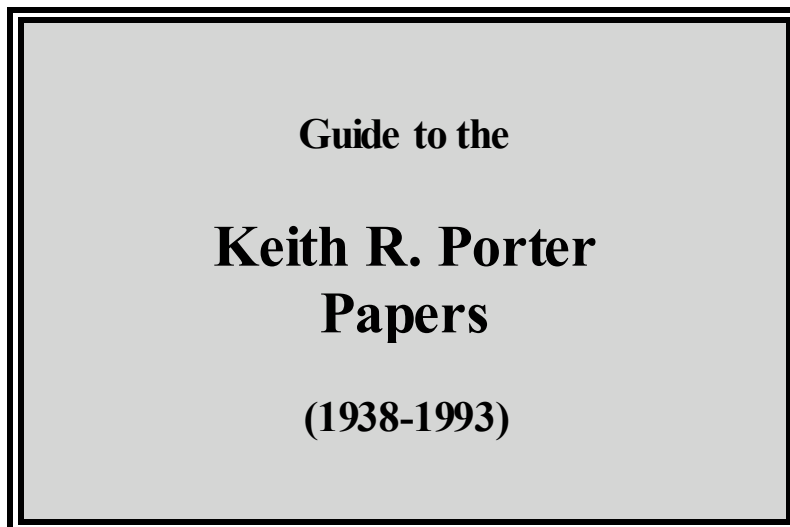


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**KEITH R. PORTER PAPERS. 187.5 LINEAR FEET**

**ABSTRACT**

Keith Porter (1912-1997) was a leading cell biologist of the twentieth century. Porter was born in Nova Scotia. He completed his undergraduate education at Acadia University and earned Master's and Ph.D. degrees at Harvard University. After a year at Princeton, he joined the Rockefeller Institute in 1939. There he became involved in research that led in 1944 to the first picture of a whole cell taken with an electron microscope. Porter's career took him from Rockefeller to Harvard in 1961 and then to the University of Colorado in 1968. At CU Porter presided over the creation of the new department of Molecular, Cellular, and Developmental Biology, and arranged for a million volt electron microscope to be installed in the department's new facilities. In 1984 Porter left Colorado for the University of Maryland, where he stayed until 1987. His final post was at the University of Pennsylvania. Porter received numerous awards, including in 1977 the Medal of Science presented at a ceremony in the White House by President Jimmy Carter.

Gift of Keith R. Porter, 1987-1994  
Processed by Sylvia Bugbee, April 1998  
Reprocessed by Katherine Harris, January 2003

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**BIOGRAPHICAL SKETCH**

Keith Porter is regarded as one of the founders of the modern science of cell biology. As a young scientist in 1944, Porter teamed up with Albert Claude and Ernest Fullam to produce the first picture of a whole cell taken with an electron microscope. That achievement led to a lifelong search using electron microscopy to uncover the secrets of cells and their subcellular components. Porter made fundamental contributions to improvements in tissue culture and microscopy. But he is best known for his discoveries relating to cell structures, including the endoplasmic reticulum, cilia, microtubules, autolysosomes, coated vesicles, and the focus of much of his later work -- the microtrabecular lattice. For his many achievements, Porter received numerous awards and eleven honorary degrees.

Keith Roberts Porter was born in Yarmouth, Nova Scotia, on June 11, 1912. In 1934 he received a Bachelor of Science degree from Acadia University and began graduate school at Harvard, where he earned Master's and Ph.D. degrees. In 1938 Porter married Elizabeth Lingley and undertook a post-graduate fellowship at Princeton. The following year he began his long association with The Rockefeller Institute for Medical Research in the laboratory of James Murphy. Initially, he studied embryos of geographically distinct populations of *Rana pipiens*. That work was interrupted in the early 1940s when Porter, his wife and infant son contracted tuberculosis. The Porters' son died, and both parents spent extended periods in a sanitarium. During this time, Porter investigated tuberculosis bacilli, and gained insights into culturing bacteria and distinguishing artifacts in bacterial samples prepared for light microscopy. These insights aided Porter when he returned to full time work at Rockefeller and turned his attentions to developing techniques for tissue culture. Porter collaborated with Claude in extraction experiments aimed at isolating components from cultured cells, including cancer causing particles from tumor cells. It was this work, with the assistance of the electron microscopist Ernest Fullam, that led to the first electron micrograph of a whole cell.

Subsequently, Porter intensified his efforts to improve methods of tissue culture and refine the technologies needed to prepare samples for electron microscopy. Porter helped found the Tissue Culture Commission in 1946 (later called the Tissue Culture Association) and became its first chairman. For many years Porter was actively involved in the Association, teaching many of the tissue culture classes sponsored by the Association, and served as president of the TCA from 1978 to 1980. As Porter helped bring about advances in the science of tissue culture, he became increasingly frustrated with microtomes that failed to produce reliable, intact thin sections of whole tissues needed for good viewing with the electron microscope. Collaborating with J. Blum, Porter developed the Porter-Blum microtome, which in 1953 marked a significant advance in microtomy. This and other technical solutions allowed for clearer pictures, which Porter used to good advantage. His observations on cell structures placed him in the vanguard of his field. Several papers elucidating the endoplasmic reticulum and its various roles in animal and plant cells were authored or co-authored by Porter in the 1950s and early 1960s. Porter's important contributions to the understanding of the sarcoplasmic reticulum and its function in muscle cells demonstrated how one type of cellular organelle (the endoplasmic reticulum) could adapt to different kinds of tissues. During this same period, Porter also published extensive studies on collagen, and early work on the structure of microtubules within ciliated epithelia.

As the decade of the 1960s progressed, Porter continued his studies of cell fine structure, conducting

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extensive experiments on the fine structure of liver cells and the changes that occurred during glycogen metabolism. Porter's interest in microtubules also increased as he became convinced of their role in determining cell form and intracellular movement. Through experiments designed to elucidate the aggregation and dispersal of fish chromatophores, Porter demonstrated the role of microtubules in the movement of structures within cells.

Meanwhile, Porter's growing reputation as a cell biologist led to his high profile involvement in scientific societies and various ventures, publishing and otherwise. In 1960-1961 Porter led a group of cell biologists in the founding of the American Society for Cell Biology. In 1962 the ASCB became a co-sponsor, with the Rockefeller University, of the *Journal of Cell Biology*. The JCB had begun life as the *Journal of Biophysical and Biochemical Cytology*, established in 1955 with Porter as the Managing Editor. The ASCB quickly grew in importance as a forum for cell biologists to exchange ideas, to promote education in cell biology, and to increase government funding for the biological sciences. By the middle of the following decade (1976), the society undertook the enormous task of holding the First International Congress for Cell Biology in Boston. Porter played a major role in organizing and hosting the Congress.

The 1960s and 1970s were also years during which Porter moved to challenging new jobs in academia. In 1961, after more than twenty years at Rockefeller, Porter accepted a professorship in the Department of Biology at Harvard. From 1965 to 1967 he served as chairman of that department. But Porter was lured away in 1968 by an offer from the University of Colorado at Boulder to create his own department of cell biology. This was an ambitious period during the university's planning and development when it sought to build prestige by bringing in top academics in a number of fields. With strong backing from the University of Colorado, Porter, as chairman (1968-1974) of the new Department of Molecular, Cellular and Developmental Biology, arranged for a million volt electron microscope to be brought to the new department. This high voltage electron microscope, one of only three in the country, was used by Porter and his colleagues to view the interior of cells three dimensionally and gain a better understanding of cell organelles and their relationships to surrounding cell structures. One of the most publicized outcomes of this work was the separation of cell karyoplasts from cytoplasts and their recombination to form "hybrid" cells. Porter and his collaborators used the technique in part to explore the fundamental causes of muscular dystrophy. Also during this period, a new scanning electron microscope allowed another kind of three dimensional look at cells and tissues, showing surface morphologies in great detail. Porter participated in extensive studies of cell surface structures, identifying the differences between normal and malignant cells through the stages of the cell cycle.

Porter's tenure at the University of Colorado from 1968 to 1984 was a period of great activity. As an experimental cell biologist and as a department and facilities developer, Porter received many accolades. The University showed its gratitude by awarding Porter in 1973 the Robert L. Stearns Award for Distinguished Service to the University of Colorado. In 1978 he became one of two professors to receive the first "Distinguished Professor" title at the University of Colorado. These were just two of more than two dozen awards that Porter acquired over the course of his career – more than half of them coming to Porter during his stay at CU. Among the most visible was the National Medal of Science awarded to Porter in 1977 by President Jimmy Carter. Other honors followed. The Keith R. Porter Endowment for Cell Biology was established by students of Porter in 1981 to honor his contributions through programs to advance education in cell biology. The

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following year, in honor of Porter's seventieth birthday, the "Porterfest" symposium was held in Boulder, during which the latest work in cell biology was presented by Porter's students and colleagues.

Porter spent the final stages of his professional life first at the University of Maryland, and then at the University of Pennsylvania. From 1984 to 1987 he held the titles of Wilson Elkins Distinguished Professor and Chairman of the Department of Biological Sciences, University of Maryland, Baltimore County. During this period, Porter continued his work on the cytoplasmic matrix and the microtrabecular lattice. Following his retirement from UMBC, Porter moved to the University of Pennsylvania where he received an appointment as Distinguished Research Professor of Biology.

In 1997 shortly before his eighty-fifth birthday, Porter died in Bryn Mawr, Pennsylvania. His death followed by four years the death of his wife Elizabeth Porter. He was buried near his birthplace in Pleasant Valley, Nova Scotia.

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**SCOPE AND CONTENT**

The Porter papers document the long and distinguished scientific career of one of the century's leading cell biologists, Keith Roberts Porter. These papers also provide insights into Porter's relationships with colleagues, students, friends, and acquaintances. The documents span a period of fifty-five years, from 1938 to 1993 (excluding reprints and notes on publications dating back to the nineteenth century). They include experiments, correspondence, manuscripts, lectures, audio-visual materials, grant proposals, and reprints that Porter generated himself or used in the course of his activities. Biographical materials on Porter are located in Box 232; bibliographic materials in Box 231 and Box 232. Materials on Porter's wife, Elizabeth Porter, are located in Box 231. (Additional biographical materials and information on electron microscopy are located in a separate folder within the Porter Information File.)

The collection is organized into eleven sections. **I. EXPERIMENTS** covers experiments performed by Porter or in Porter's laboratory from 1939 to 1980. The experiments are listed alphabetically and include Porter's early genetic studies on the embryos of geographically distinct races of the frog *R. pipiens*, as well as his seminal discoveries relating to tissue culture, the endoplasmic reticulum, muscle and liver cell structure, cilia, microtubules, and -- towards the end of his career -- the microtrabecular lattice, identified by Porter as an important feature of cell ground substance. Beginning in 1944, Porter's experiments relied on electron microscopy to reveal cellular structures more clearly and completely than had earlier been possible. He developed many of the techniques, including innovations in tissue culture and microtomy, that became standard tools of cell biologists. The development of these techniques is reflected in the experiments. As more technically advanced electron microscopes became available, Porter's experiments revealed new insights into cell structures. In the early 1970's Porter began publishing results from experiments using the high voltage electron microscope (HVEM). In contrast to the relatively low energy electron beam of the standard transmission electron microscope (TEM), the HVEM electron beam achieved greater penetration into the cell, allowing cell structures to be viewed three dimensionally. Also in the early 1970's, Porter began experimenting with the scanning electron microscope (SEM) to study cell surfaces. Thousands of electron micrographs, which provide the primary evidence for much of Porter's work, are filed with the experiments.

Section **II. MANUSCRIPTS** contains papers that Porter authored or co-authored, and additional papers by other authors. Porter himself had filed these manuscripts in individual folders. The manuscripts are organized alphabetically by author, or by title when no author is identified. Many include electron micrographs chosen to illustrate the manuscript. Some files include correspondence and notes written in connection with particular manuscripts. Box 141, Folder 5, contains the original Porter, Claude, Fullam paper ("A Study of Tissue Culture Cells by Electron Microscopy," 1945), including the first published image of a whole cell taken with an electron microscope. **III. CORRESPONDENCE** is organized into two parts, following Porter's own filing system. The first part is sequenced alphabetically by correspondent, as well as chronologically. The second part of the correspondence is filed chronologically. The correspondence folders include a few electron micrographs sent with particular letters. **IV. SUBJECT FILES** contains files on people, organizations, institutions, publishers, publications, scientific meetings and other topics. They are

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organized alphabetically by name, title, or subject. Electron micrographs, manuscripts, and correspondence are included in many of these files.

Audio-visual materials are organized in the following three sections. Separate files of prints and transparencies, including a few drawings, are contained within the section identified as **V. ELECTRON MICROGRAPHS**. Porter kept files of micrographs in order to provide quick access to extra prints, which could be sent out in response to micrograph requests. Porter also kept files containing manuscript figures, as well as files of micrographs that he particularly liked or found especially useful to illustrate cell structures. The micrographs are organized alphabetically by cell/tissue type, by cell component, by Porter's title (e.g. "HVEM Extras"), and by manuscript author. **VI. RECORDED LECTURES** consists of thirty-five seven-inch reel-to-reel audio tapes and one seven-inch record disk. Thirty-four of the tapes are numbered and appear to be recordings of two series of lectures presented from 1965 to 1966 by Porter and his colleagues. [See also section **X. LECTURES (MANUSCRIPT)**.] **VII. FILMS** contains twelve reels of film on various subjects related to cell biology. The films are organized alphabetically by title.

Section **VIII. GRANTS** contains Porter's collection of grant proposals. Most bear his name; a few are grant proposals written by colleagues. This section also holds Porter's Muscular Dystrophy Association grant account records from 1978 to 1983. For a period of time, Porter served the Muscular Dystrophy Association on its Scientific Advisory Committee. One folder (dated 1972-1973) contains grant applications which Porter reviewed during his service on that committee.

Over the course of his career, Porter collected a large number of scientific articles related to his work as a cell biologist. These are organized alphabetically by author in **IX. REPRINTS**. Porter occasionally chose to file reprints by an author other than the first one listed on a paper. The publications in this section are filed in accordance with Porter's system.

**X. LECTURES (MANUSCRIPT)** contains lectures given for conferences, symposia, and special courses. The folders include some electron micrographs, reprints, and correspondence. They are organized alphabetically by subject or title. [See also section **VI. RECORDED LECTURES**.]

The final section, **XI. OVERSIZE**, includes items too large to include in standard container boxes. Among the oversize materials are micrographs, drawings, graphs of data, posters, cytology slides, and two films.

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I. EXPERIMENTS

- 1 1 Acrolein + OsO4: Thick/Thin Sections, 1965
- 2-3 *Amblystoma* Studies: Epidermis, 1953 – 1954 (1,2 of 2)
- 4 *Amblystoma* Studies: Notochord, 1956
- 5 *Amblystoma* Studies: Pancreas, 1954
- 6 *Amblystoma* Studies: Yolk Platelets, 1958
- 7 *Amphiuma* Studies, 1970 – 1971
- 8 A31 Cells: Effects of Insulin (SEM), c. 1973
  
- 2 1 ATP Studies: Mouse Testis, 1964
- 2 *Balanoglossus sp.*, 1963
- 3 Basophilia IV, 1953
- 4 Bleeding and Re-Injection Studies: Procedures, n. d.
- 5 Bone Marrow Culture (SEM), 1972
- 6 Brain (Rat), 1962
- 7 Cancer Induction in Amphibians, 1940 – 1941
- 8 Carbowax Tissue Embedding, 1979
- 9 Cartilage (Rabbit) (SEM), 1971
- 10 Cell Particle Multiplication (4337 Tumor Cells), 1947
- 11 Chicken Buffy Coat Cells, 1956
- 12 CHO Cells: SEM Studies of c-AMP vs. c-GMP, 1974
  
- 3 1-3 CHO Cells: SEM Studies of Growth Cycle (Prescott I), 1971 – 1972  
(1,2,3 of 3)
  
- 4 1-2 CHO Cells: SEM Studies of Growth Cycle (Prescott II), 1971 – 1972 (1,2  
of 2)
- 3 CHO Cells: Surface Changes Due to Cell Density/Cyto.-B, 1972 & n. d.
  
- 5 1 Chromatolysis I: Frog Spinal Cord – 2 Days Post Op., 1962
- 2 Chromatolysis I: Frog Spinal Cord – 4 Days Post Op., 1962 – 1963
- 3 Chromatolysis I: Frog Spinal Cord – 9 Days Post Op., 1962 – 1963
- 4-5 Chromatolysis I: Frog Spinal Cord – 13 Days Post Op., 1963 (1,2 of 2)
  
- 6 1 Chromatolysis I: Frog Spinal Cord – 42 Days Post Op., 1963
- 2 Chromatolysis II: Frog Spinal Cord – 14 Days Post Op., 1963
- 3 Chromatolysis II: Frog Spinal Cord – 21 Days Post Op., 1963
- 4 Chromatophore Studies: *Fundulus* and *Holocentrus*, 1969 – 1970 (1 of 3)
  
- 7 1-2 Chromatophore Studies: *Fundulus* and *Holocentrus*, 1969 – 1970 (2,3 of  
3)

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- 3 Chromatophore/Erythrophere Studies: *Holocentrus*, 1971 – 1973 (1 of 5)
- 8 1-3 Chromatophore/Erythrophere Studies: *Holocentrus*, 1971 – 1973 (2,3,4 of 5)
- 9 1 Chromatophore/Erythrophere Studies: *Holocentrus*, 1971 – 1973 (5 of 5)  
2 Chromatophore/Erythrophere Studies: *Holocentrus*: \_ \_ m non-serial sec.s, 1972 –1973  
3 Chromatophore/Erythrophere Studies: *Holocentrus*: \_ \_ m non-serial sec.s, 1972
- 10 1-4 Chromatophore/Erythrophere Studies: *Holocentrus*: \_ \_ m serial sec.s, 1973 (1,2,3,4 of 4)
- 11 1-3 Chromatophore/Erythrophere Studies: *Holocentrus*: \_ \_ m serial sec.s, 1973 (1,2,3 of 3)
- 12 1-2 Chromatophore/Erythrophere Studies: Aggregation and Dispersion, 1977 (1,2 of 2)  
3 Chromatophore/Erythrophere Studies: Motility Mechanisms, 1979 & n. d.
- 13 1-3 Chromatophore/Ground Substance Studies: *Holocentrus*, 1970 (1,2,3, of 3)
- 14 1 Chromatophore/Ground Substance Studies: *Holocentrus*, 1970  
2 Ciliated Epithelium: Data Sheets, 1952 – 1953  
3 Clotting Studies, 1950  
4 Co-Cultures: A31/SVT2, n. d.  
5 Co-Cultures: A31/SVT2/NRK/NRK-442/ TS-NRK (SEM), 1974 (1 of 2)
- 15 1 Co-Cultures: A31/SVT2/NRK/NRK-442/TS-NRK (SEM), 1974 (2 of 2)  
2-3 Co-Cultures: HeLa/WI38 (SEM), 1975 – 1976 (1,2 of 6)
- 16 1-3 Co-Cultures: HeLa/WI38 (SEM), 1975 – 1976 (3,4,5 of 6)
- 17 1 Co-Cultures: HeLa/WI38 (SEM), 1975 – 1976 (6 of 6)  
2 Co-Cultures: Kidney/Heart/Lung, 1948 – 1949  
3-4 Co-Cultures: L6/B103 (SEM), 1974 – 1975 (1,2 of 6)
- 18 1-4 Co-Cultures: L6/B103 (SEM), 1974 – 1975 (3,4,5,6 of 6)
- 19 1-2 Co-Cultures: NRK/442/WI38 (SEM), 1975 (1,2 of 2)  
3 Colchicine: Movement of Pigment in Erythropheres, 1977

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- 20 1-3 Collagen (Chem. V), 1949 –1950 (1,2,3 of 3)  
4 Collagen (Chem. V vs. “Natural”), 1948 – 1951
- 21 1-2 Collagen Culture (43-A), 1948 – 1953 ((1,2 of 2)  
3 Collagen Series, 1972 – 1973 (1 of 7)
- 22 1-3 Collagen Series, 1972 – 1973 (2, 3, 4 of 7)
- 23 1-3 Collagen Series, 1972 – 1973 (5, 6, 7 of 7)
- 24 1 Collagen/Skin Studies (L. F. #1), 1950 – 1951  
2 Collagen/Skin Studies (L. F. #2), 1950 – 1951  
3 Collagen/Skin Studies (L. F. #4), 1950 – 1951
- 25 1 Collagen/Skin Studies (L. F. # 5), 1951  
2 Collagen/Skin Studies (L. F. # 6), 1951  
3 Collagen/Skin Studies (L. F. #6), 1954  
4-5 Collagen/Skin Studies (L. F. #8), 1951 – 1954 (1, 2 of 2)
- 26 1 Collagen/Skin Studies (L. F. #10), 1951  
2 Collagen/Skin Studies (L. F. #12), 1952  
3-4 Collagen/Skin Studies, 1953 – 1954 (1, 2 of 2)
- 27 1-3 Cornea Studies, 1972 – 1973 (1, 2, 3 of 5)
- 28 1-2 Cornea Studies, 1972 – 1973 (4, 5 of 5)  
3 Cyto. B: Effects on HeLa Cells (SEM), 1975
- 29 1-4 Cyto. B: Effects on 3T3 Cells, 1973 – 1974 (1, 2, 3, 4 of 4)
- 30 1-2 Cyto. B: Effects on 3T3 Cells (SEM), 1973 – 1974 (1, 2 of 2)  
4 Cyto. B, Pressure, Temperature: Effects on 4337 Cells (SEM), n. d.
- 31 1 Cytology of Two Rat Sarcomas During Mitosis, 1947 – 1954  
2 Diatoms, 1971 & n. d.  
3 Dry Cell Fixation, 1948 – 1949  
4-5 Drying Methods for SEM, 1970 – 1972 (1, 2 of 3)
- 32 1 Drying Methods for SEM, 1970 – 1972 (3 of 3)  
2 Embryonic Rat Tissues, 1951  
3 Endoplasm II: E M of Living Cells, 1951 – 1952

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- 33 1 Endoplasmic Reticulum I, 1952 – 1953  
2 Endoplasmic Reticulum III, 1951 – 1952  
3 Endoplasmic Reticulum IV, 1953 – 1955 (1 of 7)
- 34 1-4 Endoplasmic Reticulum IV, 1953 – 1955 (2, 3, 4, 5 of 7)
- 35 1-2 Endoplasmic Reticulum IV, 1953 – 1955 (6, 7 of 7)  
3 Endoplasmic Reticulum IV: Serial Sections, 1953 – 1954  
4 Endoplasmic Reticulum in Amphibia, 1957  
5 Enucleation Studies, c. 1973 – 1974  
6 Epinephrine Perfusion, 1966
- 36 1 Fibrinogen Studies (Hawn 7 & 7a), 1947  
2 Fibrinogen Studies (Hawn VIII), 1946 – 1950  
3 Fibrinogen Studies (Hawn IX), 1947  
4 Fibrinogen Studies (Hawn X), 1945 – 1947  
5 Fibrinogen Studies (Hawn XI), 1947 – 1948
- 37 1 Fibrinogen Studies (Hawn XIII – Hawn XVII), 1947 – 1948  
2 Fibrinogen Studies (Hawn XVIII), 1948  
3 Fibrinogen Studies (Hawn XIX), 1948  
4 Fibrinogen Studies (Hawn XXIII), 1948  
5 Filtration to Achieve Sterility in Tissue Culture Media, 1946  
6 Fixation Studies, 1945 – 1951
- 38 1 Fixation Studies: Formalin & OsO<sub>4</sub> (Fix. 10), 1949 – 1951  
2 Fixation Studies: Formalin (Fix. 10b), 1946 – 1950  
3 Fixation Studies (10d & 10e), 1950 – 1951  
4 Fixation Studies: Glut. Fixation of CHO Cells for SEM, 1972
- 39 1 Fixation Studies: Optimum Duration of OsO<sub>4</sub> Vapors, n. d.  
2 Fixation Studies: OsO<sub>4</sub> (Exp. 53), 1946  
3 Fixation Studies: OsO<sub>4</sub> #1, 1949  
4 Fixation Studies: OsO<sub>4</sub> #3, 1949  
5-6 Fixation Studies: Various Tissues/Cells, 1960 – 1962 (1, 2 of 6)
- 40 1-3 Fixation Studies: Various Tissues/Cells, 1960 – 1962 (3, 4, 5 of 6)
- 41 1 Fixation Studies: Various Tissues/Cells, 1960 – 1962 (6 of 6)  
2 Fixation/Staining Studies, 1965  
3 Frog Embryos: Effect of Temperature, 1941 – 1942  
4 Frog Haploid and Diploid Nuclei: Division Rates, 1941 – 1942  
5 Frog Haploid Studies: Metamorphosis, 1939 – 1940

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- 6-7 Frog Hybrid Studies, 1939 – 1944 (1, 2 of 6)
- 42 1-3 Frog Hybrid Studies, 1939 – 1944 (3, 4, 5 of 6)
- 43 1 Frog Hybrid Studies, 1939 – 1944 (6 of 6)  
2 Frog Nerve Impulse Velocities, 1942  
3 Frog Populations, 1941 – 1942  
4 Frog Respiration, 1940 – 1942  
5 Frog Retina, 1957  
6 Frog Spleen, 1949
- 44 1 Frog Studies: Various Tissues, 1954  
2 Frog Tongue, 1956  
3 Frog Tumor Studies, 1942  
4 Frozen Tissues: Viability for Culturing and Inoculation, 1943 – 1955  
5 Growth Granules and Filaments in 4337 Tumor Cells, 1952  
6-7 HeLa Cells (SEM and TEM), 1972 – 1973 (1, 2 of 5)
- 45 1-3 HeLa Cells (SEM and TEM), 1972 – 1973 (3, 4, 5 of 5)  
4 Hepatoma (4337), 1963 – 1964  
5 Hepatomas: Slow and Fast Growing, 1961
- 46 1-4 HSV Infected Cells (SEM and TEM), 1973 – 1974 (1, 2, 3, 4 of 6)
- 47 1-2 HSV Infected Cells (SEM and TEM), 1973 – 1974 (5, 6 of 6)  
3 Human Hair (SEM), 1971  
4 HVEM of Chick and 4337 Cell Cultures, 1971 – 1972 (1 of 2)
- 48 1 HVEM of Chick and 4337 Cell Cultures, 1971 – 1972 (2 of 2)  
2 HVEM Methods: Bat and Rat Tissues, 1976  
3 Induction of Type-C RNA Viruses, 1974 & n. d.
- 49 1 Intestine, 1966  
2 Intestine: Fat Absorption – Ag Marker, 1965  
3-5 Intestine: Fat Absorption – Fe Series, 1965 – 1966 (1, 2, 3 of 4)
- 50 1 Intestine: Fat Absorption – Fe Series, 1965 – 1966 (4 of 4)  
2 Intestine: Fat Absorption Laboratory Notebook, 1965  
3-4 Intestine: Hemoglobin/Acid Phosphatase, 1965 (1, 2 of 2)
- 51 1-3 JEM 100-C Exposure/Focus Tests, 1977 (1, 2, 3 of 3)
- 52 1 Kidney Cell Studies: EM Methods, 1973

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- 2-3 Kidney Cell Studies: Low Temperatures/ Drugs, 1975 (1, 2 of 3)
- 53 1 Kidney Cell Studies: Low Temperatures/Drugs, 1975 (3 of 3)  
2 Kidney Cell Studies: NRK Infected with HSV, 1974 – 1975  
3 Kidney Cell Studies: Virus Induced Surface Changes, 1973 (1 of 2)
- 54 1 Kidney Cell Studies: Virus Induced Surface Changes, 1973 (2 of 2)  
2 Kidney Cortex, 1957  
3 Lateral Line Studies: Frog, 1955  
4 Leukemia Studies, 1948  
5 Limulus Muscle, 1958  
6 Liver & Pancreas, 1956  
7 Liver Carcinogenesis, 1957 – 1959 (1 of 2)
- 55 1 Liver Carcinogenesis, 1957 – 1959 (2 of 2)  
2-3 Liver Cell Fine Structure (Palade), 1957 (1, 2 of 2)  
4-5 Liver Glycogen Studies: Fasted/Refed, 1958 (1, 2 of 6)
- 56 1-3 Liver Glycogen Studies: Fasted/Refed, 1958 (3, 4, 5 of 6)
- 57 1 Liver Glycogen Studies: Fasted/Refed, 1958 (6 of 6)  
2-4 Liver Glycogen Studies: Fasted/Refed, 1960 – 1961 (1, 2, 3 of 9)
- 58 1-4 Liver Glycogen Studies: Fasted/Refed, 1960 – 1961 (4, 5, 6, 7 of 9)
- 59 1-2 Liver Glycogen Studies: Fasted/Refed, 1960 – 1961 (8, 9 of 9)  
3 Liver Glycogen Studies: Fasted/Refed w. Casein, 1961  
4 Liver Glycogen Studies: Fasted/Refed w. Rice, 1961
- 60 1 Liver Glycogen Studies: Perfusion w. Adrenalin/Epinephrine/Cortisone/  
Phloridain, 1961 – 1962  
2-5 Liver Glycogen Studies: Perfusion w. Glucagon, 1960 – 1962 (1, 2, 3 of 6)
- 61 1-3 Liver Glycogen Studies: Perfusion w. Glucagon, 1960 – 1962 (4, 5, 6 of 6)  
4 Liver Glycogen Studies: Perfusion w. Glucagon, 1966
- 62 1 Liver Glycogen Studies: Perfusion w. Glucose/Sucrose/Diastase, 1961  
2-3 Liver Glycogen Studies: Perfusion w. Insulin/Glucose 230-240, 1961 (1, 2 of 2)
- 63 1 Liver Mesothelial Cells, 1954  
2 Liver Studies: Ascites Tumor Cells, 1962  
3 Liver Studies: Axolotl, 1961  
4 Liver Studies: Bat (Hibernating), 1962

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- 5-6 Liver Studies: Caulfield's Liver, 1957 (1, 2 of 2)  
7 Liver Studies: Chicken, 1962 (1 of 3)
- 64 1-2 Liver Studies: Chicken, 1962 (2, 3 of 3)  
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4 Liver Studies: Frog (Hibernating), 1961  
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**V. ELECTRON MICROGRAPHS**

(Micrograph files contain prints and some drawings. Most of the micrographs in this collection are filed with experiments; many others are included with manuscripts. A few are located within the correspondence, subject files, grants, reprints, and oversize folders.)

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4 Nucleolar Envelope (First Image), 1953  
5 Pancreas, 1962 – 1972 & n. d.  
6 Pituitary, 1966 – 1967  
7 Planaria, 1963 – 1964 & n. d.

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- 266 1-4 Porter, Selected Prints, 1945 – 1989 (1, 2, 3, 4 of 4)
- 267 1 Porter – Bonneville Atlas, 1962 – 1967 & n. d.  
2 Retina, 1963  
3 Root Tips: Onion, c. 1954 – 1957  
4-5 Root Tips: Onion/Garlic, 1959 – 1960 & n. d. (1, 2 of 2)
- 268 1-2 Sarcoma Cells (4337), 1953 – 1973 & n. d. (1, 2 of 2)  
3 “Science at Harvard,” 1967  
4 Sedar & Porter, “...Cortical Components of *Paramecium...*,” 1954  
5 Silveira: Flagella, Cilia, Microtubules, 1965 – 1967 & n. d.  
6 Skin, 1961 – c.1972 & n. d.  
7 Spinal Cord, 1962 – 1963
- 269 1 Spleen, 1962 – 1964  
2 Spread Cell Prep.s of Cell Fine Structures, n. d.  
3 Stomach, 1962 & n. d.  
4 Testis, 1958 – 1964  
5 3T3 Study (SEM), n. d.  
6 Thymus, 1967  
7 Thyroid, 1966  
8 Tilney, et al., “...Microtubules in *Heliozoa...*,” 1964 & n. d.  
9 Tissue Culture: Early Studies, 1945 – 1947  
10 “To Be Selected and Identified,” n. d.  
11 *Tokophrya infusionum* (SEM), 1971  
12 Tongue, 1965  
13 Trachea, 1962 – 1963  
14 Umbilicus, 1949
- 15 Various Cells/Tissues, 1953 – 1972 & n. d.  
16 Various Manuscript Figures: Microtubules/MTL, n. d.  
17 Virus (*Herpes simplex*), n. d.  
18 Warren & Porter, “...Molting Muscles of *Rhodnius prolixus*,” 1965 – 1968 & n. d.  
19 “Yamada Pictures,” 1956

**VI. RECORDED LECTURES**

(All are recorded on 7 inch reel to reel audio tapes, except for one on a 7 inch record disk. See also, section X. LECTURES (MANUSCRIPT).)

- 270 1 Record: “Levi Paper,” n. d.  
2 Tape 1: Porter, “The Origin of Tissues,” c. 1965

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- 3 Tape 2: Porter, "The Mitochondria," 1965; and Feder, "Chemistry of Cell Constituents," 1965
- 4 Tape 3: Feder, "Histochemistry...", c.1965 and Porter, "Methods of Cell Study Cont'd," 1965
- 5 Tape 4: Robertson, "Cell Parts and Their Function III," c.1965
- 6 Tape 5: Porter, "Cell Parts and Their Function I. The Interphase Nucleus...", c. 1965
- 7 Tape 6: Porter, "Microtubules," c. 1965; and Ornstein, "Perspectives in Quantitative Cytochemistry," c. 1966
- 
- 271 1 Tapes 7 & 7a: Porter, "Cytoplasmic Ground Substance," or "Kidney – Conclusion; Muscle – Beginning," 1965; and Fawcett, "Spermatogenesis," 1966
- 2 Tape 8?: Feder, "Chemistry of Cell Constituents," 1966; and Feder, "Histochemistry – Methods and Observations," 1966
- 3 Tape 9: Porter, "Cell Parts and Function I. Interphase Nucleus...", 1965; and Porter, "II. Cytoplasmic Membrane Systems – The ER," 1965
- 4 Tape 10: Porter, "Other Motility Mechanisms," or "Striated Muscle," 1965; and Porter, "Mitosis and Meiosis," 1966
- 5 Tape 11: Feder, "The Nerve Cell," 1965; and Robertson, "The Synapse – Electrical and Humoral," 1965
- 
- 272 1 Tape 12: Porter, "The Concept of Tissues – Major Types," 1965; Palade, "Cell Parts and Their Function IV – Ribosomes," 1965
- 2 Tape 13: Porter, "Review of Cell Structure...Fine Structure," 1965; O'Brien, "The Cell in Higher Plants, Introduction," 1965, or Porter, "Mitochondria – cont'd, Lysosomes, Ground Substance," 1965
- 3 Tape 14: O'Brien, "The Cell in Higher Plants – Introduction," 1965
- 4 Tape 15: Holowinsky, "The Chloroplast," 1965; O'Brien, "The Cell in Higher Plants," 1965
- 5 Tape 16: Porter, "Methods of Cell Study," 1965; Porter, "The Golgi Complex," 1965
- 6 Tape 17: Porter, "Intercellular Matrices in Animal Tissue," 1965
- 
- 273 1 Tape 18: Bowers, "Uptake Mechanisms of Cells and Active Transport," 1965
- 2 Tape 19: Porter, "Mechanism of Salt Balance and Salt Secretion," 1965
- 3 Tape 27: Porter, "Cell Growth; Differentiation" 1967
- 4 Tape 1'?: Porter, "Chromosome," 1967; Porter, "Mitosis," 1967
- 5 Tape 2': Porter, "The Interphase Nucleus," 1966; Teplitz, "PartII Nucleus,"

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- 1966
- 6 Tape 3': Porter, "Part III Nucleus," 1966; Sabatini, "IV Ribosomes," 1966
- 274 1 Tape 4': Porter, "E.R.," 1966; Porter, "End of E.R. – Golgi Complex," 1966  
2 Tape 5': McIntosh, "Membrane Structure," 1966; O'Brien, "The Plant Cell: An Introduction,"  
1966  
3 Tape 6': Hellebust, "The Algal Cells," 1966; Holowinsky, "The Chloroplast,"  
1966  
4 Tape 7': Porter, "The Mitochondria," 1966  
5 Tape 8': Porter, "Intercellular Matrices, 1966; Porter, "Salt Balance and Salt Secretion," 1966  
6 Tape 9': Porter, "Special Tissues: Blood and Mechanisms of Defence," 1966; Porter, "Uptake,"  
1966
- 275 1 Tape 10': Porter, "Muscle," 1966  
2 Tape 11': Porter, "Muscle" – cont'd, 1966; Porter, "Cilia," 1966  
3 Tape 12': Porter, "Cilia" – cont'd, 1966  
4 Tape 14'?: Porter, "Kidney," 1966; Porter, "Gut," 1966  
5 Tape: Horwitz Prize, c. 1970

**VII. FILMS**

- 276 1 "Aggregation of Dissociated Sponge Cells," n. d. (Humphrey)  
2 "Chromatophores," n. d. (Junqueira)  
3 "Feeding and Reproduction of *Echinospaerium nucleofilum*," n. d. (Tilney)  
4 "Fibre Systems in Cultured Cells...," n. d. (Buckley)
- 277 1 "HeLa in Mitosis," n. d. (Abramson)  
2 "Interference Microscope: "Study of Cells in Culture," n. d. (Rose)  
3 "Noyes: F1-4," n. d.  
4 "Pigment Migration," n. d. (Junqueira)
- 278 1 "Structure and Function of the Vestibular Apparatus," n. d.
- 279 1 "The Changing Pattern of Birefringence in *Physarium polycephalum*," 1964 (Nakajima & Allen)  
2 "*Tradescantia*," n. d.  
3 Unidentified, n. d.

**VIII. GRANTS**

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- 280     1     Angrist & Deane, "A Study...of the Endoplasmic Reticulum in...  
Endocrine...Cells," 1958 – 1959  
       2     Flickinger, "Origin and Relationships of Cellular Membranes," 1977  
       3     Griffith, "Photoelectron Imaging of Eucaryotic Cells," 1979 – 1987  
       4     Ham, "Cell Biology of Aging," 1973  
       5     Muscular Dystrophy Association: Applications, 1972 – 1973  
       6     Peachy, "Mid-Atlantic Regional IVEM Analysis Resource," 1984  
       7     Porter, "...Biogenesis and Organization of Collagen...", 1965
- 281     1-2    Porter, "...Cell Wall Formation in Plant Tissues," 1963 – 1966 (1, 2 of 2)  
       3     Porter, "High Resolution SEM," 1975 – 1980  
       4     Porter, "...Motive Force in Translocation of Cell Components," 1984  
       5     Porter, MTL and the Translocation of Organelles and Chromosomes, 1984  
       6     Porter, Muscular Dystrophy Account 461: Statements 1978 – 1980  
       7     Porter, Muscular Dystrophy Account 757: Purchase Orders, 1979 – 1981
- 282     1     Porter, Muscular Dystrophy Account 757: Statements, 1979 – 1983  
       2     Porter, Muscular Dystrophy Association: Reprints Used for Applications, 1963-  
1980  
       3     Porter, Muscular Dystrophy Ledger, 1978 – 1980  
       4     Porter, "...Structural Changes Induced in Normal Cell Lines...", 1973  
       5     Porter, Surface Morphology of Normal vs. Malignant Cells, c. 1971  
       6     Porter, "The Pigment Motility Mechanism in Chromatophores," 1980 – 1981  
       7     Porter & Bonneville, "A Study of Cell Surface Formation," 1970  
       8     Porter & Bruni, "Endoplasmic Reticulum in Normal and Malignant Cells," 1961 –  
1967  
       9     Porter et al., "Program Project in Basic Oncology," 1975 – 1976  
       10    Siegel, "Electron Microscopy," n. d.  
       11    Smith, "Structure, Development and Function of Striated Muscle," 1962

**IX.     REPRINTS**

(Reprints are arranged alphabetically by author, according to Porter's system.)

- 283           Abbott – Altenburg
- 284           Altmann – Andres
- 285           Andresen – Badenhuizen

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- 286 Bader – Bayer
- 287 Beams – Bennett
- 288 Bensley – Birbeck
- 289 Birns – Borisy
- 290 Bornstein – Brattgård
- 291 Braun – Brown
- 292 Brumbaugh – Burton
- 293 Burwen – Carasso
- 294 Cardell - Chang
- 295 Chan-Palay – Clarkson
- 296 Claude – Colwin
- 297 Coman – Coss
- 298 Cosslett – Cuypers
- 299 Dabbous – Dass
- 300 Dauwalder – De Brebander
- 301 De Bruijn – De Robertis
- 302 DeRosier – Dunn
- 303 Dunning – Ebashi
- 304 Ebert – Engelman
- 305 Engström – Familiari
- 306 Fankhauser – Favard

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307 Favard-Séréno – Fawcett

308 Febvre – Fleming

309 Fletcher – Furukawa

310 Gabie – Gershman

311 Geschwind – Goldie

312 Goldman – Gras

313 Grassé – Gropp

314 Gross – Hall

315 Halliday – Hartmann

316 Harvey – Henley

317 Hepler – Hodge

318 Hodgkin – Hooper

319 Hopkins – Izquierdo

320 Jackson – Kallman

321 Kalnins – Kawakami

322 Kawamura – Kessel

323 Keynes – Klug

324 Knaysi – Kwiatkowska

325 Lacassagne – Legg

326 Lehmann – Levine

327 Levinthal – Love

328 Lovett – Manna

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- 329 Manni – Marshak
- 330 Marshall – McMaster
- 331 McNamara – Miki-Noumura
- 332 Miller – Moore
- 333 Mooseker – Mota
- 334 Motta – Nagano
- 335 Nagata – Noll
- 336 Nolte – Nys
- 337 Oakley – Pake
- 338 Palade – Pappenheimer
- 339 Parchman – Peters
- 340 Peterson – Pomerat
- 341 Ponder – Randell
- 342 Ranish – Renda
- 343 Renger – Robbins
- 344 Robblee – Rosan
- 345 Rose – Royle
- 346 Rubin – Ryter
- 347 Sabatini – Schmid
- 348 Schmidt – Schubert
- 349 Schubiger – Seto

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- 350 Setterfield – Sizer
- 351 Sjöstrand – Somlyo
- 352 Sonneborn – Stein
- 353 Steinberg – Swanbeck
- 354 Swann – Tanaka
- 355 Tannenbaum – Ting
- 356 Tittler – Twitty
- 357 Tyler – Varela
- 358 Vasiliev – Waterman
- 359 Watkins – Weiss
- 360 Weissenfels – Wikswo
- 361 Wilde – Wolff
- 362 Wolken – Wuthier
- 363 Wyckoff – Yerkes
- 364 Yokota – Zworykin

**X. LECTURES (MANUSCRIPT)**  
(See also section **VI. RECORDED LECTURES.**)

- 365 1 Basal Laminae, c. 1977  
2 Biology of Aging, n. d.  
3 Cell Cortex, n. d.  
4 Cytology (University of Nebraska), n. d.  
5 Cytology Course (Harvard University), 1961  
6-7 Cytoplasmic Ground Substance – esp. MTL, 1978 – 1983 (1, 2 of 2)
- 366 1 Electron Microscope Society of America Congress (Philadelphia), 1962  
2 Electron Microscope Study of Liver Cancer, 1958 – 1960  
3 Electron Microscopy and Cell Fine Structure, 1947

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- 4 Electron Microscopy of Cell Fine Structure, n. d.  
5 “Electron Microscopy of...Liver Carcinogenesis...” (Cancer Symposium – Pisa),  
1959  
6 “Electron Microscopy of ‘Living Cells’ ” (Royal Microscopical Society of  
London), 1962 – 1963  
7 “Electron Microscopy of Tissue Cells,” 1954 – 1955  
8 Endoplasmic Reticulum, 1954 – 1955  
9 “Endoplasmic Reticulum and...Its Functions” (Warren Triennial Prize), 1961 –  
1962
- 367 1 Endoplasmic Reticulum/Cell Fine Structure, 1952 – 1953  
2 Endoplasmic Reticulum, Cell Growth and Differentiation (Terry Lecture), n. d.  
3 Endoplasmic Reticulum in Plant Cells, 1959 – 1960  
4 “Exploring Cell Fine Structure” (Edsel B. Ford Memorial Lecture), 1963  
5 Fine Structure of Cancer Cells, c. 1971 – 1973  
6 Fine Structure of Cells, 1954 – 1955 & n. d.  
7 Fine Structure of Cells, c. 1968 – 1970  
8 Fine Structure of Connective Tissues, 1962 – 1964
- 368 1 Fine Structure of Tissue Cells Grown in Culture (N.Y. Academy of Sciences),  
1951  
2 Graduation Address, c. 1982  
3 “Harvard Lectures” (at Yale), 1963 – 1964  
4 History of Electron Microscopy/Cell Biology, c. 1978 – 1979  
5 HVEM, c. 1974 – 1981  
6 “Membrane-limited Systems of the Cytoplasm...,” n. d.  
7 Microtomy, n. d.  
8 Microtubules, 1964 – 1965  
9 Microtubules/Form Determination in Cells, 1976 – 1977 & n. d.
- 369 1 Microtubules in Cell Form and Organization, 1964 – 1965  
2 “Microtubule Talks,” c. 1965 – 1967  
3 Motility in Cells, n. d.  
4 Muscle Cell Fine Structure, 1958  
5 Muscle, c. 1965  
6 Myotendon Junction, n. d.  
7 “Observations on the Fine Structure of the Cytoplasm,” 1954 – 1955  
8 Plant Cells, n. d.  
9 SEM Visualization of Cell Binding Sites, n. d.  
10 “...Submicroscopic Structure of Cells” (Royal Canadian Institute), 1962 – 1963
- 370 1 Techniques of Electron Microscopy – esp. HVEM and SEM, 1972 – 1982  
2 “The Golden Age of Biology...,” c. 1978

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- 3 "The Value Commitments of the Scientist," 1984
- 4 Tissue Culture Course (Cooperstown), 1952 – 1953
- 5 Topography of Cells – Malignant vs. Normal, 1973 – 1975 & n. d.
- 6 "Ultrastructural Criteria of Cytodifferentiation" (Growth Symposium), 1962
- 7 Ultrathin Sectioning for Electron Microscopy (N.Y. Academy of Sciences), 1954

**XI. OVERSIZE**

**OVSZ**

**FD**

- 1 1 Various Electron Micrographs, 1961 – 1972 & n. d.
- 2 2 Various Mounted Electron Micrographs, 1961 – 1972 & n. d.
- 3 3 Drawings/Diagrams/Posters, c. 1968 – 1982 & n. d.
  
- 2 Histology Slides (8 sets), n. d.
  
- 3 Film. "American Enterprise: Innovation," n. d.
  
- 4 Film. "Human Kidney," n.d.