) via Professor Emeritus William Trager.

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Moses Kunitz, undated

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Princeton laboratory photograph of M.L. Anson, R.M. Herriott, J.H. Northrop, V. Desreaux and M. Kunitz, 1939

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Princeton laboratory photograph of M. Kunitz, M.L. Anson, J.H. Northrop, unidentified, undated

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RIMR, Princeton Staff group photograph. See photo for some identification, undated

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RIMR, Princeton Staff group photograph, 1942

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RIMR, Princeton Staff group photograph, 1947

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Photographs, undated

### **Scope and Contents note**

M. Kunitz in Dining Room, Welch Hall with Dr. Tsao?.

M. Kunitz with William Trager.

M. Kunitz. Official portrait.

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RI Hospital with hospital addition, 1950

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RI Campus from East River with Hospital addition, 1950

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Photographs of others

box 13

folder 2

Immediate Source of Acquisition:

### **Immediate Source of Acquisition**

Received by the Rockefeller University Archives, November 1984, from Mrs. Roslyn Albert (Dr. Kunitz's daughter) via Professor Emeritus William Trager.

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Various photographs of Mortimer L. Anson. One with Kreuger, undated

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Simon Flexner, at Woods Hole, Mass. Carrying books under left arm, 1923

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Jacques Loeb. Photo by Louis Schmidt, 1923

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At Woods Hole?, undated

### **Scope and Contents note**

Includes.

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Jacques Loeb

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Jacques Loeb and Brandes

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Parking area at Marine Biological Laboratories, Woods Hole, Mass

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Leo Loeb at microscope, undated

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Leonor Michaelis. Official portrait, undated

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Assorted prints, undated

## Scope and Contents note

Some identified.

Includes: David Hitchcock; Dr. Lilly; Thomas Moore; Dr. Parker; Dr. Chambers is one of three on photograph; The Worthingtons.

Remaining photographs unidentified.

Hans Neurath reprint with inscription. "To Moses Kunitz who started it all, with the best wishes, " January 1965, signed Hans Neurath. On 1964 Dec reprint. Hans Neurath, "Protein-digesting Enzymes". Science 211 (1964) 68-78, 1964 December-1965 January	box 13	folder 3
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### Immediate Source of Acquisition:

### **Immediate Source of Acquisition**

Received by the Rockefeller University Archives, November 1984, from Mrs. Roslyn Albert (Dr. Kunitz's daughter) via Professor Emeritus William Trager.

re: William Trager	box 13	folder 4
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### Immediate Source of Acquisition:

### **Immediate Source of Acquisition**

These items appear to have been sent to Mrs. R. Albert by William Trager, July 27, 1976.

### Immediate Source of Acquisition:

### **Immediate Source of Acquisition**

Received by the Rockefeller University Archives, November 1984, from Mrs. Roslyn Albert (Dr. Kunitz's daughter) via Professor Emeritus William Trager.

Printed leaflet contains professional and biographical information and Principle Contributions to Science by William Trager

New York Times, "Hope Rises for Vaccine Against Malaria". News clipping, 1976 June 1

Laboratory notes, bibliography and reprints	box 14	
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### Immediate Source of Acquisition:

### **Immediate Source of Acquisition**

Received by the Rockefeller University Archives, November 1984, from Mrs. Roslyn Albert (Dr. Kunitz's daughter) via Professor Emeritus William Trager.

Bound alphabetical record book of subject lab notes primarily reference for chemical compounds and scientific equivalents	box 14	folder 1
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Laboratory notebooks

	box 14	folder 2
Potato acid phosphatase (crystals), 1968 October-1969 April		
Potato acid phosphatase. Wheat germ, 1968-1971		
Laboratory notes	box 14	folder 3
Asparaginas, 1962		
Potatoe-acid phosphatase, 1970-1971		
Kunitz, Moses bibliography, 1923-1962	box 14	folder 4
Reprints. Kunitz et al reprints	box 14	folder 5
<b>Scope and Contents note</b>		
Includes J.H. Northrop reprint with inscription to Kunitz.		
Margaret McDonald lab notes on ribonuclease, 1948	box 14	folder 6
<b>Scope and Contents note</b>		
[Found in Kunitz volume of collected reprints 1932-1948. #15. McDonald reprint.].		
Memorabilia	box 15	
<u>Immediate Source of Acquisition:</u>		
<b>Immediate Source of Acquisition</b>		
Received by the Rockefeller University Archives, November 1984, from Mrs. Roslyn Albert (Dr. Kunitz's daughter) via Professor Emeritus William Trager.		
Academic Robe		
Carl Neuberg Medal		
<b>Scope and Contents note</b>		
Awarded to Moses Kunitz, 3 April 1957, Hunter College, New York City, American Society of European Chemists and Pharmacists Carl Neuberg Medal Meeting. From Printed Program in Medal case: Fritz Lipmann, "Greetings to Moses Kunitz." Roger M. Herriott, "Moses Kunitz: The Man and His Contributions to Science".		
Mounted membership certificate		
Moses Kunitz, Class of 1915, 1915-1965 June 9		
Golden Legion Membership Certificate, Mounted		

## Scope and Contents note

Awarded by this Cooper Union Alumni organization whose members have made significant contributions to their professions.

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A calendar page with following written on it " U J A 8 p.m. 220 W 58", 1932-1948 1968 February 28

## Scope and Contents note

[Found in Kunitz collected reprints 1932-1948 (bound volume) with #15 reprint, p. 40 of M.R. McDonald reprint.

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### M. Kunitz Collected Reprints

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Volume 1a, 1924-1931

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Volume 2a, 1932-1948

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Charts from Moses Kunitz's office

package 3

Immediate Source of Acquisition:

### Immediate Source of Acquisition

Given and identified by Prof. Paul Cranefield.

## Scope and Contents note

Ammonium sulfate concentration table.

Graph from L. Michaelis book.

Processing Information:

### Processing Information

Catalogued 1985 June 17.

Immediate Source of Acquisition:

### Immediate Source of Acquisition

Received by the Rockefeller University Archives, November 1984, from Mrs. Roslyn Albert (Dr. Kunitz's daughter) via Professor Emeritus William Trager.

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Honorary doctorate from RU, 1973

package 4

Immediate Source of Acquisition:

### Immediate Source of Acquisition

Received by the Rockefeller University Archives, November 1984, from Mrs. Roslyn Albert (Dr. Kunitz's daughter) via Professor Emeritus William Trager.

Processing Information:

## **Processing Information**

Catalogued 1985 June 17.