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


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 is 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

<table>
<thead>
<tr>
<th>Folder</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>Antarctica Research, 1958</td>
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<tr>
<td>2</td>
<td>Barr, David, 1955</td>
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<tr>
<td>3</td>
<td>Benzinger, Rolf, 1953</td>
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<tr>
<td>4</td>
<td>Bern, Howard, 1958</td>
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</table>
Blakiston Division of McGraw Hill (Mr. William Keller), 1957
Chambers, Drs. William and Robert, 1956-1957
Albert Daub and Company and Frederick Unger Company, 1955-1958
Dill, D. B., 1958
DuBois, Eugene, 1956-1957
Du Vigneaud, Vincent and Marilyn, 1955-1956
General Biological Supply House, 1954
Giessen, U., 1957-1958
Glassner, F. X., 1955
Greenwald, Dr. Isidor, 1957
Hardy, James, 1954-1957
Hinsey, Joseph, 1955
Horton, Bill, MD, 1957
Ingle, Dwight, 1952-1958
Mothes, Kurt, 1956
Oberlin College Gilbert and Sullivan Players, 1957
Personal Correspondence, A-M, 1952-1958
Personal Correspondence, N-Z, 1951-1958
Rodahl, Kaare, MD, 1957-1958
Roth, Paul, 1955-1958
Rugh, Roberts, 1952-1957
Schaeffer, J. Parsons, 1954
Scharrer, B. & E., 1955
Siemens, H. W., 1945-1953
Simmons, Vaughan, 1955
Spek, J., 1957
Stefansson, Vihjalmur, 1955-1957
Szent-Gyorgyi, Andrew
Thauer, R., 1958
Tromp, S. W., 1957
Von Muller, Friedrich, 1955
Young, Albert, 1955-1956
Zarrow, Meyer, 1954

BOX 2: CORRESPONDENCE, SOCIETIES

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
Carl Schurz Memorial Foundation, 1956
Endocrinological Institute of America, n.d.
Federation of American Societies, 1954
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
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
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 Wahen, draft, 1914

(Sheep 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
“Some Observations on Modification of Thyroxin Action in Development,” draft, 1934

“Factors Antagonizing the Section of the Thyroxin,” draft, 1935

“Study of the Physiological Value of Amino Acids,” draft, 1935

Reprints, 1936

“Study of the Physiological Value of Amino Acids,” draft, 1936

Reprints, 1937-1938

“Significance Other than Nutritive of Amino Acids in Development,” draft, 1937

“Cholinergic Nerves w/ Muscarine Type Transmission,” draft, 1938

“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.


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


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