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## Worcester Foundation for Biomedical Research (WFBR) Papers, 1944 – 1997 [formerly Worcester Foundation for Experimental Biology (WFEB)]: A Finding Aid

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# Worcester Foundation for Biomedical Research (WFBR) Papers, 1944 – 1997 [formerly Worcester Foundation for Experimental Biology (WFEB)]

## A Finding Aid

Lamar Soutter Library, Office of Medical History and Archives  
University of Massachusetts Medical School

### Descriptive Summary

**Repository:** Lamar Soutter Library, Office of Medical History and Archives  
University of Massachusetts Medical School

**Identification:** SC 9

**Creator:** Worcester Foundation for Experimental Biology / Biomedical Research

**Title:** Worcester Foundation for Biomedical Research Papers [formerly Worcester Foundation for Experimental Biology]

**Date(s):** 1944 - 1997

**Quantity:** 13 record cartons, 18 photograph boxes, 1 slides storage box.  
Approximately 21 linear feet.



**Abstract:** The Worcester Foundation for Biomedical Research (formerly Worcester Foundation for Experimental Biology) was established in 1944 in Shrewsbury, Massachusetts by Dr. Gregory Pincus and Dr. Hudson Hoagland. This collection documents the Worcester Foundation history and development until its 1997 merger with the University of Massachusetts Medical School in Worcester, Massachusetts. Also included in this collection are materials related to the Worcester Foundation for Biomedical Research faculty members.

**Access Restrictions:** Access to most material in the collection is unrestricted. Access to personal information relating to the WFEB/WFBR faculty is restricted for 10 years and thereafter is accessible by permission of the Archivist. Access to other restricted materials may be requested by completing a “Restricted Records Access Request” form.

**Preferred Citation:** The proper citation format for any item from this collection is:

The Worcester Foundation for Biomedical Research Papers, University of Massachusetts Medical School Archives, Lamar Soutter Library, University of Massachusetts Medical School, Worcester, Massachusetts.

**Processing Information:** This collection was processed by Dina Litvak in 2014. Processing of additional material was completed by Kristine Sjostedt in 2017 and 2018. News clippings were photocopied onto acid-free paper and all materials were placed in acid-free folders. Photographs were digitized and are stored internally on the Archives' network system. Some photographs are available for viewing as part of the collection's record in the public database on the Library's website.

## **Biographical/Historical:**

The Worcester Foundation for Experimental Biology (WFEB) was established in 1944 by Hudson Hoagland, Ph.D. and Gregory Pincus, Ph.D. as an independent research center primarily committed to basic biomedical studies of the relationship between hormones and diseases such as cancer, heart disease, and schizophrenia. The Worcester Foundation is best known for the development of the first birth control pill that was approved by the U.S. Food and Drug Administration (FDA). This revolutionary contraception method changed the world for women as we knew it.

In 1945, the year after the Foundation was established, Pincus and Hoagland raised funds to purchase a 12-acre estate at Maple Avenue in Shrewsbury, Massachusetts, for the Worcester Foundation campus.

In 1951, Margaret Sanger, a women's rights and birth control activist, founder of Planned Parenthood, met Pincus and procured a small grant from Planned Parenthood Federation of America for him to begin hormonal contraceptive research. The studies were dramatically expanded in 1953 due to generous support from Katharine McCormick, a millionaire, feminist, and renowned philanthropist. Katharine Dexter McCormick was one of the first women to graduate from MIT with BSc degree and the wife of the heir to the Cyrus McCormick fortune<sup>1</sup>.

Pincus, along with Min Chueh Chang, Ph.D., a senior scientist of the Worcester Foundation, demonstrated that progesterone acts as an inhibitor of ovulation in humans. Their pioneering studies revolutionized understanding of contraceptive medicine and led to the development of the combined oral contraceptive pill. In 1953, fertility specialist John Rock, M.D. joined the team and they began human trials at Rock's Reproductive Clinic in Brookline, Massachusetts. In the late 1950s the trials were expanded to Puerto Rico, Haiti, Mexico and Los Angeles due to the large number of low-income women eager to try this form of contraception. The small drug company Searle Pharmaceuticals that manufactured the first oral contraceptive named Enovid, provided the materials and donated some money for the Pill testing<sup>1</sup>. Finally, in 1960, the FDA approved Enovid, the first commercial oral contraceptive, for marketing in the United States.

By the end of the 1960s, more than 300 international researchers came to the Worcester Foundation of Experimental Biology to do research. In the 1970s, WFEB scientists undertook the first systematic study of anti-tumor effects of the anti-estrogen tamoxifen and initial studies of aromatase inhibitors, two important classes of drugs to treat breast cancer. The Foundation received a Cancer Center award from the NIH when the program first began in 1971, which was a tremendous lift to the institution. In 1976, the Mimi Aaron Greenberg Cancer Research Institute was dedicated as a part of WFEB for cancer related studies.

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<sup>1</sup> Eig, J. The birth of the Pill: how four crusaders reinvented sex and launched a revolution. W.W. Norton & Company, 2014.

In 1995, the name was changed to Worcester Foundation for Biomedical Research (WFBR) to better reflect the increased focus on medical research. By that time the institution experienced financial troubles and then merged with the University of Massachusetts Medical School (UMMS) in 1997. The facility at 222 Maple Avenue, Shrewsbury, Massachusetts is currently operated by UMMS and is the location of the Center for Mindfulness in Medicine, Health Care, and Society.

Hudson Hoagland, Ph.D., (1899-1982) was a leader in neuroendocrinology. He became chairman of the biology department at Clark University in Worcester and later arranged for Gregory Pincus to join his research team at Clark when Pincus left Harvard University. Research restrictions and poor funding by the University's administration prompted him and Pincus to found an institution exclusively concerned with scientific investigation. Hoagland served as the Worcester Foundation president from its formation until his retirement in 1970.

Gregory Goodwin Pincus, Ph.D. (1903 – 1967) was an American biologist and researcher who, in collaboration with Min Chueh Chang and John Rock, co-developed the combined oral contraceptive pill. In 1944, Pincus co-founded the Worcester Foundation for Experimental Biology in Shrewsbury, Massachusetts, and served as its research director. Concurrent with his work at the foundation, Pincus served as research professor at the Medical School of Tufts College<sup>2</sup> from 1946 to 1950 and as research professor in biology at Boston University from 1950 until his death. Pincus was widely lauded for his work, amassing various awards and recognition, including the Albert D. Lasker Award given by Planned Parenthood – World Population<sup>3</sup> and election to the National Academy of Sciences in 1965.

Min Chueh Chang, Ph.D., (1908 – 1991) was a renowned scientist in the field of reproductive biology, the co-developer of the birth-control pill and a pioneer in in vitro fertilization. He joined the staff at the Worcester Foundation for Experimental Biology in 1945. Although best known for his involvement with “the pill,” Chang also made a number of discoveries throughout his scientific career involving a range of topics within the field of reproductive biology. He published nearly 350 articles in scientific journals. Chang received numerous awards for his contributions, including the Albert Lasker Basic Medical Research Award in 1954, and was elected to the National Academy of Sciences in 1990.

John Rock, M.D., (1890-1984) was an obstetrician and gynecologist, a devout Roman Catholic and a groundbreaking infertility specialist. By the time Gregory Pincus approached Rock in the early 1950s about clinical trials of the Pill, Rock had also come to believe in the need for world population control. As part of the infertility research at his clinic, Rock was able to conduct the first human trials of the new oral contraceptive in Massachusetts. He also helped to plan the Worcester Foundation's clinical trials of the Pill. When the Pill received FDA approval in 1960, Rock's work on behalf of the Pill came to the forefront. At age 70, he launched a one-man campaign to gain Vatican approval of the Pill and until his last days he was bitterly disappointed by the Catholic Church's refusal to change its position on the birth-control pill.

Mahlon Bush Hoagland, M.D., (1921 - 2009), son of the co-founder of the Worcester Foundation, Dr. Hudson Hoagland, was an American biochemist who discovered transfer RNA (tRNA), the translator of the genetic code. In 1970, Hoagland became scientific director of the Worcester Foundation for Experimental Biology, retiring in 1985 after 15 years in the directorship. In the mid-1970s, Hoagland organized a group of distinguished scientists, including several Nobel laureates, known as the Delegation for Basic Biomedical Research, who descended on Congress to

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<sup>2</sup> The Medical School of Tufts College was formed in 1893. When the trustees changed the name of the institution from "Tufts College" to "Tufts University" in 1954, the medical school became the "Tufts University School of Medicine."

<sup>3</sup> Lasker Foundation (<http://www.laskerfoundation.org/awards/formaward.htm#worldpop>)

argue that funding basic research was the best way to ensure medical advances<sup>4</sup>. The effort led to increases in support for such fundamental research.

Thoru Pederson, Ph.D., joined the Worcester Foundation as a staff scientist in Cell Biology in 1971 and was promoted to president of the institute in 1985. He was the Foundation's president and scientific director from 1985 to 1997. Currently Pederson holds the Vitold Arnett Professorship, an endowed position, and is also Associate Vice Provost for Research at the University of Massachusetts Medical School, which acquired the Worcester foundation in his final year as its head.

The Hudson Hoagland Society was founded in 1985. Named in honor of the co-founder of the Worcester Foundation for Biomedical Research, the Hudson Hoagland Society recognizes major annual contributors who share a commitment to advancing biomedical research. Through the Annual Research Fund, the Society provides critical resources for UMMS scientists to pursue new lines of investigations and discovery.

### **Scope and Content:**

The bulk of this collection contains annual and scientific reports, correspondence, grants and study data, financial reports, newspaper clippings, scientific publications, bound volumes, numerous photographs ephemera created by or about Worcester Foundation for Experimental Biology or Worcester Foundation for Biomedical Research.

**Series and Subseries in the Collection:** The collection is arranged in twenty-two series, five of which are further arranged in several subseries. The series and subseries in the collection are as follows:

Series 1: Mimi Aaron Greenberg Cancer Research Institute (MAGCRI), 1974 - 1981

Series 2: News Releases, 1974

Series 3: Events

A. Anniversaries

B. Mahlon Hoagland Distinguished Lectures

C. Gregory Pincus Memorial Lectures

D. Eliahu Caspi Lectureship in Chemical Biology

E. Miscellaneous Events

Series 4: Publications

A. "Research in Prostaglandins" newsletter, 1971 - 1973

B. "Worcester Foundation News" press releases, 1974 - 1975

C. "The Foundation News Letter", 1958 - 1967

D. "WFEB Happenings", 1969 - 1992

E. "Research Reporter", 1976-2002

F. "Report of Research"

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<sup>4</sup> Reinhold, R. Scientists seeking research funds are lectures on political science. *The New York Times*, May 7, 1981.

- G. "Bulletin", 1953-1967
- H. WFEB Miscellaneous publications
- I. "To Your Good Health", 1970-1973
- J. "Director's Newsletter", 1974-1975
- K. "Research in Reproduction", 1976

Series 5: Annual Reports

Series 6: Scientists and Staff

- A. Hudson Hoagland
- B. Gregory Pincus
- C. WFEB scientists' profiles
- D. Min Chueh Chang
- E. Mahlon Hoagland
- F. John Rock
- G. Bernard Pincus
- H. Paul C. Zamecnik
- I. Thoru Pederson
- J. Carol A. Ziomek
- K. William Crain
- L. Edward L. Klaiber
- M. John McCracken
- N. Carlos Gual Castro
- O. Anne P. Merrill

Series 7: Scientific Reports

Series 8: Administrative, Financial and Legal Materials

Series 9: Board of Trustees

Series 10: Newspaper clippings, Articles, Book Chapters

Series 11: Awards

Series 12: Delegation for Basic Biomedical Research, 1974 - 1983

Series 13: WFEB/WFBR Campus

Series 14: Executive Committee

Series 15: Research Activities – Grants, Study Data, Reports, Correspondence

Series 16: Bibliography

Series 17: Photographs

- A. Scientists
- B. Events
- C. Buildings
- D. Miscellaneous

Series 18: Audio/Visual Materials

- A. Audio
- B. Video
- C. Floppy Disks

Series 19: Slides

Series 20: Negatives

Series 21: Scrapbooks

Series 22: Artifacts

**Series 1: Mimi Aaron Greenberg Cancer Research Institute (MAGCRI), 1974 – 1981  
(Box 1: Folders 1-8)**

1. Dedication Materials: 1974 - 1976
2. Miscellaneous Materials: 1976 - 1981
3. Annual Progress Reports: 1978 - 1986; Newsletters
4. Financial Reports: 1978 - 1986
5. Mail appeal: 1976-1981
6. Working folder: 1974-1976
7. Greenberg sponsors: 1975-1976
8. Dedication program: 1976

**Series 2: News Releases, 1974 (Box 1: Folder 9)**

9. Cumulative report on News Releases: 08/1974 - 12/1974

**Series 3: Events (Boxes 1-2: Folders 10-53)**

**Subseries A. Anniversaries (Box 1: Folders 10-17)**

10. 30th Anniversary Program Materials: Campaign Documents & Speeches: 1974
11. 30th Anniversary Program Materials: Brochures & Cards: 1974
12. 30th Anniversary Program Materials: Newsletters & News clips: 1974
13. Anniversary Campaigns Summary
14. 40th Anniversary: 1984
15. 50th Anniversary Steroid Symposium and Gregory Pincus Memorial Lecture: 11/04/1994
16. 50th Anniversary materials: 1993-1994
17. Cancer Center 20th anniversary: 09/26/1991

**Subseries B. Mahlon Hoagland Distinguished Lectures (Box 1: Folders 18-20)**

18. The 1st annual Mahlon Hoagland Distinguished Lecture: Lewis Thomas, MD: 10/03/1986
19. The 2nd annual Mahlon Hoagland Distinguished Lecture: the Nobel Laureate Dr. James D. Watson: 10/02/1987
20. The 3rd annual Mahlon Hoagland Distinguished Lecture: Dr. Philip Leder: 05/05/1989

**Subseries C. Gregory Pincus Memorial Lectures (Box 1: Folders 21-42)**

21. Recipients of Pincus Medal: 1969-1992
22. 2nd Pincus Memorial Lecture: 03/16-18/1970
23. 3rd Pincus Memorial Lecture: 05/10/1971
24. 4th Pincus Memorial Lecture: 04/19/1972
25. 5th Pincus Memorial Lecture: 11/15/1973
26. 6th Pincus Memorial Lecture: 11/22/1974
27. 7th Pincus Memorial Lecture and the New England Endocrinology Conference: 12/05/1975
28. 8th Pincus Memorial Lecture: 11/11/1976
29. 9th Pincus Memorial Symposium: 10/06/1977
30. 10th Pincus Memorial Symposium: 10/19/1978; Symposium on steroid hormone receptor systems: 10/18-20/1978
31. 11th Pincus Memorial Lecture: 10/11/1979
32. 12th Pincus Memorial Symposium and 8th New England Endocrinology Conference: 10/09/1980
33. 13th Pincus Memorial Lecture: 10/18/1982
34. 14th Pincus Memorial Lecture: 10/17/1983
35. Pincus Memorial Lecture and Symposium on the biochemistry and physiology of prostaglandins and other eicosanoids: 10/29/1984
36. Pincus Memorial Lecture and Symposium on reproductive endocrinology: 11/05/1986
37. NIH workshop on autocrine/paracrine mechanisms in reproductive endocrinology and Pincus Memorial Lecture: 10/16/1988
38. Pincus Memorial Lecture: 11/05/1992
39. Worcester Foundation 50th Anniversary Steroid Symposium and Pincus Memorial Lecture: 11/04/1994
40. Pincus Memorial Lecture: 10/23/1996
41. Pincus Memorial Lecture: June 1998
42. Pincus Memorial Lecture: October 2000

**Subseries D. Eliahu Caspi Lectureship in Chemical Biology (Box 1: Folder 42A - 43)**



42A. Eliahu Caspi Lectureship in Chemical Biology: 2001/2002

42B. Eliahu Caspi Lectureship in Chemical Biology: 2002

43. 2nd Eliahu Caspi Lecture in Chemical Biology: 05/07/2004

**Subseries E. Miscellaneous Events (Box 2: Folders 44-53)**

44. "Doctor of science degree" right: 1965

45. Dr. Mahlon Hoagland free public lecture series: 1982

46. International conference on sperm cell biology (circa 1990)

46A. Conference to Evaluate Methods for Determining Estrogens in Body Fluids & Tissues:  
August, 1957

47. Materials for exhibits and TV show: 1982 and 2001

47A. American Experience, PBS television production: correspondence, photocopies of  
materials loaned to PBS and returned to WFBR

48. Twentieth Anniversary Celebration of the Discovery of the Birth Control Pill:  
10/19/1974

49. The Pill Exhibit: 1988

50. Pill Exhibit at UMMS: March, 1982

51. 30th anniversary campaign and Cancer Research building dedication, 06/02/1974

52. Exploration '81: program, News clips, "The Commutator Award" entry: October 1981

53. Hudson Hoagland Society award: 29 Annual meeting, 05/13/2014. Awardee: Warner S. Fletcher

**Series 4: Publications (Boxes 2-3: Folders 54-99)**

**Subseries A. "Research in Prostaglandins" newsletter, 1971 – 1973 (Box 2: Folders 54-56)**

54. Publication: "Research in Prostaglandins" 06/1971 - 05/1972: vol. 1, no. 1-5

55. Publication: "Research in Prostaglandins" 07/1972 - 05/1973: vol. 2, no. 1-6

56. Publication: "Research in Prostaglandins": Supplement 1970, 1971, 1972

**Subseries B. "Worcester Foundation News" press releases, 1974 – 1975 (Box: Folder 57)**

57. Press Releases: "Worcester Foundation News": 01/1974 - 09/1975

**Subseries C. "The Foundation News Letter", 1958 - 1967 (Box 2: Folders 58-67)**

58. Newsletter: "The Foundation News Letter": 11/1958 - 12/1958

59. Newsletter: "The Foundation News Letter": 01/1959 - 11/1959

60. Newsletter: "The Foundation News Letter": 01/1960 - 01/1961

61. Newsletter: "The Foundation News Letter": 03/1961 - 12/1961

62. Newsletter: "The Foundation News Letter": 02/1962 - 12/1962

63. Newsletter: "The Foundation News Letter": 05/1963 - 11/1963

64. Newsletter: "The Foundation News Letter": 05/1964 - 08/1964

65. Newsletter: "The Foundation News Letter": 01/1965 - 10/1965

66. Newsletter: "The Foundation News Letter": 04/1966 - 11/1966

67. Newsletter: "The Foundation News Letter": 06/1967

**Subseries D. "WFEB Happenings", 1969 – 1992 (Box 2: Folders 68-73)  
(Box 3: Folders 74-88)**

68. Newsletter: "WFEB Happenings": 05/1969 - 12/1969

69. Newsletter: "WFEB Happenings": 02/1970 - 12/1970

70. Newsletter: "WFEB Happenings": 01/1971 - 12/1971

71. Newsletter: "WFEB Happenings": 01/1972 - 12/1972

72. Newsletter: "WFEB Happenings": 02/1973 - 12/1973

73. Newsletter: "WFEB Happenings": 02/1974 - 12/1974

74. Newsletter: "WFEB Happenings": 02/1975 - 10/1975

75. Newsletter: "WFEB Happenings": 02/1976 - 12/1976

76. Newsletter: "WFEB Happenings": 02/1977 - 12/1977

77. Newsletter: "WFEB Happenings": 02/1978 - 12/1978

78. Newsletter: "WFEB Happenings": 02/1979 - 12/1979

79. Newsletter: "WFEB Happenings": 02/1980 - 12/1980

80. Newsletter: "WFEB Happenings": 02/1981 - 12/1981

81. Newsletter: "WFEB Happenings": 02/1982 - 12/1982

82. Newsletter: "WFEB Happenings": 02/1983 - 12/1983

83. Newsletter: "WFEB Happenings": 02/1984 - 12/1984

84. Newsletter: "WFEB Happenings": 02/1985 - 12/1985

85. Newsletter: "WFEB Happenings": 02/1986 - 12/1986

86. Newsletter: "WFEB Happenings": 02/1987 - 12/1987

87. Newsletter: "WFEB Happenings": 01/1988 - 12/1988

88. Newsletter: "WFEB Happenings": spring 1989 - spring 1992

**Subseries E. "Research Reporter", 1976 - 2002 (Box 3: Folders 89 – 89 I)**

89. Newsletter: "Research Reporter": 1976-1980

89 A. Newsletter: "Research Reporter": 1981-1985

89 B. Newsletter: "Research Reporter": 1986-1988

89 C. Newsletter: "Research Reporter": 1989-1992

89 D. Newsletter: "Research Reporter": 1993-1994

89 E. Newsletter: "Research Reporter": 1995-1996

89 F. Newsletter: "Research Reporter": 1997-1999

89 G. Newsletter: "Research Reporter": 2000

89 H. Newsletter: "Research Reporter": 2001

89 I. Newsletter: "Research Reporter": 2002

**Subseries F. "Report of Research," 1973-1974, 1975-1976, 1977-1978 (Box 3, Folder 89J)**

89 J. "Report of Research," 1973-1974, 1975-1976, 1977-1978

**Subseries G. Bulletin, 1953-1967 (Box 3: Folders 90-90C)**

90. "Worcester Foundation Bulletin": March 1953, June 1956, September 1957, December 1957, March & September 1958, April & June 1960

90A. "Bulletin – The Worcester Foundation for Experimental Biology," September 1960 – 1962

90B. "Bulletin – The Worcester Foundation for Experimental Biology," 1963 – 1964

90C. "Bulletin of the Worcester Foundation for Experimental Biology," 1965 - 1967

**Subseries H. Miscellaneous publications (Box 3: Folders 90A-96D)**

90D. Brochure about WFEB; directions

91. Newsletter: "Science News," December 1979

92. "Evolution of the Pill," by Dorothy M. Hunt, 2002

93. WFEB: Dedication of the Shrewsbury Laboratories: 06/09/1945

94. "WFEB Science News" newsletter: vol.1, nos. 1-17: September 1974 – April 1977

95. "WFEB Science News" newsletter: vol.2, nos. 1-3: July-December 1977.

96. "WFEB Science News" newsletter: vol.3, nos. 1- : February-November,1978, February & June,1979

96A. Scientific Report: 1979-1980

96B. Worcester Foundation 30<sup>th</sup> Anniversary Medical Research Campaign

96C. Symposium on Enovid, 1963

96D. UMass Memorial Foundation: Campaign for Cardiovascular Medicine

**Subseries I. "To Your Good Health," 1970-1973 (Box 3: Folders 96E-97)**

96E. "To Your Good Health," 1970, 1971

96F. "To Your Good Health," 1972

97. "To Your Good Health," 1973

**Subseries J. "Director's Newsletter," 1974-1975 (Box 3: Folder 98)**

98. "Director's Newsletter," 1974-1975

**Subseries K. "Research in Reproduction," 1976 (Box 3: Folder 99)**

99. "Research in Reproduction," 1976

**Series 5: Annual Reports (Box 4: Folders 100-104D)**

100. Annual Reports: 1946-1947; 1959-1960; 1964-1965

101. Annual Reports: 1965-1966; 1966-1967; 1967-1968; 1969-1970

102. Annual Reports: 1970-1971; 1971-1972; 1972-1973; 1973-1974

103. Annual Reports: 1974-1975; 1976-1977; 1977-1978; 1979-1980

104. Annual Reports: 1983-1984; 1990-1991

104A. Annual Reports: 1992-1993; 1993-1994

104B. Annual Reports: 1994-1995; 1995-1996

104C. Annual Reports: 1996-1997; 1997-1998; 1998-1999

104D. Annual Reports: 2000-2001; 2002-2003

**Annual Reports: bound volumes - shelved in Archives**

Annual Reports: 1945 - 1954, bound volume

Annual Reports: 1947 - 1966, bound volume

Annual Reports: 1955 - 1960, bound volume

Annual Reports: 1961 - 1965, bound volume

Annual Reports: 1966 - 1970, bound volume

Annual Reports: 1967 - 1980, bound volume

Annual Reports: 1971 - 1976, bound volume

Annual Reports: 1977 - 1983, bound volume

Annual Reports: 1981 - 1993, bound volume

Annual Reports: 1984 - 1989, bound volume

Annual Reports: 1990 - 1996, bound volume

**Series 6: Scientists and Staff (Boxes 5 – 7; Box U: Bound Volumes, Artifacts and Folders 105-154Z4)**

**Subseries A. Hudson Hoagland:** Co-founder of WFEB and President until his retirement in 1970  
(9 bound volumes, 2 books, Folders 105-112)

**Bound Volumes: housed in book cases in Rare Book Room**

Hudson Hoagland Collected Papers, vol. I, 1927 - 1939

Hudson Hoagland Collected Papers, vol. II, 1940 - 1947

Hudson Hoagland Collected Papers, vol. III, 1948 - 1951

Hudson Hoagland Collected Papers, vol. V, 1952 - 1955

Hudson Hoagland Collected Papers, vol. VI, 1956 - 1960

Hudson Hoagland Collected Papers, vol. VII, 1961 - 1964

Hudson Hoagland Collected Papers, vol. VIII, 1965 – 1967

Hudson Hoagland Collected Papers, vol. IX, 1967 - 1971

Reprint Collection: Clark University Biological Laboratories, vol. 2, 1936 – 1939

Hoagland, Hudson, "Reflections on Science and Human Affairs," Schenkman Publishing Company, Cambridge, MA 1973 (Copy available in general collection)

Hoagland, Hudson, "The Road to Yesterday," Privately printed, Worcester, MA 1974 (Copy available in general collection)

**(Box 6: Folders 105-112)**

105. Hudson Hoagland: News clips: 1950, 1961 - 1965
106. Hudson Hoagland: News clips: 1966 - 1968
107. Hudson Hoagland: News clips: 1969 - 1970
108. Hudson Hoagland: Miscellaneous Materials
109. Hudson Hoagland: Reprints: 1965, 1969
110. Anna P. Hoagland
111. Hoagland, H. "The Pill" from "The Road to Yesterday," 1974
112. Hudson Hoagland Clark collection: July, 1985

**Subseries B. Gregory Pincus:** Co-founder of WFEB, Research Director, Co-developer of the oral contraceptive  
**(8 bound volumes, 3 books, Folders 113-123)**

**Bound Volumes: housed in book cases in Rare Book Room**

- Gregory Pincus Collected Papers, 1926 – 1934
- Gregory Pincus Collected Papers, 1935 - 1938
- Gregory Pincus Collected Papers, 1939 - 1943
- Gregory Pincus Collected Papers, 1944 - 1950
- Gregory Pincus Collected Papers, 1951 - 1954
- Gregory Pincus Collected Papers, 1955 - 1958
- Gregory Pincus Collected Papers, 1959 - 1963
- Gregory Pincus Collected Papers, 1965 - 1969
- The Hormone, volumes I, III, IV: on shelf

**(Box 6: Folders 113-123)**

113. Gregory Pincus Reprints: 1941 - 1957
114. Gregory Pincus: 1903-1967
115. Pincus, G.: Writings: Studies on the Developmental Physiology of Mammalian Eggs
116. Gregory Pincus, 1903-1967: Trip to Russia: May 1967
117. Gregory Pincus, 1903-1967: Memoirs: 1967 - 2000
118. Gregory Pincus, 1903-1967: News clips and articles about and in memory of: 1960 - 1995
119. WFEB: Gregory Pincus: Correspondence: 1961 – 1967

- 119A. Letter (copy) to Pincus from Hubert H. Humphrey, Vice-President of the United States, 1965
- 120. WFEB: Gregory Pincus: News clips: 1951 - 1967
- 121. WFEB: Gregory Pincus: Reprints: 1962 - 1965
- 122. WFEB: Gregory Pincus: In memoriam: 1962 - 1965
- 123. Gregory Pincus, 1903-1967: biosketch, CV and List of publications

**Subseries C. WFEB scientists profiles (Box 6: Folder 124)**

- 124. "Science Happenings": Scientists Profiles

**Subseries D. Min Chueh Chang: Senior scientist, Co-developer of the oral contraceptive (Box 6: Folders 125-139)**

- 125. News clips: Chang, Min Chueh: 1965 - 1985
- 126. Chang, Min Chueh 10/10/1908 - 06/05/1991: CV, biographical materials, correspondence.
- 127. Chang, Min Chueh: 10/10/1908 - 06/05/1991: News clips: 1976-1996
- 128. Chang, Min Chueh: 10/10/1908 - 06/05/1991: achievements and awards: 1962 - 1988
- 129. Chang, Min Chueh: memoir materials: 1969 - 1992
- 130. Chang, Min Chueh: bibliography
- 131. Chang, Min Chueh: memorial fund: 1997 - 1998
- 132. Chang, Min Chueh: room: 1992-1993
- 133. Chang, Min Chueh: bench dedication: 06/03/1994
- 134. Chang, Min Chueh: Writings: Recollection of my life during the past 40 years at the WFEB: 03/14/1985
- 135. Chang, Min Chueh: obituaries and memorial service: June-October 1991
- 136. Chang, Min Chueh: fund: correspondence: 1991-2000
- 137. Chang, Min Chueh: awards: 1985 - 1990
- 138. Chang, Min Chueh: reprints
- 139. Chang, Min Chueh: room: correspondence: November-December, 1992

**Subseries E. Mahlon Hoagland: Scientific Director, 1970-1985 (Box 7: Folders 140-142, 2 books)**

- 140. Mahlon B. Hoagland, 1921 - 2009
- 141. Mahlon B. Hoagland, 1921 - 2009: News clips: 1970 - 1983
- 142. Mahlon Hoagland (1921 - 2009): A Biographical memoir by Thoru Pederson
- 142A. "Simply science: A Selection of Columns Published in The Evening Gazette by Mahlon Hoagland, MD," Worcester Telegram and Gazette, Worcester, MA 1985

**Book housed in general collection:**

Hoagland, Mahlon, "Discovery. The search DNA's Secrets," Houghton Mifflin Company, Boston, MA 1981

**Subseries F. John Rock:** Gynecologist and infertility specialist; helped WFEB plan clinical trials of the first oral contraceptive (**Box 7: Folder 143**)

143. News clips: John Rock: 1978 - 1984

**Subseries G. Bernard Pincus:** Executive Assistant to the Directors, (**Box 7: Folders 144**)

144. WFEB: Bernard Pincus, deceased 09/23/1966; correspondence, copies of *Medical World News*, May 14, 1965

**Subseries H. Paul C. Zamecnik:** Molecular biologist, identified transfer RNA (tRNA) (**Box 7: Folders 145-147**)

145. Albert Lasker Award to Paul Zamecnik: 1996

146. Paul C. Zamecnik (1912 - 2009): A Biographical memoir by Thoru Pederson

147. Paul Zamecnik: correspondence, news clips, biography: 1981 - 2009

**Subseries I. Thoru Pederson:** President and Scientific Director, 1985 - 1997 (**Box 7: Folders 148-149**)

148. Thoru Pederson: correspondence: 1974 - 1985

149. Thoru Pederson: News clips

**Subseries J. Carol A. Ziomek, Scientist (Box 7: Folder 150)**

150. Carol A. Ziomek: News clips

**Subseries K. William Crain: Scientist (Box 7: Folder 151)**

151. William Crain: correspondence: 1977 - 1979

**Subseries L. Edward L. Klaiber: Scientist (Box 7: Folder 152)**

152. Edward L. Klaiber

**Subseries M. John McCracken: Senior Scientist (Box 7: Folder 153)**

153. John McCracken: papers: 1972 - 1979

**Subseries N. Carlos Gual Castro: Scientist (Box 7: Folder 154)**

154. Carlos Gual Castro: publications list, correspondence: 2008

**Subseries O. Anne P. Merrill: Lab technician and Assistant to Gregory Pincus (Box 7 and Box U: Folders 154A -154Z4, 8 Books, Artifacts)**

154A. Biographical/Personal

154B. News clips

154C. Lab instruments inventory

154D. Publications

154E. Reproductive course material

154F. Correspondence: undated

154G. Correspondence: 1958

- 154H. Correspondence: 1965
- 154I. Correspondence: 1970
- 154J. Correspondence: Library of Congress: Pincus Papers: 1971
- 154K. Correspondence: Smithsonian gift: 1992
- 154L. Correspondence: Lara Marks manuscript: 1996, 1998
- 154M. Correspondence: The Fifties: 1997
- 154N. Reprints, research literature: 1944
- 154O. Reprints, research literature: 1948-1970
- 154P. Reprints, research literature: 1952
- 154Q. Reprints, research literature: 1954-1965
- 154R. Reprints, research literature: 1956-1966
- 154S. Reprints, research literature: 1956-1966
- 154T. Reprints, research literature: 1956-1970
- 154U. Reprints, research literature: 1957
- 154V. Reprints, research literature: 1960,1967
- 154W. Reprints, research literature: 1961-1966
- 154X. Reprints, research literature: 1965-1966
- 154Y. Reprints, research literature: 1966-1969
- 154Z. Reprints, research literature: 1967
- 154Z1. Reprints, research literature: 1967
- 154Z2. Reprints, research literature: 1967, 1973
- 154Z3. Reprints, research literature: 1968-1969
- 154Z4. Reprints, research literature: 1978

### **Books**

Bound book: Compilation of reflections, photographs, and notes from colleagues and friends in honor of Anne's twenty-three years of service with WFBR, 1972

Marks, Lara V., "Sexual Chemistry, A History of the Contraceptive Pill", Yale University Press, New Haven and London, 2001 (copy available in general collection)

Speroff, Leon, "A Good Man", Arnica Publishing, Portland, 2009 (copy available in general collection)

Ville, Claude A., editor, "Control of Ovulation", Pergamon Press, New York, 1961 (later edition available in general collection)

### **Books transferred to general collection:**



Asbell, Bernard “The Pill, A Biography of the Drug That Changed the World”, Random House, New York, 1995

Vaughn, Paul, “The Pill on Trial”, Coward-McCann, Inc, New York, 1970

Hoagland, Hudson, “The Road to Yesterday”, Privately Printed, Worcester, 1974

Hoagland, Mahlon, “Discovery, the Search for DNA’s Secrets”, Houghton Mifflin Company, Boston, 1981.

**Artifacts:** Box U

Lab test data index cards

Lab tools – scissors, tweezers, magnifying glass, thread

Small leather box containing drug vials, tourniquet, wooden tongue depressors, needle, cotton

Metal statue approximately twelve inches high. Accompanying note reads , “From the office of Gregory Pincus --- After ‘The Pill’ came to be --- [illegible] ‘Woman Emancipated’ --- or so we called it!! ‘Free -- Free — At Last’ a-la M. L. King”

Dress/uniform: white, front button, dacron/polyester

Lab apron: cotton

**Series 7: Scientific Reports (Box 7: Folders 155-157 and 2 Bound Volumes)**

155. Scientific report 1994 - 1995

156. WFEB Scientific Reports: 1987 - 1988, 1990 - 1991

157. WFEB Scientific Report: 1992 – 1993

**Bound volumes: housed in book cases in Rare Book Room**

WFEB Scientific Reports 1973 - 1993

WFEB Scientific Reports 1979 – 1988

**Series 8: Administrative, Financial and Legal Materials (Box 8: Folders 157A – 161B)**

157A. Charter, 1944

157B. Report of a Pre-Campaign Feasibility Study by Walter Reeves: October, 1990

157C. Name Change: Worcester Foundation for Experimental Biology (WFEB) to Worcester Foundation for Biomedical Research (WFBR): 1995

157D. Certificate of Legal Existence: 2000

158. Miscellaneous Fundraising Materials: 1994-2001

158A. Tax Return – Form 990, 1996-1997; Financial Statement: 1996, 1997

158A.1 Financial Statements: 1976 and 1977

158B. University of Massachusetts Annual Financial Report: 06/30/1998

158C. Tax Return – Form 990: 1998-1999

- 158D. Tax Status Documentation: 1998-1999
- 158E. University of Massachusetts Tax Exempt Status: 1995
- 159. Transfer of WFBR funds, assets and property to UMMS: 09/28/1998
- 159A. WFBR 501 (c) (3) Determination Letter: 1999
- 159B. UMass Memorial Foundation (UMMF) 501 (c) (3) Determination Letter: 1999
- 159C. UMass Memorial Foundation (UMMF) Tax Return – Form 990: 2002
- 160. WFBR/UMMS merger related materials: 03/21/1997 - 01/12/2000
- 160A. WFBR/UMMS merger related materials
- 160B. WFBR/UMMS merger related materials
- 160C. WFBR/UMMS merger related materials
- 160D. WFBR/UMMS merger related materials
- 160E. Task Force: Summer 2004
- 161. *Science To Go* Program
- 161A. Cardi-Cath Campaign
- 161B. Greater Worcester Community Foundation: Annual Report, 2005

**Series 9: Board of Trustees (Box 8: Folders 162- 182, Box 9: Folders 183- 213)**

- 162. Trustees' biographies: *Access Restricted*
- 163. Trustees' biographies: *Access Restricted*
- 164. Trustees' biographies: *Access Restricted*
- 165. Trustees' biographies: *Access Restricted*
- 166. Trustees' biographies: *Access Restricted*
- 167. Trustees' biographies: *Access Restricted*
- 168. Final Report of the Board of Trustees, 05/20/1988
- 169. Trustees: members
- 170. Trustees: honorary members; officers, 1945-2005
- 171. Trustees: Board Chairmen
- 172. Trustees: birth dates
- 173. Trustees: election dates
- 174. Trustees: listings of Trustees in Annual Reports, 1945-1986
- 175. Board of Trustees: Report and recommendations of the planning and resources committee: October, 1978
- 176. Proclamations for WFBR employees: October 1998
- 177. Trustees: Insurance Liability; Orientation: 1998, 1999, 2003
- 178. Trustees meetings 12/23/1943 - 09/28/1949

179. Trustees meetings 12/23/1943 - 09/28/1949
180. Trustees meetings 01/23/1950 - 06/06/1953
181. Trustees meetings 01/23/1950 - 06/06/1953
182. Trustees meetings 06/24/1953 - 04/24/1957

**Box 9**

183. Trustees meetings 06/24/1953 - 04/24/1957
184. Trustees meetings 05/06/1957 - 01/08/1960
185. Trustees meetings 05/06/1957 - 01/08/1960
186. Trustees meetings 05/09/1960 - 06/05/1964
187. Trustees meetings 05/09/1960 - 06/05/1964
188. Trustees meetings 11/30/1964 - 05/30/1969
189. Trustees meetings 11/30/1964 - 05/30/1969
190. Trustees meetings 06/30/1970 - 12/31/1972
191. Trustees meetings 06/01/1973 - 12/18/1974
192. Trustees meetings 06/01/1973 - 12/18/1974
193. Trustees meetings 06/07/1975 - 10/31/1981
194. Trustees meetings 06/07/1975 - 10/31/1981
195. Trustees meetings 05/08/1982 - 10/12/1990
196. Trustees meetings 02/01/1991 - 10/02/1992
197. Trustees meetings 01/22/1993 - 06/27/1997; Restated Articles of Organization: 1995;  
UMMS/WFBR merger: 06/27/1997
198. Trustees meetings 01/22/1993 - 06/27/1997; By-laws: 1995; UMMS/WFBR merger: 06/27/1997
199. Trustees meetings: 1997-1998: UMMS/WFBR merger
200. By-Laws of WFBR a/w U.M. Inc.
201. Trustees meeting: 05/16/2003
202. Trustees meeting: 10/31/2003
203. Trustees meeting: 01/30/2004
204. Trustees meeting: 05/14/2004
205. Trustees meeting: October 2004
206. Trustee Nominating Committee: Spring 2004
207. Trustee Nominating Committee: 2004
208. Trustee Nominating Committee: 2003
209. Trustee Nominating Committee: 2001
210. Trustee Nominating Committee: 1998

- 211. Trustee Nominating Committee: 1999-2001
- 212. Trustee Nominating Committee: 1999-2001
- 213. Trustee Nominating Committee: 1999-2001

**Series 10: Newspaper clippings, Articles, Book Chapters (Box 10: Folders 214-232), Box 11: Folders 232A-232B)**

- 214. Miscellaneous News clips: 1965 – 2000
- 215. Miscellaneous journals: *Medical World News*, May 14, 1965; *Cornell Magazine*, October 1996
- 216. News clips: Male contraception and do-it-yourself abortion: 1976 - 1983
- 217. News clips: The Pill: 1965 - 2000
- 218. Birth control: The Pill; Male contraception: 1965 - 1988
- 219. Birth control and human reproduction: Articles: 1970, 1993.
- 220. The Story of The Pill: News clips and articles: 1937 - 1971
- 221. American Heritage articles: 1978, 1993
- 222. Oral Contraceptives: Articles and News clips: June,1963 - March,1979
- 223. Oral Contraceptives: Articles and News clips: June,1963 - March,1979
- 224. Contraception: Articles and News clips: 1963 - December,1982
- 224A. Contraception: Bibliography, abstracts, publications: 1960-1966
- 225. Reproduction: Reproduction Research Information Service, Ltd. - Bibliographies
- 225A. Reproduction: Bulletin of the Worcester Foundation for Experimental Biology; Reproduction Research Information Service, Ltd. – Bibliographies
- 226. The Pill, birth control and human reproduction: News clips and articles: 1960 – 1998
- 226A. The Pill, birth control and human reproduction: News clips and articles: 1960 – 1998
- 227. The Pill: News clips and articles: 1971 - 1989
- 228. The Pill: News clips and articles: Undated; 1995
- 229. The Pill: News clips and articles: 1986 – 1996
- 229A. The Pill: News clips and articles: 1986 – 1996
- 230. "Great Moments in Medicine": book chapters
- 230A. "Great Moments in Medicine": book chapters
- 231. Four months' cumulative report on news releases: 8/20/1974 - 12/20 1974
- 232. News Releases and Index: 1/1/1975 – 3/30/1975

**Box 11**

- 232A. News Releases and Index: 4/1/1975 – 7/31/1975

232B. News Releases and Index: 8/1/1975 – 10/31/1975

**Series 11: Awards (Box 11: Folder 233)**

233. Gregory Pincus Award

**Series 12: Delegation for Basic Biomedical Research, 1974 – 1983 (Box 11: Folders 234-235)**

234. Delegation for Basic Biomedical Research: 1974 – 1978

235. Delegation for Basic Biomedical Research: 1979 - 1983

**Series 13: WFEB/WFBR Campus (Box 11: Folders 236- 246)**

236. Foundation history buildings: 1969 - 1984

237. Brewer estate: property plans, appraisals: 1962-1974

238. Brewer estate: property plans, appraisals, deeds: 1961-1969

239. Reed building: News clips: 1965 - 1975

240. Reed building: Correspondence: 1964 - 1972

241. Reed building: Dedication and open house: 06/12/1965

242. Prospectus of WFEB – Investment portfolio for Jacob Reed

243. Brewer estate: 1961 - 1972

244. Rose-Gordon Research oratories construction: correspondence: 1974 - 1976

245. Ann Putnam Reed building: correspondence: 1971 - 1974

246. History of WFEB/WFBR campus land: by Lyn Lincourt, 10/1/2008

**Series 14: Executive Committee (Box 11: Folders 247- 255; Box 12: Folders 256-260B)**

247. Worcester Research Foundation: Founders Board meeting: 12/23/1943

248. Finance Committee meetings: 04/06/1950 – 12/17/1953

248A. Finance Committee meetings: 01/07/1954 – 09/12/1956

249. Executive Committee meetings: 10/09/1956 - 12/24/1959

250. Executive Committee meetings: 01/04/1960 – 03/28/1961

250A. Executive Committee meetings: 04/18/1961 – 03/13/1962

250B. Executive Committee meetings: 03/23/1962 – 09/26/1963

251. Executive Committee meetings: 10/18/1963 – 09/30/1965

251A. Executive Committee meetings: 10/15/1965 – 05/08/1969

252. Executive Committee meetings: 07/16/1969 - 10/14/1971

253. Executive Committee meetings: 01/04/1972 - 05/04/1973

254. Executive Committee meetings: 09/22/1973 – 06/03/1974

254A. Executive Committee meetings: 06/26/1974 - 03/20/1975

255. Executive Committee meetings: 07/17/1975 - 12/07/1979

## **Box 12**

- 256. Executive Committee meetings: 02/01/1979 – 03/12/1981
- 256A. Executive Committee meetings: 05/27/1981 -12/08/1983
- 257. Executive Committee meetings: 02/09/1984 – 06/18/1987
- 257A. Executive Committee meetings: 09/10/1987 – 11/11/1988
- 258. Executive committee meetings: 01/26/1989 - 12/06/1990
- 259. Executive committee meetings: 01/23/1991 - 12/09/1992
- 260. Executive committee meetings: 02/10/1993 - 06/13/1997
- 260A. Central Analytical Laboratory Committee meetings: 1965-1966
- 260B. Miscellaneous Reports: 1977-1980

## **Series 15: Research Activities - Grants, Study Data, Reports, Correspondence (Box 12 Folders 261-299; BOX 13, Folders 300-340; Box 14, Folder 341- 381; Box 15, Folders 382- 424)**

- 261. Roussel-Uclaf grant materials: 1966-1969
- 262. Merck & Co., Inc. grant for the study of estrogens and anti-implantation compounds in rhesus monkeys: 1966-1968
- 263. Kimberly-Clark grant for the "Studies of Physiology and Biochemistry of Menstrual Phenomena": 1966-1968
- 264. Mrs. Stanley McCormick grant for the progesterone project studies in Puerto Rico: 1954 – 1966 ***Access Restricted***
- 265. Mrs. Stanley McCormick Grants H.4, H.6, H.6A and H.7 for housing and travel expenses: 1959 - 1966
- 266. Mrs. Stanley McCormick Grant H.8 for Worcester Foundation student dormitory at Shrewsbury Motor Inn: 1961 - 1966
- 267. Syntex Corporation grant: 1964-1965
- 268. Merck Corporation Foundation grant: 1964-1965
- 269. Shionogi Research Lab grant to cover the expense of bioassays: 1964
- 270. Norwich Pharmacal Company grant: 1964 - 1967
- 271. Merck Institute for Therapeutic Research grant for a rat carcinogenicity study on MK-880: 1964 -1967
- 272. Ortho Research Foundation Grant for blood plasma factor study: 1965 – 1969
- 273. Merck, Sharp & Dohme Research Laboratories grant for MK-710 studies: 1966 - 1969
- 274. CIBA Pharmaceutical Company grant for study of cerebral reproductive factors: 1965 - 1967
- 275. Lead Industries Association grant for the study of organolead compounds: 1963 - 1964
- 276. WFEB: The Council for Tobacco Research grant for the evaluation of the tobacco consumption study: 1962 - 1966
- 277. Phytogene Products grant: 1964 – 1967
- 278. Julius Schmid, Inc., grant for the operation of the Pilot Plant: 1962 - 1964

279. Julius Schmid, Inc., grant for the construction and equipping of the Pilot Plant: 1963 - 1964
280. Eberhard-Stephens Laboratories grant for the pregnancy test efficiency checking: 1962 - 1963
281. The Lilly Research Laboratories grant for Dr. Dorfman's research on the purification of gonadotropin-inhibiting materials: 1962 - 1964
282. The Lilly Research Laboratories grant for Dr. Dorfman's studies on a method for the detection of anti-mammary tumor compounds in rats: 1961-1962
283. Germanium Research Committee grant for biological studies of germanium compounds: 1961 - 1964
284. Julius Schmid, Inc., grant to cover the chemist salary: 1961 - 1964
285. Merck & Co., Inc. grants on fertility control: 1962-1969
286. Merck, Sharp & Dohme Research Laboratories grant for a study of the steroid hormones excreted during menstrual cycle: 1966 - 1968
287. Mrs. Stanley McCormick grants: 1953 – 1957
- 287A. Mrs. Stanley McCormick grants: 1958 – 1963
288. Mrs. Stanley McCormick grants: 1964 - 1972
289. Syntex, S. A., grant for studies on the method for measurement of steroid hormone in blood: 1962
290. CIBA Pharmaceutical Company grants for study on different compounds effect on fertility and for study on Serpasil in mental patients: 1949 - 1966
291. CIBA Pharmaceutical Company grant for studying the antifertility effect of the chemical compound Ba-8177: 1957 - 1958
292. Julius Schmid, Inc., grant for studies of reproductive processes and physiological contraceptives: 1958 – 1964
293. Hoffman-Laroche grant for studies on biochemical aspects of major psychoses: 1958 - 1959
294. Hoffman-Laroche grant to Dr. Resnick: 1959 – 1960
295. Upjohn grant for the study of a series of mental disease compounds: 1958 - 1959
296. Hoffman-Laroche grant for study of anti-androgen Ro2-7239: 1959
297. Merck, Sharp & Dohme Research Laboratories grant for clinical studies with human follicle-stimulating hormone (FSH): 1959 - 1960
298. Astra Pharmaceutical Products, Inc., grant for Dr. Elmadjian's psychiatric research project: 1959 - 1961
299. Syntex grant: 1959 – 1960

**Box 13**

300. Research Center Grant in Reproduction: 12/22/1989
301. Sheep Surgical Core Facility
302. Grant Application: Coronary Heart Disease: 1967
303. Cooperative Breast Cancer Group Protocol: Primary Treatment of Breast Cancer: Drafts: 1967-1968
304. Drawings for Grant Applications (Supplemental)
305. Sloan Kettering Institute: Breast Cancer: 1965-1966

306. Sloan Kettering Institute: Breast Cancer: Physician's Package: 1965-1966
307. Sloan Kettering Institute: Breast Cancer: Physician's Package: 1965-1966
308. Sloan Kettering Institute: Breast Cancer: Physician's Package: 1965-1966
309. Sloan Kettering Institute: Breast Cancer: Physician's Package: 1965-1966
310. Sloan Kettering Institute: Breast Cancer: Patient's Package: 1965-1966
311. Sloan Kettering Institute: Breast Cancer: Patient's Package: 1965-1966
312. Charts: "Properties of Steroids II": 1960  
"Outline of Biosynthesis of Corticosteroids and Androgens": 1965
313. Filter Slide and Mount Drawings
314. Drawings
315. Ian Bush: 1965-1966
316. R.D. Bulbrook: 1969
317. Medical Research Consultants: 1966-1967
318. Ernest Wynder: 1968-1970
319. National Science Foundation: 1970
320. Worcester Polytechnic Institute: 1968
321. American Cancer Society, Inc.: Grant Application – Ian E. Bush, Principal Investigator
322. Grant Application: Steroid Hormones and Cardiovascular Function: 1966-1967
323. Study Proposal: Steroid Excretion Patterns in Patients with Cancer: 1965
324. Samples Analyzed or Info Requested: Jeremy B. Roberts: 1967-1970: *Access Restricted*
325. Merck Institute for Therapeutic Research: 1966-1968
326. Puerto Rico Samples: 1966: *Access Restricted*
327. Cushing Hospital Study: 1965-1968: *Access Restricted*
328. Cushing Hospital Study: Comparisons: 1965-1966: *Access Restricted*
329. Enovid Study: April 1966
330. George C. Escher: Memorial Sloan – Kettering Cancer Center: 1965-1967: *Access Restricted*
331. George C. Escher: Memorial Sloan - Kettering Cancer Center: 1966: *Access Restricted*
332. Pincus: Population Council Grant: Reports: 1965 – 1967
333. Haiti Samples: *Access Restricted*
334. Framingham Heart Study: 1966-1969: *Access Restricted*
335. Framingham Heart Study: 1966-1968: *Access Restricted*
336. Framingham Heart Study: 1957-1966: *Access Restricted*
337. Framingham Heart Study: *Access Restricted*



- 338. Study of Primary Breast Cancer: Study Number 8000:  
Summary Reports: 8/1/1973 – 12/31/1973  
Quarterly Reports: 7/1/1973 - 12/31/1973
- 339. Study of Primary Breast Cancer: Study Number 8000: First Anniversary Urinary Steroid Determinations
- 340. Study of Primary Breast Cancer: Study Number 8000: Second Anniversary Urinary Steroid Determinations

**Box 14**

- 341. Study of Primary Breast Cancer: Study Number 8000: Third Anniversary Urinary Steroid Determinations
- 342. Study of Primary Breast Cancer: Study Number 8000: Fourth Anniversary Urinary Steroid Determinations
- 343. Study of Primary Breast Cancer: Study Number 8000: Summary Report: December,1973
- 344. Study of Primary Breast Cancer: Study Number 8000:  
Summary Reports: 5/1/1973 – 7/31/1973  
Quarterly Reports: 4/1/1973 - 6/30/1973
- 345. Study of Primary Breast Cancer: Study Number 8000: Summary Report: July,1973
- 346. Study of Primary Breast Cancer: Study Number 8000:  
Summary Reports: 1/1/1973 – 4/30/1973  
Quarterly Reports: 1/1/1973 – 3/31/1973
- 347. Study of Primary Breast Cancer: Study Number 8000: Summary Report: April,1973
- 348. Study of Primary Breast Cancer: Study Number 8000: Summary Report: February,1973
- 349. Study of Primary Breast Cancer: Study Number 8000:  
Summary Reports: 10/5/1970 – 12/31/1970
- 350. Study of Primary Breast Cancer: Study Number 8000:  
Summary Reports: 1/1/1971-11/30/1971
- 351. Study of Primary Breast Cancer: Study Number 8000:  
Summary Reports: 1/1/1972 – 9/30/1972  
Quarterly Report: 7/1/1972 – 9/30/1972
- 352. Study of Primary Breast Cancer: Study Number 8000:  
Summary Report: October – December 1972
- 353. Study of Primary Breast Cancer: Study Number 8001  
Summary Reports: 10/1/1971 – 12/31/1971
- 354. Study of Primary Breast Cancer: Study Number 8001  
Summary Reports: 1/1/1972 – 12/31/1972  
Quarterly Report: 7/1/1972 – 9/30/1972
- 355. Study of Primary Breast Cancer: Study Number 8001  
Summary Reports: 1/1/1973 – 3/31/1973  
Quarterly Report: 1/1/1973 – 3/31/1973

356. Study of Primary Breast Cancer: Study Number 8001  
Summary Reports: 4/1/1973 – 6/30/1973  
Quarterly Report: 4/1/1973 – 6/30/1973
357. Study of Primary Breast Cancer: Study Number 8001  
Summary Reports: 7/1/1973 – 9/30/1973  
Quarterly Report: 7/1/1973 – 9/30/1973
358. Study of Primary Breast Cancer: Study Number 8001  
Summary Reports: 10/1/1973 – 12/31/1973  
Quarterly Report: 10/1/1973 – 12/31/1973
359. Study of Primary Breast Cancer: Study Numbers 8000 and 8001  
Quarterly Reports: 1/1/1971 – 12/31/1972
360. Study of Primary Breast Cancer: Study Number 8001  
Urinary Steroid Determinations Report: September, 1972
361. Study of Primary Breast Cancer: Study Number 8001  
Urinary Steroid Determinations Report: September, 1972
362. Study of Primary Breast Cancer: Study Number 8001  
Urinary Steroid Determinations Report: September, 1972
363. Study of Primary Breast Cancer: Study Number 8001  
Urinary Steroid Determinations Report: September, 1972
364. Cooperative Breast Cancer Group: Primary Therapy Study: Urinary Steroid Excretion  
Determinations: Special Morning Samples
365. Breast Cancer Study: Preliminary Statistics: 1968 – 1970
366. Results Reported: Carter and Vestergaard: 1968
367. Correspondence pertaining to samples: 1969
368. Correspondence pertaining to samples: 1967
369. Correspondence pertaining to samples: 1968-1969
370. Correspondence pertaining to samples: 1966: *Access Restricted*
371. Correspondence pertaining to samples: 1965: *Access Restricted*
372. Japanese Study: 1964 – 1967
373. Japanese Study: 1965 – 1966
374. Comparison of Breast Cancer, Other Cancer, and Control
375. Los Angeles Study: Scan Records: 1967

376. Los Angeles Study: Scan Records: October – December 1966
377. Los Angeles Study: Correspondence: May 1966 – October 1967: *Access Restricted*
378. Research Study on the Diagnostic Clinical Correlates of Urinary Hormone Metabolites in Cancer: SA-43-PH-3714: University of Southern California
379. Los Angeles Study: M I Abnormal and Well: 1966: *Access Restricted*
380. Behavioral Studies in Rats: William Mahoney: 1965-1966
381. Monkey Samples: 1967: *Access Restricted*

#### **Box 15**

382. Old Age Study: 1961-1962: *Access Restricted*
383. New Orleans Breast Cancer Study: 1957-1966
384. New York Study: Scan Records: 11/1966 – 6/1967
385. New York Study: 1966 – 1967: *Access Restricted*
386. Santamarina Study: Scan Records: 1965 – 1967: *Access Restricted*
387. Santamarina Study: Correspondence: 1966 – 1967: *Access Restricted*
388. Sloan-Kettering Institute: 1966 – 1967: *Access Restricted*
389. Sloan-Kettering Institute: Discriminant Function: *Access Restricted*
390. Worcester Heart Study: 1967: *Access Restricted*
391. Observations on Use of “Delta-1-Testololactone”: 1967
392. Comparison of Kober-Ittrich-Brown Methods
393. Peterson v. Paper
394. Calculations on Between Batch and Within Batch Samples for Progress Report: Public Health
395. Silandrone Study: Reports: 1968-1970
396. Silandrone Study: Correspondence: 1969
397. Silandrone Study: Working Papers: *Access Restricted*
398. Silandrone Study: Urinary Steroid Analysis: Final Report: April, 1970

399. Silandrone Study: Interim Report II: May,1969
400. Silandrone Study: Interim Report: March,1969: *Access Restricted*
401. Silandrone Study: Radioactive Count Results: 1969: *Access Restricted*
402. Silandrone Study: Radioactive Count Results: 1969: *Access Restricted*
403. Silandrone Study: Radioactive Count Results: 1969: *Access Restricted*
404. Silandrone Study: Radioactive Count Results: 1969: *Access Restricted*
405. Silandrone Study: 1969: *Access Restricted*
406. NASA: Grant: NGR 22-141-002: Official correspondence, including financial: 1968-1970
407. NASA: Contract Proposals:1967
408. NASA: Grant: NGR 22-141-002: Reports: 1968 – 1970
409. NASA: Grant: NGR 22-141-002: Budgets: 1969 – 1972
410. NASA: Grant: NGR 22-141-002: Reports: 1969-1970
411. NASA: Correspondence: 1967
412. NASA: Correspondence: 1967 – 1970
413. NASA: Miscellaneous
414. National Institute of General Medical Sciences Grant: Contract Proposals: 1969: *Access Restricted*
415. National Institute of General Medical Sciences Grant: Budgets: 1966 – 1972
416. National Institute of General Medical Sciences Grant: Reports: 1967
417. National Institute of General Medical Sciences Grant: Oak Ridge Symposium: 1969
418. National Institute of General Medical Sciences Grant: Correspondence & Financial: 1967-1969
419. National Institute of General Medical Sciences Grant: Correspondence: 1967-1969
420. National Institute of General Medical Sciences Grant: Correspondence: 1967
421. National Institute of General Medical Sciences Grant: Miscellaneous: 1970
422. Multiple Wavelength Spectrophotometry as Applied to Chromatogram Scanning: 1968-1969
423. Unknown Study: Sample Results: 1973

424. Unknown Study: Rat test results: Pincus: undated (2 compact discs with images of documents housed in Audio/Visual series)

**Series 16: Bibliography (Box 15: Folders 425 - 426)**

425. Library of Congress G. Pincus Finding aid  
426. Bibliography of Fertility Control, 1950 - 1965; National Committee on Maternal Health, Inc., New York, NY

**Series 17: Photographs: (Box 15: Folders 427 - 429)**

**(Boxes A-S: Folders 00001 - 00146)**

Note: some folders also contain negatives of the photographs

427. Photocopied photographs: WFEB buildings before 1960; M.C. Chang  
428. Photocopied photographs: WFEB buildings and 1945: 1940s-1950s  
429. Photographs of G. Pincus, H. Hoagland and M.C. Chang for the book "Sexual Chemistry: A History of The Contraceptive Pill" by Lara Marks: 2001

**Subseries A. Scientists (Boxes A – H: Folders 00001 – 00063)**

**Box A: Folders 00001 - 00010**

- 00001 Mahlon Hoagland and Federico Welsh, 10/23/1970  
00002 Mahlon Hoagland in his laboratory, 3/1972; 1 negative – possibly M.C. Chang  
00003 Mahlon Hoagland; unknown.  
00004 John Aberhart, PhD; 1976 - 1978  
00005-A, B, C, D: M.C. Chang: 1950s - 1980s  
00006 William Crain: 1978 -1980  
00007 Lawrence J. Dangott  
00008 Justin Fallon: 1987 - 1995  
00009 Harvey Florman: 1995  
00010 Bruce Goldman

**Box B: Folders 00011 - 00014**

- 00011 John Goodchild  
00012 Hagan Bayley  
00013 John Hildebrandt  
00014-A, B, C, D: Mahlon Hoagland

**Box C: Folders 00015 - 00024**

- 00015 Hudson Hoagland  
00016 Michele Jacob

00017 Rob Jackson  
00018 Daniel Kilpatrick  
00019 Edward Klaiber  
00020 David Kupfer: 1976 - 1994  
00021 Stephen Lambert: 1996  
00022 Jose Lemos: 19?? - 1995  
00023 Elizabeth Luna: 12/02/1988 - 02/21/1989  
00024-A, B, C: John McCracken: 1968 – 1979

**Box D: Folders 00025 - 00035**

00025 Foteos Macrides: 1976 - 1983  
00026 Clare O'Conner: 1985 - 1995  
00027 Robert J. O'Connell: 1976 - 1987  
00028-A, B: Thoru Pederson: 1978 - 1997  
00029 Peter Pryciak: 1996  
00030 Joel D. Richter: 1987  
00031 Alonzo Ross  
00032 Greenfield Sluder: 1982 - 1983  
00033 Steven N. Treisman  
00034 Richard Vallee: 1980 - 1983  
00035 Brad Bull and Dick Eastman

**Box E: Folders 00035A – 00045**

00035A Eliahu Caspi  
00036 Donald Fredrickson  
00037 Sam Wadsworth: 1978 - 19?  
00038 Yu-Li Wang  
00039 Federico Welsch: 1978 - 1982  
00040 George B. Witman  
00041 David E. Wolf: 1980s - 1990s  
00042 Paul Zamecnik  
00043 Carol A. Ziomek  
00044 Zuoshang Xu: 1996  
00045 Distinguished guest lecturers

**Box F: Folders 00046 – 0005B**

- 00046 Hudson Hoagland and Gregory Pincus
- 00047 Gregory Pincus
- 00048 Bernard Pincus
- 00049 WFBR: Photographs of G. Pincus, H. Hoagland and M.C. Chang for the book "Sexual Chemistry: A History of The Contraceptive Pill" by Lara Marks: 2001
- 00050 Pincus Memoir: Gregory Pincus and Hudson Hoagland
- 00051 WFBR: Materials for exhibits and TV show: 1945 and 2001
- 00052 Gregory Pincus: 1967
- 00053 Gregory Pincus portrait
- 00054 Salvador Moncada and Robert F. Furchgott: lecturers at Pincus Memorial Lecture: 10/23/1996: portraits
- 00055 10th Pincus Memorial Symposium: 10/19/1978: Elwood V. Jensen and Etienne-Emile Baulieu: portraits
- 00056 James D. Watson
- 00056A Anne Merrill
- 00056B Anne Merrill

**Box G: Folders 00057 A, B, C, D, E**

- 00057A Hudson Hoagland: portraits: 1940s - 1980s
- 00057B Hudson Hoagland: portraits: 1940s - 1980s
- 00057C Hudson Hoagland: portraits: 1940s - 1980s
- 00057D Hudson Hoagland: portraits: 1940s - 1980s
- 00057E Hudson Hoagland: portraits: 1940s - 1980s

**Box H: Folders 58 - 63**

- 00058 James Watson
- 00059 Pincus medal
- 00060 Gregory Pincus and Hudson Hoagland
- 00061 Gregory Pincus, Hudson Hoagland, Group
- 00062 Gregory Pincus, Hudson Hoagland, Others; Experiments
- 00063 Scientists, Experiments

**Subseries B. Events (Boxes I – L: Folders 00064-00098)**

**Box I: Folders 64 - 71**

- 00064 Events: unidentified
- 00065 Ladies Auxiliary of WFBR: 1950s; November 1, 1966
- 00066 Horse show: 1989 - 1997
- 00067 Ann Putnam Reed research laboratory: dedication and open house: 1965

00068 Hoagland-Pincus Center Open House: June 1968  
00069 Open House: September 1977  
00070A Exploration '81: October 1981  
00070B Exploration '81: October 1981  
00071 "All About Cells" program for gifted 6th graders from Shrewsbury: February-March 1982  
**Box J: Folders 72 - 88**  
00072 Pincus Medal: Presented to Carlos Gual Castro, M.D.  
00073 Trustees meeting: June 1965  
00074 Trustees meeting: January 15, 1966  
00075 Trustees meetings: January and November 1968  
00076 Trustees meeting: June 1970  
00077 WFBR 2004: New Trustees photographs  
00078 Pincus Medal: August 15, 1969  
00079 Washington DC Delegation: January 1978  
00080 Great moments in medicine  
00081 50th Anniversary events: David Halberstam talk: 10/20/1994  
00082 50th Anniversary events: Gertrude Elion and Bruce Alberts talk: 05/12/1994  
00083 50th Anniversary events: Betsy Dresser talk: 09/29/1994  
00084 50th Anniversary events: Pincus Lectures / Steroids Symposium: Etienne Emile Baulieu: 11/04/1994  
00085 50th Anniversary events: M.C. Chang Memorial Bench Dedication: 06/03/1994  
00086 Pincus Memorial Lectures  
00087 Pincus Memorial Lectures: Dr. and Mrs. Thaddens Mann: 02/17/1969 - 02/19/1969  
00088 Pincus Memorial Lectures: Abraham White: March 1970  
**Box K: Folders 89- 96A**  
00089 Hudson Hoagland Award: 1st (Thoru Pederson) and 2<sup>nd</sup> (Congressman Joe Early): 1982 - 1984  
00090 Trustees: November 1968; 1969-negatives  
00091 Cancer research building dedication: 06/02/1974  
00092 WFEB 50th Anniversary Steroid Symposium Alumni, 11/04/1994  
00093A Worcester Foundation Annual Horse Show: 1976-1977  
00093B Worcester Foundation Annual Horse Show: 1976-1977  
00094 Mimi Aaron Greenberg Cancer Research Institute (MAGCRI) dedication program: 1974  
00095 Worcester Foundation 50th Anniversary Steroid Symposium and Pincus Memorial Lecture: 11/04/1994  
00096 Pincus Memorial Lecture: 10/23/1996  
00096A Eliahu Caspi Lectureship: 2001/2002



**Box L: Folders 97 – 98**

00097A Board of Trustees

00097B Board of Trustees

00097C Board of Trustees

00097D Board of Trustees

00098 Elliot Richardson, U. S. Secretary of Health, Education, and Welfare

**Subseries C. Buildings (Boxes M – Q: Folders 00099-00137)**

**Box M: 99 - 110**

00099 Barn: July 1971

00100 Cancer building: progress photographs: 07/01/1973 - 11/21/1973

00101 Stoddard building entrance, negative

00102 Hoagland-Pincus Center

00103 Endocrine clinic

00104 Gut lab, May 1970.

00105 Hoagland-Pincus Center: conference rooms: 1967

00106 Ann Putnam Reed research laboratory: dedication and open house: 1965

00107 Reed building

00108 Rose and Gordon Research laboratory dedication: 06/02/1974.

00109 Rose and Gordon Research laboratory: 1975

00110 Chapin Higgins Memorial building

**Box N: Folders 111 - 117**

00111 Stoddard mansion: 1946 - 1967.

00112 Stoddard - cancer building

00113A Outside views of WFEB campus: 1939 – 1982

00113B Outside views of WFEB campus: 1939 – 1982

00113C Outside views of WFEB campus: 1939 – 1982

00114 WFEB signs

00115 Wings A & B

00116 Worcester Foundation buildings

00117 Wall Mural - Lobby (Hoagland-Pincus Center)

**Box O: Folders 118 - 121**

00118 Hoagland-Pincus plaque

00119 Hoagland-Pincus Center Foyer  
00120A Hoagland-Pincus Center  
00120B Hoagland-Pincus Center  
00120C Hoagland-Pincus Center  
00121 WFEB buildings: Miscellaneous negatives

**Box P: Folders 122 - 127**

00122 WFEB buildings: Miscellaneous.  
00123 WFEB aerial views  
00124 WFEB Aldus Chapin Higgins Memorial Building (administrative buildings):  
1950s - 1960s  
00125 Building plaque: American Cancer Society  
00126 Endocrine clinic  
00127 Buildings exteriors: 1960s - 1981.

**Box Q: 128 - 137**

00128 Hoagland-Pincus Center Library  
00129 Hoagland-Pincus Center Cafeteria: 1967.  
00130 Harvey house  
00131 Hoagland-Pincus Center: building progress: 1965 - 1967.  
00132 WFEB various old buildings: 1946 - 1960s.  
00133 WFEB Behavioral Science building 1960s - 1970s.  
00134 WFEB Buildings: Plumbing house and the floor plan of unknown building.  
00135 Historical photographs of WFEB: 06/01/1967.  
00136 Aerial photographs of WFEB  
00137 Shaarei Torah West renovation - floor plan.  
00137A. Clinical test sites: Haiti; Humacao, Puerto Rico

**Subseries D. Miscellaneous (Boxes R –S: Folders 138 – 146)**

**Box R: Folders 138 - 140**

00138 Unknown/unidentified events, people, buildings.  
00139 Photograph contact sheets: events, portraits: 1994 - 1995.  
00140 Photograph contact sheets: events, portraits: 1993 - 1996.

**Box S: Folders 141 - 146**

00141 Photograph contact sheets: events, portraits: 1996 - 2000.

- 00142 Photograph contact sheets: events, portraits: 1996.  
00143 Margaret Sanger: circa 1930-1949.  
00144 Mrs. Albert Lasker  
00145 Magnified cells: Retrovirus; Microtubules  
00146 Articles about birth control pill, Hudson Hoagland-negatives  
00147 Katharine Dexter McCormick, c. 1903

### **Photographs - Oversize**

Aerial views; Hudson Hoagland; Group of early scientists; Unidentified Staff/Students; Rabbit  
Board of Trustees, 1999  
Sign, Worcester Foundation 1944, 12" by 12"

### **Photographs - Framed**

Board of Trustees University of Massachusetts Medical School Research Advisory Council, 2005-2006  
Board of Trustees/Research Advisory Council, Winter 2000

## **Series 18: Audio/ Visual Materials (Box V)**

### **Subseries A: Audio**

- Jane Brody: 4/9/87
- Michael Novacek: 5/8/97
- O'Connell
- Caspi Lecture: 2002 (CD)

### **Subseries B: Video/DVD**

- "The birth control pill": Nova Series: 03/19/1977, WQED-TV, 2 copies
- "The Pill for the People": NOVA: 03/09/1977, WGBH, Boston
- "Worcester Foundation for Experimental Biology": Warner & Forman
- "Worcester Foundation for Experimental Biology": Warner & Forman
- "Worcester Foundation for Experimental Biology - To Continue The Search": ¾" Master Tape
- "Worcester Foundation for Experimental Biology - To Continue The Search II": 2 copies
- "Worcester Foundation for Experimental Biology - To Continue The Search": copy of slide tape
- "The Story of Worcester Foundation for Experimental Biology": 10/95 C & 10 95 M: 3 copies of each
- "1989 Women's Health Conference: 'Turning Obstacles Into Opportunities,'" Gail Sheehy speaking": 4-27-89

- “First Annual Mahlon Hoagland Distinguished Lecture – given by Lewis Thomas, M.D, at the Worcester Foundation”: 10-3-86: 2 copies
- “Hybridon Corporate Video,” Paralax/Hill & Knowlton: 6/21/93
- “Worcester Foundation,” Envision: 2 copies
- “Enovid – A Documentary of 10 Year’s Research”: 7/96 M
- “Fire-Fighting Demonstration”: 7/96 M and 7/96 C
- “This is Worcester,” A Production of Norton Company
- “Dr. Gregory Pincus” – Royal Society of London, England: May 4, 1966 - 6 copies
- “The Pill” – 9/95 C
- Milestones in science and technology – Part 52 – The “Pill” – Adolph Butenandt and the sexual hormones: 1996 – German language
- “A New Opportunity for Women: Knowing Your Risk for Breast Cancer” and “STAR: The Study of Tamoxifen and Raloxifene”
- “The Pill”, Granada TV Network, London England, 1961: Includes interview with Gregory Pincus – 2 copies
- Pincus Medal Award Ceremony: Recipient: Alejandro Zaffaroni. Hosted by Jane Shaw at the Alza Corporation. Remarks by Thoru Pederson. Mountain View, CA, 2005
- Pincus Medal Award Ceremony: Recipient: Seymour Lieberman. Manhattan NY, April 13, 2009

**Subseries C: Floppy Disk/Compact Disc**

- “The History of the Birth Control Pill: People, Policies, Principles and Progesterone,” by Lawrence C. Zoller: 3 ½” floppy disk
- “Pill History PPT”: 3 ½” floppy disk
- “Board Member Election Dates”: 5 ¼” disk
- Rat test results: Pincus: compact disc

**Series 19: Slides**

**Binder 1: Slides of scientists and campus buildings**

<u>Page</u>	<u>Row</u>	<u>Column</u>	<u>Slide Content Description</u>
1	1	1	Hudson Hoagland
1	1	2	Hudson Hoagland
1	1	3	Hudson Hoagland
1	1	4	Unidentified male
1	2	1	Unidentified male, 2 females
1	2	2	Unidentified male

1	2	3	Unidentified male
1	2	4	Unidentified male
1	3	1	Unidentified male
1	3	2	Plaque: <i>The W.M. Keck Foundation Protein Chemistry Facility</i>
1	3	3	Equipment in lab
1	3	4	Unidentified building
1	4	1	Unidentified building
1	4	2	Unidentified building
1	4	3	Unidentified building
1	4	4	Unidentified building
1	5	1	Unidentified building

<u>Page</u>	<u>Row</u>	<u>Column</u>	<u>Slide Description</u>
1	5	2	Unidentified building
1	5	3	Sign: <i>Worcester Foundation for Biomedical Research</i>
1	5	4	Sign: <i>Worcester Foundation for Biomedical Research</i>
2	1	1	Sign: <i>Worcester Foundation for Biomedical Research</i>
2	1	2	Sign: <i>Worcester Foundation for Biomedical Research</i>
2	1	3	Sign: <i>Worcester Foundation for Biomedical Research</i>
2	1	4	Sign: <i>Worcester Foundation for Biomedical Research</i>
2	2	1	Sign: <i>Worcester Foundation for Biomedical Research</i>
2	2	2	Sign: <i>Worcester Foundation for Biomedical Research</i>
2	2	3	Sign: <i>Worcester Foundation for Biomedical Research</i>
2	2	4	Sign: <i>Worcester Foundation for Biomedical Research</i>
2	3	1	Sign: <i>Worcester Foundation for Biomedical Research</i>
2	3	2	Sign: <i>Worcester Foundation for Biomedical Research</i>
2	3	3	Sign: <i>Worcester Foundation for Biomedical Research</i>
2	3	4	Sign: <i>Worcester Foundation for Experimental Biology</i>
2	4	1	Sign: <i>Worcester Foundation for Experimental Biology</i>
2	4	2	Sign: <i>Worcester Foundation for Experimental Biology</i>
2	4	3	Sign: <i>Worcester Foundation for Experimental Biology</i>
2	4	4	Hoagland-Pincus Center
2	5	1	Hoagland-Pincus Center

2	5	2	Hoagland-Pincus Center
2	5	3	Hoagland-Pincus Center
2	5	4	Hoagland-Pincus Center
3	1	1	Hoagland-Pincus Center
3	1	2	Hoagland-Pincus Center
3	1	3	Hoagland-Pincus Center
3	1	4	Hoagland-Pincus Center
3	2	1	Hoagland-Pincus Center
3	2	2	Hoagland-Pincus Center
3	2	3	Hoagland-Pincus Center
3	2	4	Hoagland-Pincus Center plaque

<u>Page</u>	<u>Row</u>	<u>Column</u>	<u>Slide Description</u>
3	3	1	Hoagland-Pincus Center plaque
3	3	2	Reed Building
3	3	3	Reed Building
3	3	4	Reed Building
3	4	1	Library
3	4	2	Library
3	4	3	Library
3	4	4	Library
3	5	1	Library
3	5	2	Library
3	5	3	Unidentified building
3	5	4	Hoagland-Pincus Center
4	1	1	Hoagland-Pincus Center, interior
4	1	2	Hoagland-Pincus Center, at night
4	1	3	Hoagland-Pincus Center, at night
4	1	4	Hoagland-Pincus Center, at night
4	2	1	Hoagland-Pincus Center, at night
4	2	2	Hoagland-Pincus Center, at night
4	2	3	Hoagland-Pincus Center
4	2	4	Hoagland-Pincus Center

4	3	1	Hoagland-Pincus Center
4	3	2	Hoagland-Pincus Center
4	3	3	Hoagland-Pincus Center
4	3	4	Hoagland-Pincus Center
4	4	1	Hoagland-Pincus Center
4	4	2	Hoagland-Pincus Center
4	4	3	Rose and Gordon Research Laboratory
4	5	1	M.C. Chang
4	5	2	M.C. Chang
4	5	3	M.C. Chang

**Slide Binder:** Study data

**Binder 2**

1. Animal Data Long Term: slides 1 – 5
2. Blood: slides 6 – 12
3. Blood Pressures: slides 13 – 14
4. Blood & Thrombophlebitis: slides 15 – 31
5. Breasts- Uterus-Menstrual Cycle: slides 32 – 46
6. Cancer (page 1): slides 47 – 66
7. Cancer (page 2):slide 67
8. Chlosma, Hirsutism, Varices: slides 68 – 70
9. Comparative Study: slides 71 – 79
10. Contraceptive's Metabolism Effects on Adrenal Function Excretion in Milk (page 1): slides 80 – 99
11. Contraceptive's Metabolism Effects on Adrenal Function Excretion in Milk (page 2): slides 100 – 106
12. CT of Ovaries Smears, Siallic Acid Follicles: slides 107 – 115
13. Enovid and "Secr" Rates etc. ACTH: slides 116 – 131
14. Enovid Metabolism: slides 132 – 136
15. Ethynodiol: slides 137 – 142
16. Ethynodiol & Enovid Older Fertility Data: slides 143 – 151
17. Fertility: slides 152 – 157

**Binder 3**

1. Field Trial: slides 158 – 175
2. Lab Test, Liver etc.: slides 176 – 179

3. Libido and Various Physical Conditions: slides 180 – 192
4. Long Term (page 1): slides 193 – 212
5. Long Term (page 2): slides 213 – 218
6. Long Term Enovid, Ethynodiol Data Thissain Rats: slides 219 – 227
7. Menstrual Phenomena Contraceptive Effects: slides 228 – 238
8. Non Sexual Effects: slides 239 – 243
9. Older Enovid Data (page 1): slides 244 – 263
10. Older Enovid Data (page 2): slides 264 – 271
11. Oral Contraceptives Effect on Ovary Oocyte Counts: slides 272 – 275
12. Oral Contraceptives Fertilities and Pregnancy (Withdrawn): slides 276 – 279
13. Oral Contraceptives Metabolic & Other Effects (page 1): slides 280 – 299
14. Oral Contraceptives Metabolic & Other Effects (page 2): slides 300 – 302
15. Oral Contraceptives Summary of Long Term Effects: slides 303 – 316
16. Ovulation Inhibition and Non-Steroidal Compounds: slides 317 – 319
17. Pap smears: slides 320 – 327
18. Thyroid and Contraceptives: slides 328 – 332
19. Reactions: slides 333 - 337

#### **Box A**

1. Eye Fundus-color slides #1: 04-01-1964: *Access Restricted*
2. Eye Fundus-color slides #2: 04-17-1964: *Access Restricted*
- 3A. Eye Fundus-color slides #3A: *Access Restricted*
- 3B. Eye Fundus-color slides #3B: *Access Restricted*
4. Eye Fundus-color slides #4: 05-19-1964: *Access Restricted*
5. Eye Fundus-color slides #5: 05-26-1964: *Access Restricted*
6. Eye Fundus-color slides #6: 06-09-1964: *Access Restricted*
7. Eye Fundus-color slides #7: 06-16-1964: *Access Restricted*
8. Eye Fundus-color slides #8: 06-29-1964: *Access Restricted*
9. Eye Fundus-color slides #9: 07-22-1964: *Access Restricted*
10. Eye Fundus-color slides #10: 09-21-1964: *Access Restricted*
11. Eye Fundus-color slides #11: 09-28-1964 & 10-05-1964: *Access Restricted*

#### **Box B**

1. Eye Fundus-color slides: I: February 1963: *Access Restricted*



2. Eye Fundus-color slides: II: April 1963: *Access Restricted*
3. Eye Fundus-color slides: III: May 1963: *Access Restricted*
4. Eye Fundus-color slides: IV: May 1963: *Access Restricted*
5. Transparency slides (3): undated
6. Great Moments in Medicine: 1984
7. Great Moments in Medicine: 1985
8. Great Moments in Medicine: 1985

**Box C (Glass Slides), 1-66**

1. Aerial of campus
2. Aerial of campus
3. Aerial of campus
4. Barn at Clark University (where WFEB was originally established)
5. Aldus Chapin Higgins Memorial Building
6. Stoddard Building
7. Stoddard Building
8. Unidentified building
9. Group of early scientists
10. Unidentified men
11. Analysis of Endometria in Longer Term Treated Patients
12. Analysis of Endometria in Longer Term Treated Patients
13. Normal/Schizophrenic
14. Normal/Schizophrenic
15. The Mean Excretion of Neutral Non-Ketonic Steroids
16. The Mean Total Response Index (TRI) Values
17. Mean Changes in Free & Bound 17-OH-Corticosteroids Over Control
18. Untitled
19. Excretion of NA & A After ACTH
20. Conception in Subjects
21. Relation of PS/17KS Excretion
22. Unidentified Cells: *Access Restricted*
23. Unidentified Cells: *Access Restricted*
24. Unidentified Cells: *Access Restricted*:

25. Unidentified Cells: *Access Restricted*
26. Variations in Menstrual Cycle Length
27. Unidentified Cells: *Access Restricted*
28. Unidentified
29. Classification of Reactions
30. Non Saponifiable Lipids
31. Companions of Cholesterol
32. Guinea Pig & Hamster Cholesterol
33. Total Cholesterol Specific Activity
34. Oxydation of Cholesterol
35. Purification of Commercial Cholesterol
36. Untitled
37. Biosynthesis of Cholesterol C<sup>14</sup> in Young and Old Rats
38. Hamster: Transplanted Tumor
39. Intravenous Injection of Cholesterol C<sup>14</sup> in Rats
40. Biogenesis of Cholesterol in Rats Fed Nicotinic Acid
41. Cholesterol in Cold Stressed Rats
42. Biogenesis of Cholesterol in Pregnant Rats and Fetus
43. Squalene
44. Untitled
45. Wavelength
46. Mixture of Squalene
47. Non Saponifiable of Pig Liver Perfusion
48. Fraction from 2<sup>nd</sup> Paper Chromatogram
49. Liver Cholesterol
50. Incubation of Yeast-Homogenates with Squalene
51. Perfusion of Pig Liver – Time Experiment
52. Counts for Tissues of Rats from Experiment 1
53. Alkaline Hydrolysis of Liver Perfusions
54. Digitonin Precipitable HCC
55. Distribution of Cholesterol C<sup>14</sup> and Digitonin-Precipitable HCC
56. Rat Hepatoma
57. Alkaline Hydrolysis of Yeast

58. Biosynthesis of Cholesterol in Rats
59. Cholesterol
60. Distribution of C<sup>14</sup> in Cholesterol of Different Origin
61. C<sup>14</sup> Cholesterol from Organs of Swine
62. Urethane Effect on Biosynthesis of Cholesterol C<sup>14</sup> in Swiss Mice
63. Cholesterol Distribution in Different Tissues & Varying Times
64. Biosynthesis of Cholesterol in Pig's Blood
65. Free & Esterified Cholesterol C<sup>14</sup> in Rats
66. Untitled

**Box D (Glass Slides), 67- 128**

67. Untitled
68. Separation of Lipoids
69. Experiments with Zymosterol C<sup>14</sup>
70. Untitled
71. C<sub>27</sub> Steroids Isolated from Organ Extracts
72. Untitled
73. Incubation of Citrated Pig Blood
74. Distribution of Counts in Pig Liver Perfusion
75. Effects of SC-4642 on Urinary FSH
76. Untitled
77. Untitled
78. Ovulation Indices & Steroid Excretion
79. Incidence of Breakthrough in First & Later Cycles of Administration
80. Analysis of Reactions
81. Incidence of Side Effects in First & Later Cycles of Administration
82. Miscellaneous Cases
83. Effects of Estrogen Supplementation of Pure Ethinylestradiol (II)
84. Percentage Changes Over the Control Values in 17-Ketosteroid & Pregnanediol Outputs
85. Incidence of Reactions
86. Rx: 19 Nor Steroids
87. Rx: 19 Nor Steroids
88. Rx: 19 Nor Steroids
89. Steroid Excretion of Male Subjects Receiving SC-4642

90. Adrenocortical Hormones Measurement in Men
91. Untitled
92. Untitled
93. Steroid Transformations Achieved in Homogenates
94. Steroids Isolated from Adrenal Tissue Extracts
95. Effect of A.T.P on Cholesterol Metabolism by Mitochondria
96. Products of C<sup>14</sup> Cholesterol Metabolism
97. Effect of Ascorbic Acid on Cholesterol Metabolism
98. Adrenal Cancer
99. Cushing's Syndrome
100. Adrenogenital Syndrome
101. Effect of Administration of ACTH on Concentration of Corticosterone and Hydrocortisone
102. Diurnal Changes in Steroid Excretion in Female Subjects
103. Diurnal Changes in Steroid Excretion in Male Subjects
104. Steroid Secretion by Control and Schizophrenic Subjects
105. Mass Spectrometer Analyses of D<sub>2</sub>O Experiment
106. Mass Spectrometer Analyses of H<sub>2</sub>O<sup>18</sup> Experiment
107. Mass Spectrometer Analyses of the O<sub>2</sub><sup>18</sup> Experiment
108. Untitled
109. Calculated Daily Production of Steroid Hormones
110. Effects of Combinations of 17a-Methyltestosterone, 17a-Ethyl-19 Nortestosterone, and Hydrocortisone on Elderly Males
111. Effects of Medication with 17a-Methyltestosterone and 17a-Ethyl-19 Nortestosterone on Elderly Males
112. Effects of Medication with Combinations of 17a-Ethyl-Nortestosterone with Methyltestosterone and Hydrocortisone on Elderly Males
113. Effects of Medication with 17a-Methyltestosterone and 17a-Ethyl-19-Nortestosterone on Elderly Males
114. Weightlifting and 17-Ketosteroids
115. Untitled
116. Calculated Daily Production of Steroid Hormones
117. Actual and Calculated Median Ages of Various Types of Patients
118. Untitled
119. Untitled
120. Untitled
121. Untitled

- 122. Untitled
- 123. Androgen
- 124. Untitled
- 125. Total Estrogen
- 126. Neutral Reducing Lipid
- 127. Untitled
- 128. Untitled

**Box E (Glass Slides), 129-193**

- 129. Excretion of NA & A After ACTH
- 130. Excretion of NA & A After ACTH
- 131. Actively Skating Players – 100 mg Creatinine
- 132. Actively Skating Players – 100 mg Creatinine
- 133. Actively Skating Players – 100 mg Creatinine
- 134. Goalie – 100 mg Creatinine
- 135. Correlation Coefficients
- 136. Untitled
- 137. Aldosterone Excretion
- 138. Image of Cells: *Access Restricted*
- 139. Menstrual Cycle Lengths
- 140. Variations in Duration of Menstrual Flow
- 141. Progesterone Inhibits Testosterone
- 142. Libido
- 143. Weight
- 144. Dysmenorrhea
- 145. Puerto Rico
- 146. Puerto Rico
- 147. Rates of Withdrawal
- 148. San Juan Follow-ups Using Contraceptives
- 149. San Juan Cases
- 150. San Juan Reactions
- 151. Tablet Taking
- 152. Case Tallies
- 153. Incidences of Pregnancies – Puerto Rico Subjects
- 154. Reasons for Discontinuing Enovid Medication

155. Life Expectancy at Birth
156. World Population Growth, 1000-1955
157. Four Stages of Transition
158. Analyses of Pregnancies in Puerto Rico Series
159. Untitled
160. San Juan-Cycle Lengths
161. San Juan-2 ½ mg. Dose
162. San Juan-5 mg. Dose
163. San Juan-2 ½ mg. Dose Cycle Lengths
164. Humacao-R Cycle Lengths
165. Humacao-P Cycle Lengths
166. Haiti Cycle Lengths
167. San Juan – 5mg. Dose Cycle Lengths
168. 5mg. Dose
169. Cortisol (F) Inhibits Testosterone (T) Action on L.A. Muscle
170. Untitled
171. Variations in Cycle Length
172. Untitled
173. Variations in Cycle Length
174. Implantation in Ovariectomized Rabbits Receiving Progestins
175. Untitled
176. Effects of Various Compounds on Mating & Pregnancy in Rats
177. Effects of Various Compounds on Mating & Pregnancy in Rats
178. Untitled
179. Summary of Puerto Rico Cases
180. Analysis of Puerto Rico Data on Medication with SC-4642
181. Analysis of Tablet Taking in Puerto Rico Data
182. Short Cycles & Reactions Arranged According to Cycles of Medication
183. Variations in Cycle Length
184. 4-Hydroxyprogesterone (4-P) and Testosterone (T)
185. 19-Norethynyltestosterone (19-N) and Testosterone (T)
186. Unidentified Cells: *Access Restricted*
187. 4-Hydroxyprogesterone (4-P) and Testosterone (T)
188. Unidentified Cells: *Access Restricted*

189. 4-Hydroxyprogesterone (4) and Testosterone (T)
190. Nilevar 30mg
191. 17-Ketosteroid and Pregnanediol Values
192. Mean Cycle Lengths and Breakthroughs
193. Comparison of Doses of Progesterone and 19-Nor Steroids on Activity

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194. Excretion of 17-OH-Corticosteroids (PS) and 17-Ketosteroids (17-KS)
195. Unidentified Cells
196. Effects of Oral Progesterone-Estrogen and Norethynodrel-Estrogen on Steroid Excretion
197. Effects of Oral Progesterone-Estrogen and Norethynodrel-Estrogen on Blood Corticosteroids
198. Women Discontinuing Enovid Because of Reactions
199. Incidence of Cycles Less than 24 Days in Various Groups of Patients
200. Diurnal Variation of NE and E Excretion of Six Normal Subjects
201. Percentage Increase of Day Sample Over Night
202. Comparison of the Mean Urinary Outputs of Various 17-Ketosteroids
203. C<sup>14</sup> Progesterone
204. Radioactivity of Adrenal-Free Cholesterol Fraction and Derivatives
205. Radioactivity of Cortical Hormones and Their Derivatives
206. Untitled
207. Untitled
208. Incorporation of C<sup>14</sup> Cholesterol into Corticosteroids
209. C<sup>14</sup> Progesterone F & B
210. C<sup>14</sup> Acetate F & B
211. Average Menstrual Cycle Lengths in Control & Experimental (E) Cycles
212. Effects of Progesterone-Estrogen on Steroid Excretion
213. Effects of Progesterone-Estrogen on Indices of Ovulation
214. Effects of Progesterone-Estrogen on Blood Steroids
215. Effects of 17-Ethinyl Estraenolone on Steroid Excretion
216. Effects of 17-Ethinyl Estraenolone on Blood Steroids
217. Comparison of Glycogenic Activity with Corticosterone Content in Perfusates
218. Recirculation of DOC Perfusates Through Adrenal
219. Glycogenic Activity of Bovine Adrenal Perfusates
220. Steroids from Human Adrenal Perfusates, Before and After Perfusion with ACTH

221. Untitled
222. Untitled
223. Untitled
224. Capacity of Bovine Adrenal to Produce 11 Oxy Steroid
225. Effect of DOC Concentration Upon Rate of 11 Hydroxylation
226. Effect of Blood Flow Upon 11-Hydroxylation
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229. Specific Activities of Cortical Hormones and Their Derivatives
230. Rate of 11-Hydroxylation at Varying Intervals of Perfusion
231. Patterns in ACTH Perfusates
232. Untitled
233. Products of C-21 Steroid Perfusion
234. Adrenal Perfusion of Corticosterone
235. Effect of Intrarterial Injection of Epinephrine HC 1
236. Recovery of Steroids From Adrenal Perfusates and From Non-Perfused Blood
237. Reactions Effected by the Isolated Perfused Adrenal
238. Untitled
239. Compounds Isolated Following the Perfusion of Various Steroids
240. Untitled
241. F.S. Content of Perfused and Non-Perfused Glands Relative to F.S. Released
242. Steroid Ketols Identified in Adrenal Perfusates
243. Alpha-Ketols After ACTH Beef Glands
244. Adrenal Perfusion of 17 Hydroxy-11 Desoxycorticosterone
245. Untitled
246. Untitled
247. Untitled
248. Effects of 17-Ethinyl Estraenolone on Menstrual Cycle Length
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253. Effects of Progesterone-Estrogen on Cycle Lengths
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255. Rate of Cortisone Utilization by Perfused Rat Liver

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257. Reactions Effected by Isolated Perfused Adrenal

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259. Untitled

260. Untitled

261. Compounds Identified in Human Adrenal Vein Blood

262. Content of Various Steroids in Peripheral and Adrenal Vein Blood

263. Content of Saturated Ketols Seen in Peripheral and Adrenal Vein Blood

264. Content of Various Steroids in Peripheral and Adrenal Vein Blood

265. Content of Various Steroids in Peripheral and Adrenal Vein Blood

266. Number of Substances Probably Produced by the Adrenal

267. Relative Frequency of Occurance of Corticoids – Human Adrenal Glands

268. Effect of ACTH on Corticosteroid Output of Human Adrenals

269. Content of Various Steroids in Human Adrenal Perfusates

270. Content of Various Steroids

271. Content of Various Steroids

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274. Corticosteroids in Perfusates from Human Adrenal Glands

275. ACTH Perfused Through Human Adrenals

276. FS Concentration in Human Blood Before and After Perfusion

277. Corticoids in Perfusates from Human Adrenal Glands

278. Corticoids of Human Urine

279. Mean Fomaldehydogenic Substance Concentration Following Glucuronidase Hydrolysis of Urine.

280. Corticoids of Human Urine

281. Corticoids of Human Urine

282. Daily Output of Corticosteroid in Schizophrenic Subjects

283. Mean Output of Formaldehydogenic Substance in Three Major Fractions

284. Compounds Indicated by Paper Chromatography Analysis

285. Mean Output

286. Daily Output of Corticosteroid in Normal Subjects

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288. Untitled
289. Ratios of Mean Amounts RL and FS in Later Chromatographic Eluates
290. Steroid Recovery
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292. Untitled
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297. Untitled
298. Untitled
299. Untitled
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301. More Polar Compounds in Order of Increasing Running Rates
302. Summary of Corticoids in Human Urine and in ACTH Stimulated Human Adrenal Perfusates
303. Paper Chromatographic Pattern of More Polar Fraction
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305. Corticoids Obtained from Human Synovial Fluid
306. Silica Gel Chromatogram Fractions Before and Following Adrenalectomy
307. Excretion of Formaldehydogenic Substance (FS) Pre and Post Bilateral Adrenalectomy
308. Paper Chromatographic Pattern of Less Polar Fraction
309. Urinary Corticosteroid Analysis
310. Steroidal Substances in Urine Preceding and Following Adrenalectomy
311. Less Polar Compounds in Order of Increasing Running Rates
312. Most Polar Compounds in Order of Increasing Running Rates
313. Most Polar Compounds in Order of Increasing Running Rates
314. More Polar Compounds in Order of Increasing Running Rates
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316. Development of Silica Gel Chromatography
317. More Polar Compounds in Order of Increasing Running Rates
318. Urinary Indices of Adrenocortical Response to ACTH
319. Mean Basal Values of Certain Indices of Adrenocortical Activity
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326. Effect of Placebo and Nilevar Medication on Clinical Test Levels
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328. Non Ketonic
329. SB KS
330. Total Estrogen
331. Unidentified Image
332. Photoperiodic Requirement and Gestation Period
333. Nilevar 60mg
334. Urinary Output – Nilevar 30mg
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337. Analysis of Tablet Taking in Puerto Rico
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339. Responsivity to ACTH
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341. Untitled
342. Untitled
343. Table III
344. Untitled
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- 354. Table IV
- 355. Table V
- 356. Table VI
- 357. Comparison of Corticosteroid Output from Human Adrenals
- 358. Corticosteroidogenesis
- 359. Estrogens in Pregnancy (Humans)
- 360. Metabolism of Progesterone
- 361. Major Results
- 362. Untitled
- 363. Steroids Isolated from Testes
- 364. Metabolism of Testosterone
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- 366. Urinary 17-Ketosteroid Excretion
- 367. Table X
- 368. Nilevar 60mg
- 369. Table VIII (page 2)
- 370. Table II
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- 374. Untitled
- 375. Untitled.
- 376. Untitled
- 377. Urinary 17-Ketosteroid Excretion of Normal Healthy Men
- 378. Metabolism of 17 $\alpha$ -Hydroxy-11-Desoxycorticosterone
- 379. Effects of Fertilization and Activation in O<sub>2</sub> Uptake of Rabbit Ova
- 380. Aldosterone Excretion in Anxiety States
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- 382. Steroids Isolated from Human Placenta
- 383. Steroids Isolated from Ovaries
- 384. Sexogens Present in Secretory Organs
- 385. Table I (cont.)

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- 386. Relationship Between Tissue Hormones and Urinary 11-Oxygenated 17-Ketosteroids

387. Recovery of Administered Steroids in Aged Men
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390. Comparison of 17-Ketosteroid Outputs by Men of Various Ages
391. Unknown Image
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393. Administration of C<sup>14</sup> Carboxy Labeled Acetate
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395. Experimental Superfetation in Rabbit
396. Effect of Inhibitory Substances and Metabolites on Respiration of Ova
397. Untitled
398. Ratio of Major Steroids in Adrenal Vein Blood of Various Species
399. Trace of Corticosteroids Present in the Adrenal Blood of Various Species
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402. Untitled
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404. Untitled
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407. Pipetting Device
408. Development of Blastocysts Transplanted
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410. Neutral Reducing Lipids
411. Untitled
412. 17-Ketosteroids
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414. Untitled
415. Untitled
416. Untitled
417. Untitled
418. Untitled
419. Untitled
420. Untitled

421. Untitled
422. Untitled
423. Untitled
424. Untitled
425. Untitled
426. Untitled
427. Untitled
428. Untitled
429. Lymphocytes
430. Various Components of the Urinary 17-Ketosteroid Mixture
431. Untitled
432. Untitled
433. Comparison of Prestress (Basal) Values of Various Urine and Blood Constituents
434. Relation of Age to Non-Ketonic and N.R.L. Excretion Values
435. Relation of Age to 17-KS Excretion Values
436. 17KS. – Sb – MG/HR
437. Non-Ketonic Steroid – MG/HR
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439. KS – Z – MG/24 HR
440. Estimation of Glandular Production of Steroids from Urinary Data
441. Methods Employed in Investigation of Adrenocortical Secretion
442. Solvent Systems for Paper Chromatography of Cortisone and 17-Hydroxycorticosterone
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445. Formaldehydogenic Lipids
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448. Untitled
449. Untitled
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463. ACTH Action
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466. Production of Corticosteroid In Vivo and In Vitro
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469. Comparison of Adrenocorticosteroid Output Rates
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471. Changes in Interstitial Gland of the Rabbit Ovary
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473. Untitled
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483. Untitled
484. Untitled
485. Mean Loss of ACTH Activity
486. Mean Loss of ACTH Activity
487. Untitled

488. Effects of Various Dosages and Methods of Administration of Microcrystalline Progesterone
489. Effects of Various Dosages and Methods of Administration of Ethinyl Testosterone
490. Effects of 17-Methyl Progesterone on Ovulation in Rabbit
491. Effect of Oral Administration of Ethinyl Testosterone on Ovulation, Fertilization, and Implantation in Rabbit
492. Effects on Ovulation in Rabbits of Deposition of Progesterone, 17a-Hydroxyprogesterone, and Allopregnene
493. Effects of Macrocrystalline Suspension of Progesterone Injection
494. Effects of Various Dosages and Methods of Administration of 17-Methyl Progesterone
495. Inactive Compounds
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497. Untitled
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004. Number of Pregnancies per 100 Years of Exposure to Various Methods of Contraception
005. Comparisons of Reasons for Leaving Given by Subjects in San Juan, Puerto Rico
006. Percentage Increases of Food Supply Needed 1958-1980
007. Number of Hours of Work Required for an Average Factory Worker to Earn the Cost of Three Representative Diets for One Person for One Day
008. Rate of Occurrence of Anaplastic Smears in Contraceptive Users
009. All Drop Outs for All Reasons
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011. Progestins
012. Effects
013. Effects
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015. Effects
016. Population of World
017. Percent of Study Population Listed as Inactivated
018. Percent Population Increases by Major Regions, 1900 to 2000



019. Projected Population Increases 1960 – 1975
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021. Patients Lost to Maternal Health Study at Four Clinic Centers
022. Patients Lost to Maternal Health Study at Four Clinic Centers
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026. Hematological Determinations in Users of Enovid and Ovulen
027. Mean Cycle Lengths in Enovid Users
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044. Population Growth in the United States
045. World Population Changes, 1920-2000
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053. Compounds Active as Inhibitors of Implantation in the Rat
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055. Plasma Corticosteroid Values in Enovid Users
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064. Percentages of Active Cases Listed as Reactivated
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066. Pituitary Cytology of Rats Receiving Ethymodiol Diacetate and Metranol
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068. Effects of Various Steroids
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074. Effect of Compound V Injected on Different Dates
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087. Antispermatic Steroids
088. Implantation Inhibiting Steroids of Special Interest
089. Implantation Inhibiting Steroids of Special Interest
090. Untitled
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092. Ovulation Inducing Potentials of Progesterone and Some Common Progestins
093. Effect of X-Rays on Urinary Concentrations of Cortisol
094. Correlation Between Estrogenic and Antiovarian Activities
095. Antiovarian Activity of Several Estrogens
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097. Steroid Excretion by Contraceptive Users
098. Steroid Excretion by Contraceptive Users
099. Stressor Agents
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101. Effects of Oestrone on Movement of Rat Ova
102. Effects of Oestrone on Movement of Rat Ova
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107. Comparison of Within Man and Between Man Variances in Urinary 17-Ketosteroid Output Values
108. Untitled
109. Effects of Oestrone on Movement of Rat Ova
110. Untitled
111. Estrogen Reverses Norethindrone Blockade
112. Ovulation Response of Estrous Rabbits to Exogenous LH
113. Doses of Several Gestagens Necessary for Different Effects
114. Untitled
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117. Antispermatic Steroids
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119. Statistics of Abortion in Santiago
120. Plasma Corticosteroid Values Preceding and During Medication

121. Plasma Corticosteroid Values Preceding and During Medication
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129. Compounds Ineffective in Inhibiting Superovulation
130. Cervical Smear Changes in Enovid Users
131. Glucose Tolerance and Orinase Diagnostic Tests
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137. Puerto Rican Samples
138. Puerto Rican Samples
139. Mean Values in IU of LH per Liter
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144. Puerto Rico – Rio Piedras – 1966 - BSP
145. Puerto Rico – Rio Piedras – 1966 – Alkaline Phosphatase
146. Untitled
147. Puerto Rico – Rio Piedras – 1966 – Hematocrit
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149. Inactive “Inverted” Steroids
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153. Puerto Rico – Rio Piedras – 1966 – Thymol Turbidity

154. Endocrine Organ Weights in Rats Fed Enovid
155. Oocyte Population and Follicle Atresia in Rats Fed Enovid
156. Gonadotrophic Potency of Rats Fed Enovid
157. Response to PMS – HCG Treatment in Rats Fed Enovid
158. Ratios of Implantation Inhibiting to Uterotrophic and Antiprogestational Activity
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160. Cortisol Production Rates in Long Term Enovid Users
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163. Protein Bound Iodine in Enovid Users
164. Plasma Concentrations and Metabolic Clearance Rates
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166. Development of Chloasma – Rio Piedras
167. Hematocrit Values of Subjects in Rio Piedras
168. Analysis of Endometrial Biopsies in Enovid Users
169. Tables
170. Tables
171. Untitled
172. Journal Article
173. Tables
174. Tables
175. Enovid in Rhesus Monkeys
176. Enovid in Rhesus Monkeys
177. Metabolism of Norethindrone in Humans
178. Untitled
179. Uterine Weights of Mice
180. Recovery in Milk of Radioactivity Administered Orally as 19-Norsteroids
181. Effect of Removal of the IUFB on the Decidual Reaction in the Rat
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183. Effect of Removal of the IUFB on Pregnancy in the Rat
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- 223. Humacao
- 224. Table
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- 228. Table
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- 232. Humacao – Enovid
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- 235. Chart
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- 243. Mean Ration of Excretion of THF, ALLO-THF, and THE per 24 Hours
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- 245. Table 3
- 246. Untitled
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**Series 21: Worcester Foundation Auxiliary, 1946 - 2000 (Box 16)**

Scrapbooks (3)

Article: Worcester Foundation Auxiliary History, 1947-1997

**Series 22: Artifacts (Box 16)**

Image of barn at Clark University- wooden block