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Guide to the Edwin F. Hirsch Papers 1905-1972



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Descriptive Summary

Identifier	ICU.SPCL.HIRSCHEF
Title	Hirsch, Edwin F. Papers
Date	1905-1972
Size	8.5 linear feet (15 boxes)
Repository	Special Collections Research Center University of Chicago Library 1100 East 57th Street Chicago, Illinois 60637 U.S.A.

Abstract Edwin F. Hirsch (1886-1972) was a leading pathologist associated with Rush Medical College and the University of Chicago. He is well-known for having developed a method for determining the amount of fat in arteries, which contributed to the understanding of the relationship between arteriosclerosis and dietary fat. Edwin F. Hirsch's papers include materials related to the research, publication and distribution of his books, reprints of his published articles and other writings, and collected medical articles pertaining to his research. They also include autopsies he conducted during the Spanish Flu Pandemic at Camp Grant, Illinois (1918-1919). His professional certificates and awards are included, as well as newspaper clippings citing his expertise as a coroner, and memorial materials after his death. His family is represented in the collection by correspondence, as well as his aunt Selma Henke's history of the Hirsch family intertwined with her memoirs of her time as a missionary in China at the turn of the twentieth century. The collection spans Hirsch's early years as a student until his death (1905-1972).

Information on Use

Access

Series XII does not include access copies for part of the material in this series. Researchers will need to consult with staff before requesting material from this series.

The remainder of the collection is open for research, with no restrictions.

Citation

When quoting material from this collection, the preferred citation is: Hirsch, Edwin F. Papers, [Box #, Folder #], Special Collections Research Center, University of Chicago Library

Biographical Note

Edwin F. Hirsch (1886-1972) was a leading pathologist in Chicago associated with Rush College and the University of Chicago. He received his bachelor's degree from Northwestern University (1910), a master's degree from the University of Illinois (1911), and a PhD from the University of Chicago in pathology (1915), as well as a medical degree from Rush Medical College (1915). He served on the faculty of both Rush and the University of Chicago until he was made emeritus in 1950, and continued to work as the director of the Henry Baird Favill Laboratories at St. Luke's Hospital, a teaching and training center for pathologists until 1959. He was also the Emeritus Director of the Columbus Cuneo Cabrini Medical Center.

In 1917-1919, he worked as a doctor at Camp Grant, a U.S. Army facility that was located near Rockford, Illinois. The camp was a training facility during World War I, and was badly affected by the Spanish Influenza Pandemic in 1918, which killed 1,055 soldiers in the camp. Hirsch treated the soldiers who were affected by the disease, conducted autopsies, and researched the virus.

Hirsch is well-known for having developed a method for determining the amount of fat in arteries, which contributed to the understanding of the relationship between arteriosclerosis and dietary fat. He conducted studies and wrote several articles on innervation in vertebrates. Hirsch also profiled his mentor Frank Billings and Christian Fenger, who had influenced Billings – both were influential Chicago doctors who taught at Rush Medical College.

He is the author of and contributor to several books, notably *Pathology in Surgery* (1953), *Frank Billings: The Architect of Medical Education: A Leader in Chicago Medicine* (1966), *The Innervation of the Lung* (co-author, 1969), *The Innervation of the Vertebrate Heart* (editor, 1970), and *Christian Fenger, M.D. 1840-1902: The Impact of His Scientific Training and His Personality on Medicine in Chicago* (1972).

Hirsch fought to reform the Illinois coroner system, lobbying the Illinois legislature to replace the outdated coroner's system with that of a professional medical examiner. He was also involved as a medical expert in the investigations into several famous murders in the mid-1950s in Chicago, notably, the Schuessler-Peterson case (1955) and the Patricia and Barbara Grimes case (1956).

He served on the Human Relations Commission of Chicago where he worked to gain acceptance for African-American students into medical schools and as interns and residents in local hospitals.

Hirsch received many honors and awards, including an honorary Doctor of Science degree from Morningside College in 1955. He served as president of the Chicago Medical Society in 1958

and received lifetime honorary membership in the Chicago Pathological society after serving for thirty-five years as its secretary and president.

His wife, Helen Kotas Hirsch, was the first permanent female member of any major American orchestra, playing horn for the Chicago Symphony Orchestra (CSO).

Scope Note

The Edwin F. Hirsch papers includes materials related to the research, publication and distribution of his books, reprints of his published articles and other writings, and collected medical articles pertaining to his research. They also include autopsies he conducted during the Spanish Flu Pandemic at Camp Grant, Illinois (1918-1919). Included are professional certificates and awards, newspaper clippings citing his expertise as a coroner, and memorial materials after his death. His family is represented in the collection by their correspondence, as well as Selma Henke's history of the Hirsch family intertwined with her memoirs of her time as a missionary in China at the turn of the twentieth century.

Series I: Biographical, includes materials related to the personal and professional life of Edwin F. Hirsch, as well as memorial services after his death, circa 1920-1972. Two video recordings of his memorial services have been transferred to Series XII.

Series II: Medical Education, includes undated notebooks and sketchbooks from Edwin F. Hirsch's time as a medical student, circa 1910-1915.

Series III: Frank Billings Biography, includes materials related to the research and publication of Edwin F. Hirsch's biography of the renowned Chicago physician Frank Billings, *Frank Billings: The Architect of Medical Education, an Apostle of Excellence in Clinical Practice, A Leader in Chicago Medicine*, circa 1966.

Series IV: Christian Fenger Biography, includes materials related to the research and publication of Edwin F. Hirsch's biography of the Chicago physician Christian Fenger, *Christian Fenger, M.D., 1840-1902: the impact of his scientific training and his personality on medicine in Chicago*, circa 1972. Also includes correspondence with Dr. Raleigh R. White, requesting Hirsch's assistance in retrieving one of the legs of Christian Fenger's operating tables and turning it into a ceremonial gavel for the Western Surgical Association.

Series V: *The Innervation of the Vertebrate Heart*, includes materials related to the publication of *The Innervation of the Vertebrate Heart*, edited by Edwin F. Hirsch, circa 1970. Proofs of *The Innervation of the Vertebrate Heart* have been transferred to Series XIII.

Series VI: Other Writings, includes unpublished manuscripts and typescripts, published writings, and correspondence of Edwin F. Hirsch, circa 1918-1972.

Series VII: Medical Drawings and Photography, includes medical drawings and photographs produced by Edwin F. Hirsch for his research and publications. Photographs are individually numbered but the set is incomplete, lacking #47 from series 9646, #80 and #89 from series 9642, #116, #121-122, and #124 from series 9643, and #157 from series 9645. One large photograph entitled "Schwann's Cell" has been transferred to Series XIII.

Series VIII: Autopsies and Pathology, includes autopsies conducted between September 1917 and March 1919 at Camp Grant, a U.S. army facility that was located near Rockford, Illinois. The camp was a training facility during World War One, and was badly affected by the Spanish Influenza Pandemic in 1918, which killed 1,055 soldiers there. Hirsch worked there as a doctor, treating the thousands of soldiers who were affected by the disease, conducting autopsies, and researching the virus. The autopsies are individually numbered but the set is incomplete with no report on file for #3, #125-249 and #348. The series also contains pathology instructional materials. Two folders of loose newspaper clippings about his work as a coroner and a scrapbook containing clippings about his work on several high profile murder cases and deaths in Chicago have been transferred to Series XIII.

Series IX: Professional, includes Edwin F. Hirsch's professional commendations as a medical doctor, pathologist and coroner, as well as certificates of awards and newspaper clippings citing him as an expert. Also contains The Proceedings of the Institute of Medicine of Chicago, Vol. 27, No. 3, "Negroes and Medicine in Chicago," May 1968, which refers to Hirsch's work on the Joint Committee of the Chicago Medical Society and of the Institute of Medicine on the integration of African American physicians into Chicago hospitals. 15 oversized certificates have been transferred to Series XIII.

Series X: Medical Articles by Others, includes collected articles by various scholars on topics related to Hirsch's research and on doctors in his field 1915-1917. Also contains the curriculum vitae of Dr. Theodore Cooper, with whom Hirsch collaborated on several studies of innervation.

Series XI: Family, includes the correspondence and writings of Edwin F. Hirsch's relatives: his wife Helen Kotas, his niece Norma Jean Hirsch and his aunt Selma Henke. Some of the correspondence to Helen Kotas Hirsch is in Czech. Also includes Selma Henke's history of the family, as well as memoirs of her time as a Methodist missionary in China 1901-1907.

Series XII: Audiovisual Materials, includes lantern slides for Hirsch's presentations on innervations, a presentation at the International College of Surgeons (1967), Morningside

Commencement Address (1955), and an audiotape of and video recordings of Hirsch's memorial service (1972).

Series XIII: Oversize, includes newspaper clippings (1954-1958), a scrapbook containing newspaper clippings related to Hirsch's work as a coroner on several famous murder investigations in the mid-1950s, photograph of Schwann's cell, proofs of his book *The Innervation of the Vertebrate Heart*, and numerous professional certificates and awards. Oversize materials have been moved to this series from Series I, V, VII, VIII, and IX.

Related Resources

The following related resources are located in the Department of Special Collections:

<http://www.lib.uchicago.edu/e/spcl/select.html>

Billings, Frank. Papers

Rush Medical College. Records

Subject Headings

- Billings, F. S. (Frank Seaver), 1845-1912
- Fenger, Christian, 1840-1902
- Hirsch, Edwin F. (Edwin Frederick), 1886-1972
- Heart -- Innervation
- Spanish Influenza Epidemic, 1918-1919
- Pathologists
- Physicians -- United States -- Biographies
- Hirsch family

INVENTORY

Series I: Biographical

Box 1

Folder 1

Photograph of Edwin F. Hirsch, undated

Box 1

Folder 2

Manuscript, "Biography of Edwin Frederick Hirsch (1886-1972)," undated

Box 1

Folder 3

Hyde Park Baptist Church, marriage service of Hirsch and Kotas, undated

Box 1

Folder 4

Newspaper clipping about his 75th birthday, 1961

Box 1

Folder 5

Photograph of Edwin F. Hirsch, circa 1965

Box 1

Folder 6

Photograph of Edwin F. Hirsch and others in Camp Grant with letter from Merritt R. Bach, circa 1917-1919

Box 1

Folder 7

Newspaper clipping about his early life in Wisconsin, undated

Box 1

Folder 8

Memorial Booklets, 1972

Box 1

Folder 9

Memorial book, Columbus Hospital, circa 1972

Box 1

Folder 10

Celebrations of the 100th anniversary of the birth of Edwin F. Hirsch, 1986

Box 1

Folder 11

Chicago Medicine, Vol. 75, No. 7, "Death of Dr. Edwin F. Hirsch," 1972

Box 1

Folder 12

Medicine on the Midway, Vol. 27, No. 2., "In Memoriam: Scientist, Scholar, Humanist: Edwin F. Hirsch, 1886-1972," 1972

Series II: Medical Education, circa 1905-1915

Box 1

Folder 13

Biology sketchbook, undated

Box 2

Folder 1

Pathology notebook, undated

Box 2

Folder 2

Pathology notebook II, undated

Box 2

Folder 3

Dissection sketches notebook, undated

Series III: Frank Billings Biography

Box 3

Folder 1

Photographs for book, Frank Billings, his family, and associates, undated

Box 3

Folder 2

Correspondence with the Billings family, circa 1970

Box 3

Folder 3

Correspondence and newspaper clippings, circa 1966-1967

Box 3

Folder 4

Acknowledgements of receipt for the Frank Billings book, 1968-1969

Box 3

Folder 5

Correspondence with printers, 1967

Box 3

Folder 6

Order forms, circa 1967

Box 3

Folder 7

Book, Frank Billings: The Architect of Medical Education, an Apostle of Excellence in Clinical Practice, A Leader in Chicago Medicine, 1966

Box 3

Folder 8

Book, Frank Billings: The Architect of Medical Education, an Apostle of Excellence in Clinical Practice, A Leader in Chicago Medicine, 1966

Series IV: Christian Fenger Biography

Box 4

Folder 1

Collected anecdotes about Christian Fenger, undated

Box 4

Folder 2

Correspondence with publishers, circa 1971

Box 4

Folder 3

Correspondence with Judith Nadler, 1966-1971

Box 4

Folder 4

Correspondence with Dr. Raleigh R. White, 1971

Box 4

Folder 5

Collected articles on Christian Fenger

Box 4

Folder 6

Acknowledgement of the book, 1971

Box 4

Folder 7

Manuscript, undated

Box 4

Folder 8

Book jacket, undated

Box 4

Folder 9

Book review, 1971

Box 4

Folder 10

Query to Chicago Board of Education, 1971

Series V: Innervation of the Vertebrate Heart

Box 4

Folder 11-16

Typescripts, The Innervation of the Vertebrate Heart, chapters 1-6, circa 1970

Box 5

Folder 1-9

Typescripts, The Innervation of the Vertebrate Heart, chapters 7-15, circa 1970

Box 5

Folder 10

Typescript, The Innervation of the Vertebrate Heart, references

Box 5

Folder 11

Drawing 4, circa 1970

Box 5

Folder 12

Correspondence with publisher, circa 1970

Box 5

Folder 13

Correspondence regarding The Innervation of the Vertebrate Heart

Box 5

Folder 14

Review of Innervation of the Vertebrate Heart, Chicago Medicine, 3 July 1971

Box 5

Folder 15

Order form, circa 1970

Series VI: Other Writings

Box 5

Folder 16

Untitled manuscript, 1918

Box 5

Folder 17

Illinois Medical Journal, Vol. 108, "Purposeful Living", August 1955

Box 5

Folder 18

Chicago Medical Society Bulletin, Vol. 63, No. 27, "The Hospital Care of Negroes and the Appointment of Negro Physicians to Medical Staffs of Hospitals in Chicago", 31 December 1960

Box 5

Folder 19

Chicago Medicine, Vol. 63 No. 33, "Editorial: Retreat from Excellence", February 11, 1961

Box 5

Folder 20

"The History of Pathology in Chicago," The Proceedings of the Institute of Medicine of Chicago, March 1963

Box 5

Folder 21

Reprints, The Innervation of the Human Heart, parts I-V, 1962-1963

Box 5

Folder 22

Correspondence, 1964

Box 5

Folder 23

Typescript, Introduction and Chapters 1,2 of The Innervation of the Human Heart, undated

Box 6

Folder 1

Typescript, The Innervation of the Human Heart, I: The coronary arteries and the myocardium, undated

Box 6

Folder 2

Typescript, The Innervation of the Human Heart, II: The papillary muscles, undated

Box 6

Folder 3

Typescript, The Innervation of the Human Heart, III: The conductive system, undated

Box 6

Folder 4

Typescript, The Innervation of the Human Heart, IV: 1. The fiber connections of the nerves with the perimysial plexus (Gerlach-Hofmann); 2. The role of nerve tissues in the repair of infarcts, undated

Box 6

Folder 5

Typescript, The Innervation of the Human Heart, V: A comparative study of the intrinsic innervations of the heart in vertebrates, undated

Box 6

Folder 6

Reprint, "The Terminal Innervation of the Heart", 1963

Box 6

Folder 7

Reprint, "Innervation of the Systemic Heart of the California Hagfish", 1964

Box 6

Folder 8

Correspondence regarding "Innervation of the Systemic Heart of the California Hagfish", 1963

Box 6

Folder 9

Reprints, "Experimental Heart Block in the Dog," parts I & II, 1964

Box 6

Folder 10

Reprint, "Regression of the intrinsic nerves and other sequelae of with reimplantation of the lung," The Journal of Thoracic and Cardiovascular Surgery Vol. 54, No. 9, 1967

Box 6

Folder 11

Chicago Medicine, Vol. 71, No. 25, "The Influenza Pandemic of Fifty Years Ago," 7 December 1968

Box 6

Folder 12

Typescript, "Chronic Wallerian Degeneration of the Septal Nerves", 1969

Box 6

Folder 13

Reprints, Innervation of the Mammalian Lung, 1968

Box 6

Folder 14

Correspondence regarding The Innervation of the Lung, 1969-1970

Box 6

Folder 15

Order forms, The Innervation of the Lung, circa 1969-1970

Box 7

Folder 1

Typescript, The Determination of Urea Nitrogen, undated

Box 7

Folder 2

Manuscript, Staining of Bacterial Capsules In Films, undated

Box 7

Folder 3

Typescript, Chapter 15: Relation of the Neurohormonal content of the Myocardium to the The Innervation of the Heart, undated

Box 7

Folder 4

Typescript, The Cardiac Innervation of Primates, undated

Box 7

Folder 5

Typescript, The Intrinsic Innervation of the Vertebrate Heart, undated

Box 7

Folder 6

Typescript, The Intrinsic Innervation of the Avian Heart, undated

Box 7

Folder 7

Typescript, p. 5 on Schwann cells, 5 photographs, manuscript, notes, undated

Box 7

Folder 8

Typescript, Die Innervation im Herzen der Wirbeltiere (German)

Box 7

Folder 9

Manuscript, "Bielchowski, Hassin – Allegranza", undated

Box 7

Folder 10

Typescript, "The Innervation of Respiratory Tissues in Terrestrial and Aquatic Vertebrates", undated

Box 7

Folder 11

Typescript, Analisi dei Fattori Causali Dell'Aterosclerosi (in Italian), undated

Box 7

Folder 12

Notecards, undated

Box 7

Folder 13

Notecards, undated

Box 7

Folder 14

Typescript, undated

Box 7

Folder 15

Correspondence, 1962-1965

Box 7

Folder 16

Notes, undated

Series VII: Medical Drawings and Photography

Box 7

Folder 17

Drawing 1, undated

Box 7

Folder 18

Drawing 2, undated

Box 7

Folder 19

Drawing 3, undated

Box 7

Folder 20

Drawing 4, undated

Box 7

Folder 21

Photographs

- Series 9639, numbers 1-24
- Series 9649, numbers 26-46, 48-50
- Series 9641, numbers 51-75
- Series 9642, numbers 76-79, 81-88, 90-100

Box 7

Folder 22

Photographs

- Series 9643, numbers 101-115, 117-120, 123, 125
- Series 9644, numbers 126-150
- Series 9645, numbers 151-156, 158-175
- Series 9646, numbers 176-195

Box 8

Folder 1

Reprints of drawings 1-4 and photographs from series 9639-9646, undated

Box 8

Folder 2

Enlargements of selected photographs from series 9639-9646, undated

Box 8

Folder 3

Photographs labeled Hofmann, Gerlach, Amienors, undated

Box 8

Folder 4

Photographs of cells, and of article "Neuromuscular and intercellular relationships in the coronary arterioles. A morphological and quantitative study by light and electron microscopy", undated

Box 8

Folder 5

Transparencies, undated

Box 8

Folder 6

Photocopy of cells, undated

Series VIII: Autopsies and Pathology

Box 8

Folder 7

Draft of the Illinois Coroner's Handbook and letter from Leo A. Ozier asking about corrections, 1971

Box 8

Folder 8

Book, Autopsy Manual, Departments of the Army, the Navy, and the Air Force, July 1960

Box 8

Folder 9

Book, Joint Committee on Aviation Pathology of the United Kingdom, Canada and the United States, 1959

Box 8

Folder 10

Book, Standard Technique of Meningococcus Carrier Detection, adopted by the Medical Departments of the United States Army and Navy and the United States Public Health Service, circa 1917-1919

Box 8

Folder 11

Correspondence about his work as a pathologist, 1965

Box 8

Folder 12

Newspaper clippings, "Dr. Hirsch Recalls '18 flu epidemic," Chicago Daily News, 27 December 1968.

Box 9

Folder 1-84

Autopsies Exhibit B, #1, #3-125, 1918-1919

Box 10

Folder 1-56

Autopsies #250-299-347, #349-369, 1918, 1919

Box 11

Folder 1-16

Autopsies #370-386, 1918, 1919

Series IX: Professional

Box 11

Folder 17

Certificate, Illinois State Board of Health, undated

Box 11

Folder 18

Certificate, American College of Physicians, 1946

Box 11

Folder 19

Certificate, College of American Pathologists, 1947

Box 11

Folder 20

Manuscript and correspondence regarding commencement speech at Morningside College, May 1955

Box 11

Folder 21

Certificate, Morningside College, conferring Doctor of Science, 1955

Box 11

Folder 22

Certificate, American Society of Clinical Pathologists, 1961

Box 11

Folder 23

Certificate, University of Chicago, Department of Pathology, 1964

Box 11

Folder 24

Certificate, University of Chicago, Department of Pathology, 1964

Box 11

Folder 25

Certificate, Presbyterian-St. Luke's Hospital, 1964

Box 11

Folder 26

Certificate, St. Luke's Hospital, 1964

Box 11

Folder 27

Certificate, Medical Alumni Association of the University of Chicago, 1966

Box 11

Folder 28

Certificate, Presbyterian-St. Luke's Hospital, 1969

Box 11

Folder 29

Certificate from President Richard Nixon, 1972

Box 11

Folder 30

Achievement Citation, WFJL radio, Lewis College, undated

Box 11

Folder 31

Certificate, Contributor to Encyclopaedia Britannica, undated

Box 11

Folder 32

Newspaper clippings about St. Luke's hospital, 1959

Box 11

Folder 33

Correspondence regarding professional awards, 1957-1961

Box 11

Folder 34

Correspondence and accounting documents related to Hirsch's trip to Italy, 1958

Box 11

Folder 35

The Proceedings of the Institute of Medicine of Chicago, Vol. 27, No. 3, "Negroes and Medicine in Chicago," May 1968

Box 11

Folder 36

Program, The Medical Alumni Reunion Banquet, The University of Chicago, 9 June 1966

Box 11

Folder 37

The Proceedings of the Institute of Medicine of Chicago, "Changing of the Guard," May 1968

Box 11

Folder 38

Speech on the Field Museum and Shedd Aquarium, undated

Box 11

Folder 39

Newspaper clippings regarding colleagues, 1969

Box 11

Folder 40

Professional correspondence, 1964-1970

Box 11

Folder 41

Booklets, 1966, 1972

Series X: Medical Articles by Others

Box 12

Folder 1

Reprint, H. Gideon Wells, "Some Features of Purine Metabolism" *The Journal of Laboratory and Clinical Medicine*, Vol. I No. 3, circa 1915

Box 12

Folder 2

Reprint, Russell M. Wilder, "Peritonitis Following Acute Ovaritis of Anginal Origin," *The Journal of the American Medical Association*, 19 February 1916

Box 12

Folder 3

Reprint, E.C. Schmitt, "Primary Carcinoma of the Ureter," *Journal of Cancer Research*, 4 October 1916

Box 12

Folder 4

Untitled typescript, circa 1918

Box 12

Folder 5

Typescript, Dr. Kliger, "Media and its Titration", March 1918

Box 12

Folder 6

Keishiro Kawamura, "Electron Microscope Studies on the Cardiac Conduction System of the Dog I. The Purkinje Fibers," *Japanese Circulation Journal*, Vol. 25, No. 6, June 1961 and "Electron Microscope Studies on the Cardiac Conduction System of the Dog: II. The Sinoatrial and Atrioventricular Nodes Plates 1 to 17)," *Japanese Circulation Journal*, Vol. 25, No. 10, October 1961

Box 12

Folder 7

Reprint, Lester R. Dragstedt, "An American by Choice: A Story about Dr. A. J. Carlson," *Perspectives in Biology and Medicine*, Vol. VII, No. 2, Winter 1964

Box 12

Folder 8

Photocopy and manuscript, V. E. Krahl, selection from "Anatomy of Mammalian Lung", c.a. 1964

Box 12

Folder 9

Bulletin of the Alumni Association, School of Medicine, Division of the Biological Sciences, University of Chicago, Vol. 21, No. 1, Spring-Autumn 1965

Box 12

Folder 10

Science, 6 August 1965

Box 12

Folder 11

The Proceedings of the Institute of Medicine of Chicago: Index No. 26, 1967-86; Vol. 26 No. 7, January 1967; Vol. 26 No. 3, March 1967; Vol. 27 No. 2, March 1968; Vol. 27 No. 6, November 1968; Vol. 27 No. 7, January 1969; Vol. 27 No. 9, May 1969; Vol. 28 No. 9, May 1971

Box 12

Folder 12

Maryland State Medical Journal, Vol. 17, No. 12, December 1968

Box 12

Folder 13

S. Blümke, "Morphologische Grundlagen der Lungeninnervation" and "Experimentell-morphologische Untersuchungen über die efferente Bronchusinnervation" I. Plexus peribronchialis (Experimental and Morphological Studies on the Efferent Bronchial Innervation I. The Peribronchial Plexus)", 1968

Box 12

Folder 14

Chicago Medicine, Vol. 71, No. 10, 11 May 1968

Box 12

Folder 15

Correspondence and reprints from David Jensen: "Intrinsic Cardiac Rate Regulation in the Sea Lamprey, *Petromyzon Marinus* and Rainbow Trout, *Salmo Gairdneri*" *Comp. Biochem. Physiol.*, Vol. 30 (1969); "Some Observations on Intrinsic Cardiac Rate Regulation in Several Marine Vertebrates," *Comparative and General Pharmacology*, Vol. 1, No. 2, 1970; "Intrinsic Cardiac Rate Regulation in Elasmobranchs: The Horned Shark, *Heterodontus Francisci*, and Thorback Ray, *Ptyalrhinoidis Triseriata*," *Comp. Biochem. Physiol.*, Vol. 34, 1970

Box 12

Folder 16

Articles by Kjell Johanson, "Air Breathing in Fishes" *Fish Physiology*, Vol. 4, 1970; "Comparative Physiology: Gas Exchange and Circulation in Fishes," *Annual Review of Physiology*, Vol. 33 (1971); "Airbreathing Fishes," *Scientific American* (October 1968)

Box 12

Folder 17

Copy, John S. Mills, PhD, "The Graduate Education of Physicians, An Editorial," *The Bulletin*; *The American College of Physicians*, No. 10, September 1969

Box 12

Folder 18

Chicago Medicine, Vol. 74, No. 15, 17 July 1971

Box 12

Folder 19

Selections from Science magazine, 1971

Box 12

Folder 20

Curriculum Vitae, Dr. Theodore Cooper, undated

Series XI: Family

Box 13

Folder 1

Helen Kotas Hirsch correspondence and pin "Life Member, American Federation of Musicians," circa 1966-1986

Box 13

Folder 2

Norma Jean Hirsch, correspondence, 1964-1966

Box 13

Folder 3

Selma Henke, correspondence, 1956-1972

Box 13

Folder 4

Selma Henke's history of the family and memoirs of missionary work in China, undated; Typescript, "Mother's Choice", 1969; letter from O.K.S. noting historical discrepancies in the memoirs, undated

Box 13

Folder 5

Personal correspondence to Mr. and Mrs. Hirsch, 1967

- Series XII: Audiovisual Materials

Box 14

Lantern slides, cells, undated

Box 14

Audiotape, memorial service, 1972

Box 14

Video reel, memorial service, 1972

Box 14

Video reel, memorial service, 1972

Box 14

Video reel, untitled, undated

Box 14

Video reel, Morningside Commencement Address, 1955

Box 14

Video reel, Presentation, The Growth of Forensic Pathology in Illinois, 1967

Box 14

Series XIII: Oversize

Box 15

Folder 1

Newspaper clippings about famous murder investigations 1954

Box 15

Folder 2

Newspaper clippings about famous murder investigations 1958

Box 15

Folder 3

Scrapbook of clippings regarding famous murder cases Hirsch was worked on in the mid-1950s

Box 15

Folder 4

Photograph, Schwann's cell, undated

Box 15

Folder 5

Certificates and photographs

- Certificate, $\Sigma\chi\Delta$
- Certificate, Charles City College, 1905
- Certificate, Northwestern University, 1910
- Certificate, Society of Sigma Xi, 1910
- Certificate, American Medical Association, 1911
- Certificate, University of Illinois, 1911
- Certificate, Alpha Omega Alpha, 1914
- Certificate, University of Chicago, ca 1914, date is written in Latin
- Certificate, Rush College, 1915, date is in Latin
- Photograph, Resident Staff, Presbyterian Hospital, 1915-1916
- Certificate, State of Illinois, Physicians Certificate, 1916
- Certificate, American National Red Cross, 1917
- Certificate, Interne, Presbyterian Hospital, 1917
- Certificate, American College of Physicians, 1947
- Certificate, College of American Pathologists, 1958

Box 15

Folder 6

Proofs, The Innervation of the Vertebrate Heart, 1968