

**MEDICAL CENTER ARCHIVES
OF
NEWYORK-PRESBYTERIAN/WEILL CORNELL**

**1300 York Avenue # 34
New York, NY 10065**

**Finding Aid To
THE FREDERICK GUDERNATSCH (1881-1962) PAPERS**

**Dates of Papers:
1897-1960**

**27.5 Linear Inches
(6 Boxes)**

**Finding Aid Prepared By:
Elizabeth Shepard
Assistant Archivist**

NOTE OF PROVENANCE:

Dr. L. Dreyfus donated the papers in August 1989.

BIOGRAPHICAL NOTE:

Dr. J. Frederick Gudernatsch was born on January 8, 1881 in Eisenach, Germany. He received a PhD in Science from the German University Prague in 1910 and a PhD from University of Munich Medical School in 1912. He immigrated to the United States in 1907. From 1907-1920, he taught anatomy, histology, physiology, and endocrinology at Cornell University Medical College. He started as an instructor and was promoted to an assistant professor in 1915 and full professor of anatomy in 1920. From 1920-1943, he worked at the Hoffman LaRoche Laboratories in Nutley as a scientific advisor and later starting in 1929 the scientific director. From 1928-1946, he was a visiting research professor of biology at New York University. From 1950-1959, he worked at the Arctic Aero Medical Bibliographic Service at Cornell University Medical College.

His main areas of interest were the field of comparative physiology with an emphasis on endocrinology and chemistry of normal and pathological growth. In 1912, he was the last person to use tadpoles to measure the amount of thyroid hormone in an unknown solution to study the effect of the thyroid hormone on development. He also worked with Dr. Eugene DuBois, Chairman of the Physiology Department at Cornell University Medical College, on the exposure to cold and on the Arctic Aero Medical project based in Alaska.

He died in October 1962.

SCOPE AND CONTENTS NOTE:

The Frederick Gudenatsch papers are organized into six series: General Correspondence (1952-1958), Societies Correspondence (1940-1958), Speeches and Lectures (1917-1954), Reprints (1907-1960), Drawings (1930's), and Miscellaneous (1897-1962).

General Correspondence, 1952-1958

This series is arranged alphabetically by subject. It includes correspondence about the Antarctica Research (1958), Arctic Aero Medical Project in Alaska and Marine Biology Research Laboratories at Wood's Hole, MA. Also contains correspondence with Dr. Eugene DuBois, 1956-1957. Eugene DuBois was the chairman of the Physiology Department at Cornell University Medical College.

Societies Correspondence, 1940-1958

This series is arranged alphabetically by organization. It includes correspondence with American Association of Anatomists, 1955; American Cancer Society, 1956; American Goiter Association, 1957-1958; American Medical Association, 1957; American Physiological Society, 1953-1957; Arctic Aeromedical Laboratory, Alaska, 1940's-1950's, Carl Schurz Memorial Foundation, 1956; Endocrinological Institute of America; Federation of American Societies, 1954; International Physiological Congress, 1952; Laurentian Hormone Conference, 1951-1958; National Academy of Sciences, 1954-1955; Society of General Physiologists, 1951-1958 and Yale Conference, 1956.

Speeches and Lectures, 1917-1954

This series, arranged chronologically, contains drafts of speeches and lectures on endocrinology, amino acids, chemistry, and hormones and their relationship to normal and pathological growth.

Reprints and Drafts, 1907-1960

This series, arranged chronologically, contains reprints and drafts of articles on his research on endocrinology, amino acids, chemistry, and hormones and their relationship to normal and pathological growth. Also includes his research using tadpoles and rats.

Drawings, 1930's

Drawings and charts for his publications and research on his feeding tadpoles and general amino acid research. Also included are galleries of the **Glands of Internal Secretion** article for Morris Anatomy.

Miscellaneous, 1897-1962

Miscellaneous material includes biographical information and questions for the New York State medical exam in 1897.

BOX AND FOLDER LIST

BOX 1: GENERAL CORRESPONDENCE

Folder	Description
1	Antarctica Research, 1958
2	Barr, David, 1955
3	Benzinger, Rolf, 1953
4	Bern, Howard, 1958

5 Blakiston Division of McGraw Hill (Mr. William Keller), 1957
6 Chambers, Drs. William and Robert, 1956-1957
7 Albert Daub and Company and Frederick Unger Company, 1955-1958
8 Dill, D. B., 1958
9 DuBois, Eugene, 1956-1957
10 Du Vigneaud, Vincent and Marilyn, 1955-1956
11 General Biological Supply House, 1954
12 Giessen, U., 1957-1958
13 Glassner, F. X., 1955
14 Greenwald, Dr. Isidor, 1957
15 Hardy, James, 1954-1957
16 Hinsey, Joseph, 1955
17 Horton, Bill, MD, 1957
18 Ingle, Dwight, 1952-1958
19 Mothes, Kurt, 1956
20 Oberlin College Gilbert and Sullivan Players, 1957
21 Personal Correspondence, A-M, 1952-1958
22 Personal Correspondence, N-Z, 1951-1958
23 Rodahl, Kaare, MD, 1957-1958
24 Roth, Paul, 1955-1958
25 Rugh, Roberts, 1952-1957
26 Schaeffer, J. Parsons, 1954
27 Scharrer, B. & E., 1955
28 Siemens, H. W., 1945-1953
29 Simmons, Vaughan, 1955
30 Spek, J., 1957
31 Stefansson, Vihjalmur, 1955-1957
32 Szent-Gyorgyi, Andrew
33 Thauer, R., 1958
34 Tromp, S. W., 1957
35 Von Muller, Friedrich, 1955
36 Young, Albert, 1955-1956
37 Zarrow, Meyer, 1954

BOX 2: CORRESPONDENCE, SOCIETIES

1 American Association of Anatomists, 1955
2 American Cancer Society, 1956
3 American Goiter Association, 1957-1958
4 American Medical Association, 1957
5 American Physiological Society, 1953-1957
6 Arctic Aeromedical Laboratory, Alaska, 1940's
7 Carl Schurz Memorial Foundation, 1956
8 Endocrinological Institute of America, n.d.
9 Federation of American Societies, 1954
10 International Physiological Congress, 1952

- 11 Laurentian Hormone Conference, programs, 1951-1958
- 12 Miscellaneous societies, 1953-1958
- 13 National Academy of Sciences, 1954-1955
- 14 Society of General Physiologists, 1951-1958
- 15 Yale Conference, 1956

BOX 2: SPEECHES AND LECTURES

- 16 "Feeding Rats on Glands of Internal Secretion," American Association of Anatomists, 1917
- 17 "Disturbances in the Development of Mammalian Embryos Caused by Radiation," New Haven Meeting, May 22, 1920
- 18 Speech on Amino Acids, December, 16, 1930
- 19 "Amino Acids as Factors in Growth and Differentiation," Montreal Meeting, 1931
- 20 "Amino Acids as the only Nitrogen Source during Growth Differentiation," Academy of Medicine, 1931
- 21 "Specific Chemical Factors Influencing Growth and Differentiation," Cold Springs Harbor Symposium, 1934
- 22 Speech on Hormones, N. Y. U. Group, April 19, 1940
- 23 Special Lecture: "The Influence of some Endocrine Factors in Tooth Development," New York University Graduate School, April 9, 1943
- 24 "Development of Endocrinology," 1954
- 25 Speech on Amino Acids, n.d.
- 26 Lecture: Endocrine and Teeth, n.d.
- 27 Lectures: Endocrine, n.d.

BOX 3: REPRINTS AND DRAFTS

- 1 Reprints, 1907-1913
- 2 "Feeding Experiments on Amphibian Larvae," draft, 1912
- 3 Reprints, 1914-1918
- 4 Ueber den Wahn, draft, 1914

(Shelf Sep) **Gundernatsch Collected Papers,** reprints, 1915-1938

- 5 Reprints, 1920-1926
- 6 "A Great Health Campaign," draft, 1920
- 7 Reprints, 1930-1931
- 8 Die Rolle Aminos Aeuren in Wachstuma, 1931
- 9 Reprints, 1932-1935
- 10 "Differentiation as Effected by Diiodo-Tyrosine Plus Certain Other Amino Acids," 1932
- 11 "Differentiation Factor in Thyroxin," draft, 1934

- 12 "Some Observations on Modification of Thyroxin Action in
Development," draft, 1934
- 13 "Factors Antagonizing the Section of the Thyroxin," draft, 1935
- 14 "Study of the Physiological Value of Amino Acids," draft, 1935
- 15 Reprints, 1936
- 16 "Study of the Physiological Value of Amino Acids," draft, 1936
- 17 Reprints, 1937-1938
- 18 "Significance Other than Nutritive of Amino Acids in Development,"
draft, 1937
- 19 "Cholinergic Nerves w/ Muscarine Type Transmission," draft, 1938
- 20 "Essential Amino Acids in Nutrition," draft, 1938

BOX 4: REPRINTS AND DRAFTS

- 1-2 Paper on Growth, 1930's
- 3 Reprints, 1940-1944
- 4 Seminar Reports, 1941-1944
- 5 Endocrine Research, 1952
- 6 Tadpole Research, 1952
- 7 "Out of the Early Cornell Years," 1958
- 8 Reprints, 1960
- 9 "As the Lights Went Out: Three Episodes," draft, n.d.
- 10-11 Endocrine Research, drafts, n.d.
- 12 Hormone article, draft, n.d.
- 13 "Mechanics and Physiology of Development Growth and
Differentiation," draft, n.d.
- 14 "The Phylogenetic History of Endocrine Structures," draft, n.d.
- 15 "Proposal for a Treatise on the Phylogenetic Significance of Internal
Secretion," draft, n.d.
- 16 Sugars and Hormonal Regulators of Sugar Metabolism in Relation to
the Activity of Thyroxin," draft, n.d.
- 17 Thyromine, draft, n.d.
- 18 Thymus, draft, n.d.
- 19 "Thyroid Research with Tadpoles and Rats," drafts, n.d.

BOX 5: REPRINTS AND DRAFTS

- 1 Part of unknown article, n.d.
- 2 Unknown manuscript, n.d.
- 3 Unknown manuscript in German, n.d.
- 4 Unknown manuscript in German, n.d.

Reprints by other Cornell Faculty

- 5-6 Morrell, Charles, Anatomy of the Lower Extremity, 1947
- Morrell, Charles, Anatomy of the Abdomen and Pelvis, 1948

Morrell, Charles, Anatomy of the Neck and Head, 1948
Morrell, Charles, Anatomy of the Thorax and Back, 1948
Morrell, Charles, Anatomy of the Upper Extremity, 1948

Reprints by other faculty at other New York City medical schools

- 7 Reprints by Olive Hoffman (NYU) (Gudernatsch wrote several articles with her), 1934
- (shelf sep) Reprints from Roche Research Laboratories (dedicated to Dr. Gudernatsch), 1937-1945
- 8 Reprints by Charles Kerley, Bradley Coley, John Pool, Carl Eggers, A. Benson Cannon, 1940-1945
- 9 Newspaper clippings, mostly about Alaska and Wood's Hole Research Laboratories, 1950's

BOX 6: DRAWINGS AND CHARTS (oversize)

Drawings and charts for Gudernatsch publications or speeches. for tadpole and general amino acid research, 1930's. Also gallery proofs for Glands of Internal Secretion, 1930's

BOX 5: MISCELLANEOUS

(shelf sep) Autograph Book

- 10 Bernard, Claude, document written in French
- 11 Biographical information
- 12 Poetry and portrait of unknown person
- 13 Questions for a medical exam (for the State of New York), 1897