A Guide to the papers of Ruth Sager (1918-1997)
Marine Biological Laboratory
Woods Hole, MA 02543

Processed by
Jean Monahan

Archives of the Marine Biological Laboratory
7 MBL Street
Woods Hole, MA 02543
August 24, 2000

Manuscript Collection MC-MBL-Sager/Sci, AC-2004-17
(One 17” x 11” x 3” Box and Twenty-two 24” x 12” Boxes)

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BIOGRAPHICAL INFORMATION

Ruth Sager, one of three sisters, was born in Chicago on February 7, 1918, to Leon Sager and Deborah Borovik Sager. She was reared by her stepmother, Hannah, in a home honoring scholarship. After graduating from New Trier High School at the age of 16, Ruth entered the University of Chicago and received an S.B. in mammalian physiology in 1938. Her interest in science was sparked by Anton J. Carlson’s lectures who she considered to be “…just a fantastic teacher.” She continued her education at Rutgers University and received an M.S. in plant physiology in 1944. After World War II, during which she was a secretary and an apple farmer, she earned her Ph.D. in maize genetics under Marcus M. Rhoades at Columbia University. She was a Merck postdoctoral fellow with Sam Granick at the Rockefeller Institute from 1949 to 1951, working on chloroplast. Then she became a staff member at Rockefeller, choosing the alga *Chlamydomonas reinhardtii* as a model organism. Dr. Sager married Seymour Melman in 1944 and then Dr Arthur Pardee in 1977.

Dr. Sager was a research scientist at Columbia University from 1955 to 1965 and worked in Edinburgh for a year during that period. In 1966 she became a professor at Hunter College and finally, in 1995, she was appointed professor of cellular genetics at Harvard Medical School among the first women to gain a full professorship at Harvard. She was also Chief of the
Division of Cancer Genetics at the Dana-Farber Cancer Institute. Her other achievements include a Guggenheim Fellowship at the Imperial Cancer Research Fund, London, during 1972-73 and election to membership of the National Academy of Sciences in 1997.

Dr. Sager believed genetics was the core of biology, and she set out to prove it. During her final 25 years she transferred her efforts from organelle, non-nuclear genetics to the genetics of cancer. Her legacy is expressed in the quotation from M. D. Reynolds book, American Women Scientists – Inspiring Biographies 1900-2001 “For more than half a century Ruth Sager has been a role model for women in health-related scientific research. She demonstrated vision, insight and determination to develop novel scientific concepts in the face of established dogmas. Her pioneering researches and original ideas continue to make contributions to biology.”

PROVENANCE

Dr. Ruth Sager’s papers were donated to the MBL Archives by her husband, Dr. Arthur Pardee. They were physically brought to the Archives by Ms. Gail Schmidt, a science historian who is preparing a biography about Dr. Sager. Ms. Schmidt had gone through the papers briefly and put some in groups.

ARRANGEMENT

The papers have been put into categories: biographical information with degrees, honors and bibliography; workbooks; lab notes; correspondence; culture files and one box of slides and discs.

SCOPE AND CONTENT

The Sager Collection includes one 17” x 11” x 3” box and twenty-two 12” x 24” boxes. They contain correspondence, lab notes, class notes, cultures, slides, discs and biographical information.

RELATED COLLECTIONS

There is a short biographical file regarding Dr. Arthur Pardee, Dr. Sager’s husband, in the Biographical Files in the Agassiz Room.
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6 Clilandomonas 1980
7 D-822 [Conie Grabowy] 1980
8' Experiment 25
9 Active Gene – MQ – column 1981
10 Base Analysis – Book III 1978
11 Anti m°C – original X-Ray film, etc. 1980
12 Base Analysis – Book II 1978
13 Base Analysis – Book I 1978
14 Hybrid 1 [Barb Smith] 1978-79
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21 Cystic Fibrosis [Bob Curtin] [Dottie Milton] (1 of 2) 1986-87
22 Cystic Fibrosis (2 or 2) 1986-87

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2 [Evelyn D.] Growth factors 1985
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12 Kijiyi Tanaka lab notes – Dot blots and probes 1982-83
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