

University of Chicago Library

# Guide to the Frank R. Lillie Papers 1899-1941



© 2007 University of Chicago Library

## **Table of Contents**

Descriptive Summary	3
Information on Use	3
Access	3
Citation	3
Biographical Note	3
Scope Note	4
Related Resources	4
Subject Headings	4
INVENTORY	4
Series I: General Correspondence	5
Series II: University Correspondence	14
Series III: Research and Publications	16

## **Descriptive Summary**

**Identifier** ICU.SPCL.FRLILLIE

**Title** Lillie, Frank R. Papers

**Date** 1899-1941

**Size** 7 linear feet (14 boxes)

**Repository** Special Collections Research Center  
University of Chicago Library  
1100 East 57th Street  
Chicago, Illinois 60637 U.S.A.

**Abstract** The papers of zoologist Frank R. Lillie cover the period 1899-1941 and include correspondence and research files. The correspondence concerns colleagues and students as well as administrative correspondence from his time as chairman of the Zoology Department. The correspondence also includes material from his responsibilities at the Marine Biological Laboratory at Woods Hole, Massachusetts, which he helped to establish. The collection also contains Lillie's extensive research in the form of loose notes, drawings and 30 laboratory notebooks. These notebooks span the period from 1901-1929 and include Lillie's detailed observations on his scientific work, most of it conducted at Woods Hole. The collection also includes drafts of Lillie's articles, lectures and demonstrations as well as a few of his published articles.

## **Information on Use**

### **Access**

The collection is open for research.

### **Citation**

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

## **Biographical Note**

The career of Frank Rattray Lillie (1870-1947) as teacher, researcher, and "statesman of science," began under the tutelage of Charles O. Whitman. After Lillie received his doctorate from the University of Chicago in 1894, he entered upon a lifetime of fruitful zoological research. His primary interests were in experimental embryology, fertilization, sex hormones, and sex differentiation. In addition to research, much of Lillie's time was consumed by administration. First among his many accomplishments was the development of the Marine

Biological Laboratory at Woods Hole, Massachusetts. During his chairmanship of the Zoology Department at the University of Chicago, 1910 to 1931, Lillie not only maintained an active research program but also revitalized the teaching program on both the graduate and the undergraduate levels. He held presidencies in the National Research Council and the National Academy of Science. In 1931, Lillie became Dean of the Biological Sciences Division of the University of Chicago.

### **Scope Note**

The Frank R. Lillie papers consist of 7 linear feet of material and cover the period 1899-1941. The papers have been arranged into three series. The first, General Correspondence, contains the general correspondence of Lillie during the period of his chairmanship of the Zoology Department. This correspondence, arranged alphabetically, is primarily between Lillie and his colleagues, both at the University and elsewhere, and students. These letters reflect Lillie's administrative responsibilities in the department and at Woods Hole as well as his interest and accomplishments in the area of research. Series II, University Correspondence, is the correspondence between Dr. Lillie, as department chairman from 1910 to 1931, and other administrative offices of the University such as the President's office, the Dean of Students, etc. The third series, Research and Publications, contains Lillie's research notes and a few publications. Lillie's extensive research notes include loose notes, drawings and 30 laboratory notebooks. These notebooks span the period from 1901-1929 and include Lillie's detailed observations on his scientific work, most of it conducted at the Marine Biological Laboratory in Woods Hole, Massachusetts. The series also includes drafts of Lillie's articles, lectures and demonstrations as well as a few of his published articles. Lillie's research notes highlight his interest in cattle as a focus for his work on experimental embryology, fertilization, sex hormones, and sex differentiation.

### **Related Resources**

The following related resources are located in the Special Collections Research Center:

Browse finding aids by topic.

Allee, Warder Clyde. Papers

Department of Zoology. Records

Whitman, Charles O. Papers

### **Subject Headings**

- Lillie, Frank R.
- University of Chicago. Department of Zoology
- Marine Biological Laboratory (Woods Hole, MA)
- Zoology
- Zoologists

### **INVENTORY**

## **Series I: General Correspondence**

### **Box 1**

#### **Folder 1**

Adams, C. F.

### **Box 1**

#### **Folder 2**

Adams, Otto

### **Box 1**

#### **Folder 3**

Allee, W. C.

### **Box 1**

#### **Folder 4**

Allen, Bennett M.

### **Box 1**

#### **Folder 5**

American Association for the Advancement of Science, 1914-1921

### **Box 1**

#### **Folder 6**

American Association for the Advancement of Science, 1929-1930

### **Box 1**

#### **Folder 7**

American Association of University Professors

### **Box 1**

#### **Folder 8**

American Eugenics Society

### **Box 1**

#### **Folder 9**

American Philosophical Society

### **Box 1**

#### **Folder 10-11**

American Society of Naturalists

### **Box 1**

#### **Folder 12**

American Society of Zoologists

### **Box 1**

#### **Folder 13**

Appel, Fred W.

### **Box 1**

#### **Folder 14**

Ashworth, J. H.

### **Box 1**

#### **Folder 15**

Association of American Universities

### **Box 1**

#### **Folder 16**

Bachman, Frank P.

**Box 1**

**Folder 17**

Bacon, C. S.; Barth, L. S.; Bartlett, H. H.

**Box 1**

**Folder 18**

Bascom, K. F.

**Box 1**

**Folder 19**

Baskerville, C. R.

**Box 1**

**Folder 20**

Bean, R. J.; Behre, Ellinor

**Box 1**

**Folder 21**

Bellamy, A. W.

**Box 2**

**Folder 1**

Bingham, H. L.

**Box 2**

**Folder 2**

Biological Abstracts; Biological Bulletin

**Box 2**

**Folder 3**

Bissonette, T. H.

**Box 2**

**Folder 4**

Bowen, R. H.

**Box 2**

**Folder 5**

Brehmer, W.

**Box 2**

**Folder 6**

Brockett, Delores

**Box 2**

**Folder 7**

Buchanan, J. W.

**Box 2**

**Folder 8**

Calkins, Gary

**Box 2**

**Folder 9**

Carp, Irene

**Box 2**

**Folder 10**

Castle, W. E.; Cattell, J. M.

**Box 2**

**Folder 11**

Caullery, Maurice

**Box 2**

**Folder 12**

Chen, B. K.

**Box 2**

**Folder 13**

Child, C. M.; Clark, H. L.

**Box 2**

**Folder 14**

Clowes, G. H. A.; Cobb, N. A.

**Box 2**

**Folder 15**

Cole, Leon J.

**Box 2**

**Folder 16**

Cole, William H.

**Box 2**

**Folder 17**

Collins, H. H.

**Box 2**

**Folder 18**

Conklin, E. G.

**Box 2**

**Folder 19**

Cook, Freeman; Coulter, John M.

**Box 2**

**Folder 20**

Crane, Richard; Crew, F. A. E.

**Box 2**

**Folder 21**

Crozier, W. J.

**Box 2**

**Folder 22**

Curtis, W. C.

**Box 2**

**Folder 23**

Cytology - General Correspondence regarding A Textbook of Cytology - E. V. Cowdry and E. E. Just

**Box 3**

**Folder 1**

Deibler, F. S.

**Box 3**

**Folder 2**

Detlefsen, J. A.; Detwiler, S. R.; DeVine, J. F.

**Box 3**

**Folder 3**

Dexter, Raquel; Dodson, J. M.

**Box 3**

**Folder 4**

Duesberg, -----

**Box 3**

**Folder 5**

Eliot, Theodore S.

**Box 3**

**Folder 6**

Elmore, C. J.; Esaki, Shiro

**Box 3**

**Folder 7**

Essenberg, J. M.

**Box 3**

**Folder 8**

Eugenics, International Congress

**Box 3**

**Folder 9**

Eugenics Committee of the U.S.A.

**Box 3**

**Folder 10**

Evans, L. T.

**Box 3**

**Folder 11**

Evolution - General correspondence regarding subject of

**Box 3**

**Folder 12**

Fankhauser, G.; Faure-Fremiet, E.; Fay, Henry

**Box 3**

**Folder 13**

Field, Hazel; Fillery, Emery

**Box 3**

**Folder 14**

Fisher, W. K.; Fishbein, Morris

**Box 3**

**Folder 15**

Francis, Mark; Frank, Robert

**Box 3**

**Folder 16**

Gates, R. R.; Gates, William H.

**Box 3**

**Folder 17**

Genetics - Sixth International Congress

**Box 3**



**Folder 18**

Gilbert, Ross W.; Gilchrist, F. G.

**Box 3**

**Folder 19**

Goldfarb, A. J.; Gower, John W.

**Box 3**

**Folder 20**

Gray, George M.

**Box 3**

**Folder 21**

Gray, J.; Green, Charles W.

**Box 3**

**Folder 22**

Greenman, Milton J.

**Box 3**

**Folder 23**

Griffen, Robert H.

**Box 3**

**Folder 24**

Gudernatsch, J. F.

**Box 4**

**Folder 1**

Hapgood, Norman

**Box 4**

**Folder 2**

Harrison, Ross G.

**Box 4**

**Folder 3**

Heath, Harold

**Box 4**

**Folder 4**

Helf, O. M.

**Box 4**

**Folder 5**

High School Zoology Examination - Related Correspondence

**Box 4**

**Folder 6**

Hinrichs, Marie

**Box 4**

**Folder 7**

Hitchings, J. M.

**Box 4**

**Folder 8**

Hoadly, Leigh

**Box 4**

**Folder 9**

Hoar, D. B.

**Box 4**

**Folder 10**

Holmes, S. J.

**Box 4**

**Folder 11**

Holmgren, Nils

**Box 4**

**Folder 12**

Honda, H.

**Box 4**

**Folder 13**

Hunt, H. R.; Hunt, J. W.; Hutt, F. B.; Hyman, Libbie

**Box 4**

**Folder 14**

Illinois State Academy of Science; Ingraham, Helen

**Box 4**

**Folder 15**

Inomata, S.; Ives, J. D.

**Box 4**

**Folder 16**

Jennings, H. S.

**Box 4**

**Folder 17**

Jewell, F. M.

**Box 4**

**Folder 18**

Johnson, George E.

**Box 4**

**Folder 19**

Jurgens, Hilsie

**Box 4**

**Folder 20**

Just, E. E.

**Box 4**

**Folder 21**

Keller, Karl; Kennedy, James C.

**Box 4**

**Folder 22**

Kislovsky, D.; Klassen, H.; Knauss, C. R.

**Box 4**

**Folder 23**

Kofoid, C. A.

**Box 4**

**Folder 24**

Krizenecky, J.

**Box 4**

**Folder 25**

Krone, Jessie; Kudo, T.

**Box 5**

**Folder 1**

Laing, Gordon G., University of Chicago Press

**Box 5**

**Folder 2**

Landauer, Walter

**Box 5**

**Folder 3**

Leidey, Joseph Commerative Committee

**Box 5**

**Folder 4**

Lewis, Frederick T.; Linebach, P. E.; Linton, E.; Lipschutz, Z.

**Box 5**

**Folder 5**

Locy, William Albert (Obituary)

**Box 5**

**Folder 6**

MacDonald, Arthur C.

**Box 5**

**Folder 7**

MacDougall, Alice; MacDougall, M. S.

**Box 5**

**Folder 8**

McLaughlin, A. C.; McLean, -----

**Box 5**

**Folder 9**

Macallum, A. B.

**Box 5**

**Folder 10**

Marceli, Nencki Institute; Martin, Bertha

**Box 5**

**Folder 11**

Mead, A. D.; Metcalf, Maynard

**Box 5**

**Folder 12**

Metz, C. W.

**Box 5**

**Folder 13**

Miles, W. R.; Milne, A. W.; Minnich, D. E.

**Box 5**

**Folder 14**

Mitchell, J. B.

**Box 5**

**Folder 15**

Miyajima, M.; Moore, Carl R.

**Box 5**

**Folder 16**

Murray, Margaret R.

**Box 5**

**Folder 17**

Myers, Victor C.

**Box 5**

**Folder 18**

Newman, H. H.

**Box 5**

**Folder 19**

Nisbet, Oliver; Noguchi Memorial Society; Nonidez, Jos.

**Box 5**

**Folder 20**

Ohishimi, Hiroshi; Osborn, Herbert

**Box 5**

**Folder 21**

Packard, Charles; Park, Orlando

**Box 5**

**Folder 22**

Pasquin, P.; Patel, J. S.; Patterson, J. T.

**Box 5**

**Folder 23**

Peairs, L. M.

**Box 5**

**Folder 24**

Peterson, J. H.; Pettit, A.; Phillips, John R.

**Box 5**

**Folder 25**

Popa, Gregor T.

**Box 5**

**Folder 26**

Pope, T. E. B.; Powers, Edwin

**Box 5**

**Folder 27**

Prentis, Charles; Prizbram, Hans

**Box 5**

**Folder 28**

Quarterly Review of Biology

**Box 5**

**Folder 29**

Ritter, W. E.

**Box 5**

**Folder 30**

Rowan, William; Royal Society of Canada

**Box 6**

**Folder 1**

Santos, Felix

**Box 6**

**Folder 2**

Saturday Review of Literature

**Box 6**

**Folder 3**

Science Service Corporation

**Box 6**

**Folder 4**

Scripps Institution of Oceanography

**Box 6**

**Folder 5**

Sears, Roebuck Inc., Technical Laboratory

**Box 6**

**Folder 6**

Sharp, Paul E.; Shelford, V. E.

**Box 6**

**Folder 7**

Shull, A. Franklin

**Box 6**

**Folder 8**

Shull, George

**Box 6**

**Folder 9**

Sigma Xi (Virginia Chapter)

**Box 6**

**Folder 10**

Sinclair, John G.

**Box 6**

**Folder 11**

Societe Nationale des Science Naturelles; Societe Royale des Sciences Medicales

**Box 6**

**Folder 12**

Sokoloff, Boris; Spurling, R. G.

**Box 6**

**Folder 13**

Stieglitz, Julius

**Box 6**

**Folder 14**

Toronto, University of

**Box 6**

**Folder 15**

Truitt, R. V.

**Box 6**

**Folder 16**

Van Horn, G. E.

**Box 6**

**Folder 17**

Vaughn, Victor C., National Research Council; Vincent, L. C.

**Box 6**

**Folder 18**

Wang, Chi Che; Washburne, C. W.; Watase, S. (Obituary)

**Box 6**

**Folder 19**

Weber, Friedel

**Box 6**

**Folder 20**

Wells, H. G., Science of Life, review by F. R. L.; Wells, H. M. (Obituary)

**Box 6**

**Folder 21**

Whiting, Anna

**Box 6**

**Folder 22**

Wilcox, Alice

**Box 6**

**Folder 23**

Wilson, E. B.

**Box 6**

**Folder 24**

Wistar Institute

**Box 6**

**Folder 25**

Witschi, Emil

**Box 6**

**Folder 26**

Yamanuchi, Shigeo

**Box 6**

**Folder 27**

Young, Roger Arliner

**Box 6**

**Folder 28**

Young, William C.

**Box 6**

**Folder 29**

Ziegler, Lloyd

## **Series II: University Correspondence**

**Box 7**

**Folder 1**

Arts, Literature, and Science (Dean Robertson)

**Box 7**

**Folder 2**

Association of the Doctors of Philosophy

**Box 7**

**Folder 3**

Auditor's Office, (Arnett, Trevor)

**Box 7**

**Folder 4**

Auditor's Office, (Plimpton, M. C.)

**Box 7**

**Folder 5**

Board of Recommendations

**Box 7**

**Folder 6-9**

Buildings and Grounds (Flook, L. R.; Douglas, B. M.; Rouse, H. W.)

**Box 7**

**Folder 10**

Cashier's Office (Moulds, J. F.)

**Box 7**

**Folder 11**

College, University of Chicago

**Box 7**

**Folder 12-13**

Comptroller's Office

**Box 7**

**Folder 14**

Counselor's Office, (Fairweather, G. O.)

**Box 7**

**Folder 15**

Counselor's Office, (Heckman, Wallace)

**Box 8**

**Folder 1**

Dean of Students (Harvey, B. C. H.)

**Box 8**

**Folder 2**

Faculties of Art, Literature, and Science (Dean Angell)

**Box 8**

**Folder 3**

Graduate Office (Salsbury, R. D.)

**Box 8**

**Folder 4**

Library, General

**Box 8**

**Folder 5**

Library (Burton, Ernest D.)

**Box 8**

**Folder 6**

President's Office, (Burton, Ernest D.)

**Box 8**

**Folder 7**

President's Office, (Filbey, Emery T.)

**Box 8**

**Folder 8**

President's Office, (Judson, H. P.)

**Box 8**

**Folder 9**

President's Office, Assistant

**Box 8**

**Folder 10**

Purchasing Department, 1917-1922, (Dinsmoor, John C.)

**Box 8**

**Folder 11**

Purchasing Department, 1927-1935

**Box 8**

**Folder 12**

Quadrangle Club

**Box 8**

**Folder 13**

Recorder's Office

**Box 8**

**Folder 14**

Trustees, (Dickerson, J. S.)

**Box 8**

**Folder 15**

University of Chicago Press

**Box 8**

**Folder 16**

University Laboratories (Stieglitz, Julius)

**Box 8**

**Folder 17**

Vice President and Business Manager (Moore, Howard)

**Box 8**

**Folder 18**

Vice President's Office (Woodward, Frederic)

**Series III: Research and Publications**

**Box 9**

**Folder 1**

Notes, summer 1899

**Box 9**

**Folder 2**



Diagrams, drawings and notes, circa 1902-1902

**Box 9**

**Folder 3**

Segregation of substances experiment, notes, 1904

**Box 9**

**Folder 4**

Notes, 1904

**Box 9**

**Folder 5**

Diagrams, drawings and notes, circa 1905-1915

**Box 9**

**Folder 6**

Preparations experiments, notes, 1909

**Box 9**

**Folder 7**

Records of partial sperm nuclei, research notes, 1909-1911

**Box 9**

**Folder 8**

Free martins, literature and notes, 1912

**Box 9**

**Folder 9**

Holstein-Friesian cattle, research, 1919

**Box 9**

**Folder 10**

Shorthorn cattle, research, 1919

**Box 9**

**Folder 11**

Human twins, notes, 1921

**Box 9**

**Folder 12**

Nereis, notes and diagrams, n.d.

**Box 9**

**Folder 13**

Drawings and sections, 1921

**Box 9**

**Folder 14**

Research, drawings and folders, 1921

**Box 10**

**Folder 1**

Biliminal sex differentiation in cattle, notes and drawings, 1921

**Box 10**

**Folder 2**

Free martins, drawings and sections, 1922

**Box 10**

**Folder 3**

Cattle embryos and free martins, notes, 1922

**Box 10**

**Folder 4**

"Role of Cell Division in Development," draft, n.d.

**Box 10**

**Folder 5**

II and III Nereis polarity and bilarity, localization of granules and inclusions, draft, n.d.

**Box 10**

**Folder 6**

"The Etiology of the Free-Martin," article, 1922

**Box 10**

**Folder 7**

"Supplementary Notes on Twins in Cattle," article, n.d.

**Box 10**

**Folder 8**

Bacon lectures, n.d.

**Box 10**

**Folder 9**

Lecture notes and correspondences, 1905-1919

**Box 10**

**Folder 10**

Correspondence, 1921

**Box 10**

**Folder 11**

Author's proofs, n.d.

**Box 10**

**Folder 12**

Davies article, notes, n.d.

**Box 10**

**Folder 13**

Woods Hole, notebook 1, 1901

**Box 10**

**Folder 14**

Woods Hole, notebook 2, 1901

**Box 11**

**Folder 1**

Woods Hole, notebooks 5-6, 1904-1905

**Box 11**

**Folder 2**

Notebooks 7-8, 1905-1906

**Box 11**

**Folder 3**

Woods Hole, journal, 1912

**Box 11**

**Folder 4**

Woods Hole, notebooks 1-2, 1913

**Box 11**

**Folder 5**

Woods Hole, notebook 3, 1913

**Box 12**

**Folder 1**

Woods Hole, notebooks 1-2, 1914

**Box 12**

**Folder 2**

Woods Hole, notebooks 1-2, 1915

**Box 12**

**Folder 3**

Nereis, notebook, 1909

**Box 12**

**Folder 4**

Nereis, notebook, 1910

**Box 12**

**Folder 5**

Nereis, notebook, 1911

**Box 13**

**Folder 1**

Nereis, notebook 2, 1911

**Box 13**

**Folder 2**

Nereis, notebook 1, 1912

**Box 13**

**Folder 3**

Nereis, notebook 2, 1912

**Box 13**

**Folder 4**

Nereis, notebook, 1929

**Box 13**

**Folder 5**

Hopkins Marine Station, notebooks 1-2, 1920

**Box 13**

**Folder 6**

Hopkins Marine Station notebook 3, 1920

**Box 13**

**Folder 7**

Sperm behavior, mammals, notebooks, 1912-1913

**Box 14**

**Folder 1**

M.B.L., notebook 2, 1920

**Box 14**

**Folder 2**

Notebook, 1902

**Box 14**

**Folder 3**

Notebook 3, 1902-1903

**Box 14**

**Folder 4**

Notebook, 1908-1909

**Box 14**

**Folder 5**

Notebook, 1914

**Box 14**

**Folder 6**

Lillie publications, 1917, 1923

**Box 14**

**Folder 7**

Lillie publications, 1922, 1933, 1941

**Box 14**

**Folder 8**

American Quarterly Journal, free martin article, 1845