

Juda Quastel fonds

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University of British Columbia Archives



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Table of Contents

- **Fonds Description**
 - Title / Dates of Creation / Physical Description
 - Biographical Sketch
 - Scope and Content
 - Notes

- **Series Descriptions**
 - Biographical Information series.
 - Quastel Project sub-series.
 - Correspondence series.
 - Presentations and Lectures series.
 - Hospitals series.
 - Cardiff sub-series.
 - Montreal General Hospital sub-series.
 - Research, Notes and Data series.
 - Grants sub-series.
 - Bound lab notes sub-series.
 - Multiple Sclerosis sub-series.
 - Metabolic Inhibitors sub-series.
 - Published and Unpublished Material series.
 - Unpublished Material sub-series.
 - Published Material sub-series.
 - Reports sub-series.
 - Photographs series.
 - Slides series.
 - Glass plates series.
 - Audio Visual series.

- **File List**

- **Catalogue entry** (UBC Library catalogue)

Fonds Description

Juda Quastel fonds. – 1917-1987.

4.9 m of textual records and other material.

Biographical Sketch

Juda Quastel is remembered for his important scientific research contributions in cancer, soil metabolism, cell metabolism, and neurochemistry. Born in Sheffield, Yorkshire, England in 1899, Quastel began his successful career in the life sciences as a lab assistant at the St. George's Hospital for the British Army from 1917-1919. Quastel studied chemistry at Imperial College London and pursued graduate work at Cambridge University. He received a PhD in biochemistry in 1924 followed by a doctorate of science in 1926; additionally, by 1930 Quastel became the Director of Research at Cardiff City Mental Hospital and began to research the metabolism and enzymology of the brain. In 1941 the Agricultural Research Council contacted Quastel to research crop yields because of the deficiencies of food supplies. In 1947, Quastel became Assistant Director of McGill University-Montreal General Hospital Research Institute and professor and then the director of the institute in 1948 while supervising 70 PhD candidates. Quastel, although retired, came to UBC in 1966 to become a professor in neurochemistry in the Department of Psychiatry.

Over his career, significant honors for Quastel included earning an honorary doctorate of science from McGill University in 1969, receiving the Companionship of the Order of Canada and an honorary doctorate at the Hebrew University in Jerusalem in 1970, as well as becoming an honorary Fellow of the Royal Society of Edinburgh in 1983. Quastel was widowed by the death of his first wife Henrietta Quastel in 1973, and he himself passed away in 1987 leaving behind a second wife Susan Ricardo, three children Michael, David, Barbara, and eleven grandchildren.

Scope and Content

The fonds consists of records documenting Juda Quastel's activities as a scientist from 1917 to 1987. Series include biographical information; correspondence; presentations and lectures; scientific research, notes, and data; written reports, published and unpublished materials; photographs, slides, glass plates, and audiovisual material. Collectively, these records reflect Quastel's various scientific roles as researcher, professor, author, and public speaker. Some records (i.e. particular correspondence and photographs) also reveal Quastel's personal life as husband and father.

Notes

File list available.

Includes: 137 photographs, 1 videotape, 430 slides, and 3 books.

Title based on the content of the fonds.

Related records may be found in the [Stephen Straker fonds](#). Straker, an interdisciplinary professor in the UBC History Department, culled together various personal interviews with Quastel, some of Quastel's personal papers, and articles by and in honor of Quastel for a potential book that was never completed.

One accrual (Box 23) was donated by Susan Quastel in 2005.

Series Descriptions

Biographical Information series. – 1918-1987.

47 cm of textual material.

Series consists of CV's, biographical sketches, awards, certificates, copies of Quastel's will, as well as, Quastel's day books. This series contains one sub-series: Quastel Project.

Boxes: 1 (1-8), 2-4, 23 (1-4).

Quastel Project sub-series. – 1918-1985.

10 cm of textual material.

Sub-series consists of Stephen Straker and Edward Levy collection of biographic material pertaining to the life of Juda Quastel. The name and order of the files reflect both the chapter titles and arrangement for the Quastel biography.

Box: 1 (9-16).

Correspondence series. – 1921, 1929, 1936, 1940-1987.

52 cm of textual material.

Series consists of personal and professional correspondence to and from Quastel, which have generally been subdivided by decade or specifically by year from 1950-1969.

Boxes: 4-5, 23(5-12).

Presentations and Lectures series. – 1947-1977.

7 cm of textual material.

Series consists of lecture notes, conference papers and presentations created by Quastel. Many of the topics are similar to those seen in the publication series.

Box: 6 (1-17).

Hospitals series. – 1930-1977.

21 cm of textual material.

2 b&w photographs.

Series contains various reports, correspondence, and research from Quastel's stay in Cardiff and Montreal. This series contains two sub-series: Cardiff and Montreal General Hospital.

Box: 6 (18-39), 23(13).

Cardiff sub-series. – 1930-1947.

15cm of textual material.

2 b&w photographs.

Sub-series consists of minutes and reports from committees and commissions that Quastel sat on, as well as correspondence and research projects conducted in and from Cardiff and the Cardiff City Mental Hospital.

Montreal General Hospital sub-series. – 1947-1977.

5 cm of textual material.

Sub-series consists of annual reports, correspondence, general administration, joint committee reports, and listings of post-doctoral research fellows during Quastel's time as a director and researcher at the Montreal General Hospital.

Research, Notes and Data series. – 1936-1985.

33 cm of textual material.

Series consists of hand written notes, published articles, drafts of essays, and scientific data (such as lab material) relating to various scientific research conducted by Quastel. This series contains three sub-series: 1) Grants, 2) Multiple Sclerosis, and 3) Metabolic Inhibitors.

Boxes: 7-14.

Grants sub-series. – 1948-1979.

17 cm of textual material.

Sub-series consists of various grant application materials made out to Foundations, Boards, and Departments requesting funds to conduct scientific research. The materials include applications, funding and financial information, correspondence, research proposals and reports.

Box: 8 (26-39).

Bound lab notes sub-series. – 1917 - 1945.

1.05 m of textual material.

Sub-series consists of various bound lab notes throughout Quastel's career.

Boxes: 9-13.

Multiple Sclerosis sub-series. – 1955-1967.

7 cm of textual material.

Sub-series consists of articles, notes, grant material, reports, and correspondence related to multiple sclerosis and the Multiple Sclerosis Society of Canada. There may also be related correspondence found in the Correspondence Series through 1958-1961.

Box: 14 (1-19).

Metabolic Inhibitors sub-series. – 1958-1971.

6 cm of textual material.

Sub-series consists of correspondence, notes, and drafts of reports relating to the written piece "Metabolic Inhibitors".

Box: 15 (20-26).

Published and Unpublished Material series. – 1924-1984.

1.09 m of textual material.

1 photograph.

3 books.

Series consists of three sub-series: unpublished materials, published materials, and reports.

Boxes: 15-18, 23(19).

Unpublished material sub-series. – 1950-1980.

37 cm of textual material.

Sub-series consists of various drafts of (potential) papers, each of which are individually filed by article title. This series is also related to Quastel's thesis, Quastel's publication lists, and correspondence relating to Quastel's publications.

Box: 15 (6-48).

Published Material sub-series. – 1923-1984.

39 cm of textual material.

Sub-series consists of materials such as published articles by Quastel, lists of publications by Quastel, book reviews, as well as, information and correspondence related to future book proposals and publications such as "Chemical Control of Cell Metabolism and Function" and "Neurochemistry".

Boxes: 15 (49), 16-17, 23(19).

Reports sub-series. – 1939-1968.

33 cm of textual material.

Sub-series consists of numerous typed reports, some of which are in the editing process. The reports are filed according to its title.

Box: 18.

Photographs series. – 1917-1987.

79 photographs.

Series consists of photographs of Juda Quastel with colleagues from Cardiff, England, and the Montreal General Hospital laboratory, his 1966 visit to India and Jerusalem, as well as photographs of his family. They are catalogued as part of the University Archives photograph holdings under UBC 118.1.

Slides series. – 1975, [n.d.].

430 slides.

Series consists of 430 scientific slides (i.e. charts, equations, and graphs) possibly for lecturing purposes as well as some photographs.

Box: 19.

Glass plates series. – [n.d.].

322 glass plates.

Series consists of 322 glass plates (i.e. charts, equations, and graphs) possibly for lecturing purposes.

Boxes: 20-22.

Audio/Visual series. – 1983.

1 video cassette tape.

Series consist of one VHS tape interview of Juda Quastel in conversation with H.F. Bradford that was produced by the UK Biochemical Society.

File List

BOX 1

Biographical Information series.

- 1-1 Miscellaneous awards. ca. 1924-1977
- 1-2 Biographical ephemera. 1933, 1936, 1940, 1975
- 1-3 Juda Quastel's Last Will and Testament. ca. 1948-1987
- 1-4 Newspaper articles. 1955
- 1-5 Order of Canada award. 1970
- 1-6 Quastel's Biography. 1970, 1987-1988
- 1-7 Quastel's CVs and resumes. [n.d.]
- 1-8 Scientific contributions. [n.d.]

Quastel Project sub-series.

- 1-9 Quastel Project proposal. 1982, 1985
- 1-10 The Army. 1918-1919
- 1-11 Imperial College. 1919-1921
- 1-12 Cambridge Years. 1921-1929
- 1-13 Rockefeller Archive. 1940-1944
- 1-14 Rothamsted. 1941-1947
- 1-15/16 The Montreal Years. 1947-1967 (2 files)

BOX 2

- 2-1 Day Books. 1921, 1925-1926, 1928-1929, 1932
- 2-2 Day Books. 1933, 1934, 1935
- 2-3 Day Books. 1938, 1939, 1941, 1941-1942
- 2-4 Day Books. 1942, 1943, 1944, 1944-1945
- 2-5 Day Books. 1945, 1947, 1948, 1949
- 2-6 Day Books. 1950, 1951, 1952
- 2-7 Day Books. 1953, 1954, 1955
- 2-8 Day Books. 1956, 1957, 1958
- 2-9 Day Books. 1959, 1960, 1961
- 2-10 Day Books. 1962, 1962-1963, 1963

BOX 3

- 3-1 Day Books. 1964, 1965, 1966
- 3-2 Day Books. 1967, 1968, 1969
- 3-3 Day Books. 1970, 1971, 1972
- 3-4 Day Books. 1973, 1974, 1975
- 3-5 Day Books. 1976, 1977, 1978
- 3-6 Day Books. 1979, 1980, 1981
- 3-7 Day Books. 1982, 1983, 1984
- 3-8 Day Books. 1985, 1986, 1987

(continued)

BOX 4

Correspondence series.

- 4-1 1920s correspondence.
- 4-2 1930s correspondence.
- 4-3 1940s correspondence.
- 4-4 1950 correspondence.
- 4-5 1951 correspondence.
- 4-6 1952 correspondence.
- 4-7 1953 correspondence.
- 4-8 1954 correspondence.
- 4-9 1955 correspondence.
- 4-10 1956 correspondence.
- 4-11 1957 correspondence.
- 4-12 1958 correspondence.
- 4-13/14 1959 correspondence.
- 4-15/18 1960 correspondence.
- 4-19/21 1961 correspondence.
- 4-22/24 1962 correspondence.
- 4-25/26 1963 correspondence.
- 4-27 1964 correspondence.
- 4-28 1965 correspondence.
- 4-29 1966 correspondence.
- 4-30 1967 correspondence.
- 4-31 1968 correspondence.

4-32 1969 correspondence.

BOX 5

- 5-1 1970s correspondence. 1970-1979
- 5-2 1980s correspondence. 1980-1989
- 5-3 The Royal Society. 1940
- 5-4 Hoffman-La Roche Inc. 1948-1952
- 5-5 National Research Council (US). 1950, 1956-1958
- 5-6 Merck & Company. 1953, 1956-1957
- 5-7 Rockefeller Foundation. 1953, 1956-1960
- 5-8 Ghosh. 1955
- 5-9 Ford Foundation. 1956
- 5-10 Angelo Castelli. 1961
- 5-11 India Visit. 1965-1966
- 5-12 UBC. 1966-1967
- 5-13 University of Bombay, India. 1967
- 5-14 Tyhurst, Woolf (the Dean). 1969-1970
- 5-15 Gairdner Foundation. 1974
- 5-16 K. Okamoto (research partner). 1977
- 5-17 Stephen Straker. 1984

(continued)

BOX 6

Presentations and Lectures series.

- 6-1 Miscellaneous speeches/lectures. 1940, 1947, 1955, 1965
- 6-2/3 Lecture notes Biochemistry (cancer). 1951, [n.d.]
- 6-4 Conference paper "Metabolic aspects of cerebral dysfunction and mental disturbance". 1959
- 6-5 McGill biochemistry lectures /McGill University. 1959
- 6-6 Conference paper "Effects of alcohols on brain metabolism". 1964
- 6-7 Lecture on "Structure and Function of Heart Muscle". 1964
- 6-8 Lecture "Chemical control of cell metabolism and function". 1965
- 6-9 Lecture notes from Department of Biochemistry at UBC. 1965-1966
- 6-10 Miscellaneous lecture notes. 1966
- 6-11 Lecture notes on "Brain Nutrition and Brian Function". 1972

- 6-12 Conference paper "Molecular mechanisms of anesthesia". 1974
- 6-13 Gairdner Foundation lecture. 1974
- 6-14 Conference paper "Source of the acetyl group in acetylcholine". 1977
- 6-15 Jerusalem lectures. 1977
- 6-16 Canadian Cancer Society address. [n.d.]
- 6-17 Presentation "Soil Metabolism in Relation to Plant Nutrition". [n.d.]

Hospitals series.

Cardiff sub-series.

- 6-18 Biochemical investigations in Cardiff City Mental Hospital. 1930-1940
- 6-19 Miscellaneous correspondence. 1938-1940
- 6-20 Rockefeller Foundation correspondence. 1941-1943
- 6-21 Special projects - Unit of Soil Enzyme Chemistry. 1941-1944
- 6-22 Agriculture Research Council correspondence. 1942
- 6-23 Medical Research Council correspondence. 1942
- 6-24 Chemistry Board Biochemical sub-committee minutes. 1942-1945
- 6-25 Aging research. 1942-1947
- 6-26 Fieldwork at Rothamstead Experimental Station. 1943-1946
- 6-27 Friends of the Hebrew University. 1943-1947
- 6-28 Weed Control research. 1944-1945
- 6-29 Forestry Commission. 1945-1947
- 6-30 Agricultural Improvement Council. 1946

Montreal General Hospital sub-series.

- 6-31 Montreal General Hospital Research Institute. 1947-1965
- 6-32 Joint Committee for the study of Montreal General Hospital Institute. 1954
- 6-33 Montreal General Hospital, A.H. Westbury. 1954
- 6-34 Montreal General Hospital, General administration. 1954
- 6-35/36 Montreal General Hospital annual reports. 1950-1965
- 6-37 McGill Annual Report. 1959-1964
- 6-38 Montreal General Hospital. 1965-1977
- 6-39 Post-doctoral research fellows. [n.d.]

(continued)

BOX 7

Research, Notes and Data series.

The following research, notes, and data consists of loose papers.

- 7-1 Tintometer. 1936
- 7-2 Research problems. 1948-1953
- 7-3 Laboratory equipment (Charles Harpley). 1948-1954
- 7-4 Atomic Energy Department. 1949-1950
- 7-5 National Research Council. 1949-1953
- 7-6 Laboratory supplies & animals. 1950-1954
- 7-7 Sugar Research Foundation, correspondence. 1950-1959
- 7-8 National Institute of Health, US. 1951-1953
- 7-9 Monsanto Chemical Company. 1952, 1957
- 7-10 Lilly Research Laboratories. 1955-1960
- 7-11 Glucosamine. 1953-1954
- 7-12 Data on cortisone-protein. 1953
- 7-13 Foundations Fund for Research in Psychiatry. 1953-1957
- 5-14 ARC (2:4D) research. 1954
- 7-15 Drugs, venom. 1954
- 7-16 Methods in Enzymology. 1954
- 7-17 Shock Research (Research & Development Division Department of the Army). 1954-1957.
- 7-18 Sugar Research Foundation, quarterly reports. 1954-1959 (2 files)
- 7-19 Uptake measurements. 1956
- 7-20 Data on glycine & potassium ions as respiratory stimulants. 1957
- 7-21 McGill Research Fund. 1957
- 7-22 Lederie Laboratories division. 1957-1958
- 7-23 Institute Analgesic Sedative Drugs. 1958-1960
- 7-24 Banting Research Foundation. 1958-1961
- 7-25 Canada Packers Limited. 1959
- 7-26 National Institute of Neurological Diseases. 1959-1964
- 7-27 NATO. 1959-1967
- 7-28 Geigy Ltd. Pharmaceuticals. 1961
- 7-29 National Science Foundation. 1961-1962
- 7-30 Canadian Heart Foundation. 1963
- 7-31 Effects of VLB on stimulated glucose oxidation (research notes). 1964
- 7-32 Miscellaneous research notes and data. 1966
- 7-33 Biochemical aspects of the cancer cell (research notes). 1966

- 7-34 Alcohol research. 1967-1970
- 7-35 Effects on L-Glutamate in rat brain cortex slices (research notes). 1971
- 7-36 Effects of Protoveratrine on Oxygen uptake in rat brain cortex slices (research notes). 1971
- 7-37 Research on neurochemical & electrophysiological on cortex slices of guinea pigs. 1972-1973

BOX 8

- 8-1 Medical research council MT-65. 1979
- 8-2 Functional Role of Cerebral Phospholipases. 1980
- 8-3 Research proposal, 2FDG Technique. 1983
- 8-4 Galautural metabolism (research notes). 1985
- 8-5 Ethanol C-14 Metabolism (research notes). [n.d.]
- 8-6 Salicylate (research notes). [n.d.]
- 8-7 Chemotherapy (research notes). [n.d.]
- 8-8 Data from effects of water uptake in rat brain cortex slices. [n.d.]
- 8-9 Uptake and release of exogenous radioactive acetylcholine (research notes). [n.d.]
- 8-10 Early days in Neurochemistry (notes). [n.d.]
- 8-11 Invitro uptake of ACL (research notes). [n.d.]
- 8-12 Data on ATP levels in brain cortex slices. [n.d.]
- 8-13 Data on radioactive injections. [n.d.]
- 8-14 VSPH (research notes). [n.d.]
- 8-15/16 Measurements in rat brain cortex. [n.d.]
- 8-17 Thudicum & neurochemistry (research notes). [n.d.]
- 8-18 Measurements of ACL uptake and glucose. [n.d.]
- 8-19 Data on protoveratrine, tetrodoxine & lidocaine from rat brain cortex slices. [n.d.]
- 8-20 Research bibliography. [n.d.]
- 8-21 Enzymes (notes). [n.d.]
- 8-22 Rat amino (flourate) data. [n.d.]
- 8-23/24 Miscellaneous research notes. [n.d.]
- 8-25 Propendin research (Defense Research Board). 1955

Grants sub-series.

- 8-26/27 National Cancer Institute of Canada (grant). 1948-1960
- 8-28/29 National Research Council grants. 1950-1965
- 8-30 Damon Runyon Foundation (grant). 1953-1954

- 8-31 American Heart Association (grant). 1953-1954
- 8-32/33 Department of National Defense (grants). 1956-1959
- 8-34 Research Agreements. 1961
- 8-35 Department of Health, Education and Welfare (grant). 1964
- 8-36/37 Medical Research Council (grant). 1965-1971
- 8-38 MRC - Transport processes at the brain cell membrane. 1969
- 8-39 Grant application data. 1979

BOX 9

Bound lab notes sub-series.

These bound lab notes may also be referred to as log books.

- 9-1 "Barcroft" I, II May 26-September 30. 1930
- 9-2 "Barcroft" III, IV September 30-March 16. 1930-1931
- 9-3 "Barcroft" V, VI March 19-November 9. 1931
- 9-4 "Barcroft" VII, VIII November 10-April 29. 1932
- 9-5 "Barcroft" IX, X May 13-October 31. 1932
- 9-6 "Barcroft" XI, XII October 24-August 8. 1932-1933
- 9-7 "Barcroft" XIII, XIV August 9-May 9. 1933-1934
- 9-8 "Barcroft" XV, XVI April-December 12. 1934

BOX 10

- 10-1 "Barcroft" XVII, XVIII December 13-January 12. 1934-1936
- 10-2 "Warburg" XIX, XX January 23-February 10. 1936-1937
- 10-8 "Warburg" XXI, XXII February 11-March. 1937-1938
- 10-9 "Warburg" XXIII, XXIV March 24-July 6. 1938-1939
- 10-10 Books XXV, XXVI July 17-January 3. 1939-1941
- 10-11 Book XXIII (b), August 18 1938-December 15 1938; "Warburg" XX August 4 1936-August 18 1936. 1938-1939

BOX 11

- 11-1/2 Class notes. 1917 (2 files)
- 11-3 Lab notes. 1920, 1922
- 11-4 Lab notes. 1920-1935
- 11-5 Lab notes. 1922, 1925
- 11-6 Lab notes. 1926, 1927

- 11-7 Lab notes. 1928
- 11-8 Lab notes. [1930]
- 11-9 Lab notes. 1941, 1946

BOX 12

The following box contains oversized bound lab notes.

- 12-1 Lab notes, Brain Oxidations. 1928
- 12-2 Lab notes, Blood Sugars. 1929-1930
- 12-3/4 Lab notes, Sugar Tolerances. 1929-1930
- 12-5 Lab notes. 1929-1930
- 12-6 Lab notes. 1929-1933
- 12-7 Lab notes. 1930
- 12-8 Lab notes. 1931-1937
- 12-9 Lab notes, Brain. 1934
- 12-10 Lab notes, Bacterial Activations. 1934
- 12-11 Lab notes. 1935-1939
- 12-12 Lab notes, Chemical Warfare. 1940
- 12-13/14 Lab notes, Fumeric Acid Activations. [n.d.] (2 files)
- 12-15 Lab notes, Reduction Potential. [n.d.]
- 12-16 Lab notes, Elementary Enzymology. [n.d.]

BOX 13

The following box contains oversized bound lab notes.

- 13-1 Lab notes, pH Activity Curves. [n.d.]
- 13-2 Lab notes, Liver Oxidations. [n.d.]
- 13-3/6 Lab notes. [n.d.]

The following lab notes were recorded by Quastel's colleagues and students.

- 13-7 Lab notes, Caecilia E.M. Pugh. 1935
- 13-8 Lab notes, Caecilia E.M. Pugh. 1936
- 13-9 Lab notes, Caecilia E.M. Pugh. 1937
- 13-10 Lab notes, G.H. [Culvenski]. 1939
- 13-11 Lab notes, G.M. Ellinger. 1944-1945
- 13-12 Lab notes, T.J.R. Macara. [n.d.]
- 13-13 Lab notes, Sylvia Van Straten. [n.d.]

BOX 14

Multiple Sclerosis sub-series.

- 14-1 Multiple Sclerosis. 1955
- 14-2 Multiple Sclerosis. 1955
- 14-3 Multiple Sclerosis. 1955
- 14-4 Multiple Sclerosis. 1956
- 14-5 Multiple Sclerosis. 1957
- 14-6 Multiple Sclerosis. 1958
- 14-7 Multiple Sclerosis. 1959
- 14-8 Multiple Sclerosis. 1960
- 14-9 Multiple Sclerosis. 1961
- 14-10 Multiple Sclerosis. 1962
- 14-11 Multiple Sclerosis. 1963
- 14-12 Multiple Sclerosis. 1964
- 14-13 Multiple Sclerosis. 1965
- 14-14 Multiple Sclerosis. 1966
- 14-15 Multiple Sclerosis. 1967
- 14-16 Articles (MS). 1955, 1959-1967
- 14-17 Reports to the Multiple Sclerosis Society of Canada. 1957-1963
- 14-18 Grants (MS). 1961-[1965]
- 14-19 Notes. [n.d.]

Metabolic Inhibitors sub-series.

- 14-20 Metabolic Inhibitors. 1958
- 14-21 Metabolic Inhibitors. 1959
- 14-22 Metabolic Inhibitors. 1960
- 14-23 Metabolic Inhibitors. 1961
- 14-24 Metabolic Inhibitors drafts and notes. [1958-1961]
- 14-25 Metabolic Inhibitors, the book. 1967, 1971
- 14-26 Metabolic inhibitors manuscripts. [n.d.]

BOX 15

Published and Unpublished series.

- 15-1 Quastel's thesis and publication lists. 1927, 1932-1972

The following files consist of correspondence relating to Quastel's publications.

- 15-2 Publications of papers and articles. 1951-1953
- 15-3 Book reviews. 1958-1962
- 15-4 Neurochemistry, the book. 1959-1962
- 15-5 J & A Churchill Publishing Co. 1949, 1953-1956

Unpublished sub-series.

- 15-6 "Biochemical basis of narcosis" (draft). 1950
- 15-7 "The mechanism of hydroperoxidase action" (paper). 1950
- 15-8 "The role of enzymes systems in behavior" (paper). 1952
- 15-9 "The action of drugs on enzyme systems" and Microbial Biochemistry and its Development" (paper). 1959
- 15-10 "Drug action and tissue metabolism" (paper). 1963
- 15-11 "Molecular transport at cell membranes" (paper and draft). 1963
- 15-12 "Effects of alcohols on brain metabolism" (paper). 1965
- 15-13 "Effects of colchicines on nucleic acid metabolism during metamorphosis of Tenebrio molitor L and in some mammalian tissues" (draft) 1965-1966
- 15-14 "Metabolism of glycine and other amino acids in rat brain slices" (draft). 1965-1967
- 15-15 "Uptake of thiamine in normal tissues and neoplasms" (draft). 1966
- 15-16 "Inhibitory effects of ammonium ions and some amino acids on stimulated brain respiration and cerebral amino acid transport" (draft). 1967
- 15-17 Hebrew University Papers (paper). 1968
- 15-18 "Fifty year ago: beginning of modern neurochemistry" (draft). 1980

The following undated files have been filed alphabetically by title.

- 15-19 "Amino acid metabolism in the central nervous system" (draft). [n.d.]
- 15-20 "The biological activities of alkyl-mercapto fatty acids" (draft). [n.d.]
- 15-21 "Carbohydrate metabolism in the central nervous system" (paper). [n.d.]
- 15-22 "Chemical approach to the problems of diseases" (draft). [n.d.]
- 15-23 "Cortisone-Globulin Interactions" (draft). [n.d.]
- 15-24 "Effect of cortisone administration on the serum properdin system of rats" (draft). [n.d.]
- 15-25 "Effect of drugs on acetylcholine uptake in rat cortical slices" (draft). [n.d.]
- 15-26 "Effect of heated venom on the rat spinal cord" (draft). [n.d.]

- 15-27 "Effect of phenylpruvic acid on the biosynthesis of RHA in new-born rat brain" (draft). [n.d.]
- 15-28 "Effects of aliphatic alcohols on tissue metabolism" (draft). [n.d.]
- 15-29 "Effects of anaesthetics, depressants and tranquilizers on cerebral metabolism" (draft). [n.d.]
- 15-30 "Effects of colchicine on nucleic and metabolism during metamorphosis" (draft). [n.d.]
- 15-31 "Effects of L- & D- Glutamate in brain slice of rats" (draft). [n.d.]
- 15-32 "Effects of morphine & malorphine on the incorporation of p32" (draft). [n.d.]
- 15-33 "Effects of neurotropic drugs on brain metabolism in vitro" (paper). [n.d.]
- 15-34 "Effects of tetramethylammonium chloride, pyridine and pyrimidine on oxygen uptake and glycine transport by rat brain cortex slices" (draft). [n.d.]
- 15-35 "Evolution of biochemistry" (draft). [n.d.]
- 15-36 "Incorporation of amino acids into chick proteins during embryonic growth" (draft). [n.d.]
- 15-37 "The influence of amino sugars on the glycolysis of brain & tumor tissue extracts" (draft). [n.d.]
- 15-38 "Intracellular metabolism of carbohydrates by the guinea pig intestine and the production of amino acids". (draft) [n.d.]
- 15-39 "Paper chromatography of plasma proteins in cancer" (draft). [n.d.]
- 15-40 "Preface and introduction" (draft). [n.d.]
- 15-41 "Soil Metabolism" (paper). [n.d.]
- 15-42 "Some biochemical aspects of abnormal mental states" (paper). [n.d.]
- 15-43 "Studies on factors affecting the activity of an E. coli phosphates" (draft). [n.d.]
- 15-44 "Toxic Effects of Oxygen and of Hydrogen Peroxide on Brain Metabolism" (draft). [n.d.]
- 15-45 "Transport and metabolism of acetate in rat brain cortex in vitro" (paper) [n.d.]
- 15-46 "Tumor metabolism of nucleic and precursors and effects of coechical" (draft). [n.d.]
- 15-47 "The search for a cure for cancer" (draft). [n.d.]
- 15-48 "Volume IV: Enzymes in the nervous system" (draft). [n.d.]

Published sub-series.

- 15-49 Brighter Biochemistry journals. 1923-1931

BOX 16

Box 16 and 17 Series consist of ten bound volumes containing copies of article off-prints by J. H. Quastel.

16-1

J.H.Q. 1928-1933.

1. Quelques Travaux Recents Sur Les Actions Chimiques Des Bacteries, Leur Relation Avec Les Problemes De Fermentation. 1928
 2. The Study of "Resting" or Non-Proliferating Bacteria. 1928
 3. L'etude des Bacteries Non-Proliferantes. 1928
 4. Ruhende Bakterien. 1928
 5. The Bearing of the Theory of Activation on the Interpretation of the Mechanism of Certain Biological Processes. 1928
 6. Reduction Potential, Energy Exchange and Cell Growth (Experiments With B. Coli). 1929
 7. A Note on the Antigenicity of Crystalline Egg Albumin. 1929
 8. Cell Structure and Cell Activity. 1930
 9. The Mechanism of Bacterial Action. 1930
 10. Blood-Sugar Studies in Abnormal Mental States. 1931
 11. Biological Oxidations in the Succinic Acid Series. 1931
 12. The Action of Dyestuffs on Enzymes I. Dyestuffs and Oxidations. 1931
 13. The Action of Dyestuffs on Enzymes II. Fumarase. 1931
 14. Trypanocidal Action and Toxicity to Enzymes. 1931
 15. A Colour Test for o-Dihydroxy-Phenols. 1931
 16. Bacterial Enzymes Reactions. 1932
 17. Discussion on the Recent Advances in the Study of Enzymes and their Action. 1932
 18. Oxidations by the Brain. 1932
 19. Dehydrogenations by Brain Tissue. The Effects of Narcotics. 1932
 20. Narcosis and Oxidations of the Brain. 1932
 21. The Action of Dyestuffs on Enzymes III. Urease. 1932
 22. Biochemistry and Mental Disorder. 1932
 23. Glucose-Insulin Administration in Prolonged Narcosis. 1933
 24. The Relation of Thiol Compounds to Glucose Fermentation. 1932
 25. Glutathione, Iodoacetic Acid and Glucose Metabolism. 1933
 26. The Glyoxalase Activity of the Red Blood Cell. 1933
 27. The Action of Polyhydric Phenols on Urease; The Influence of Thiol Compounds. 1933
 28. The Effects of Amines on Oxidations of the Brain. 1933
- Insert: Biochemistry (1971)

16-2

J.H.Q. 1933-1938.

1. Oxidation of Fatty Acids in the Liver. 1933
2. An Effect of Ascorbic Acid on Fatty Acid Oxidations in the Liver. 1934
3. Studies in Fat Metabolism I. The Oxidation of Butyric, Crotonic and B-Hydroxybutyric Acids in Presence of Guinea-Pig Liver Slices. 1935
4. Studies in Fat Metabolism II. The Oxidation of Normal Saturated Fatty Acids In the Presence of Liver Slices. 1935
5. Studies in Fat Metabolism III. The Formation and Breakdown of Acetoacetic Acid in Animal Tissues. 1935
6. Studies in Fat Metabolism IV. Acetoacetic Acid Breakdown in the Kidney. 1935
7. Narcotics and Brain Oxidations. Reversibility of Narcotic Actions in Vitro. 1934
8. The Effects of Narcotics on Tissue Oxidations. 1937
9. The Effects of Ether on Brain Oxidations. 1937
10. Effects of Hydroxymalonate on the Metabolism of Brain. 1937
11. The Glyoxalase Activity of Tissues. 1934
12. Micro-Determination of Ammonia in Presence of Aliphatic Amines. 1937
13. Oxidation of Aliphatic Amines by Brain and Other Tissues. 1937
14. The Oxidation of Choline by Rat Liver. 1937
15. Choline Ester Formation in, and Choline Esterase Activities of Tissues in Vitro. 1936
16. The Action of Morphine and its Derivatives on Contractions of Leech Muscle Due to Acetyl-Choline, Choline, and Nicotine. 1937
17. Trypanocidal Activity and Arsenic Content of the Cerebrospinal Fluid After Administration of Arsenic Compounds. 1936
18. Removal of Bromine from the Blood in Cases of Mental Disorder. 1934
19. Metabolic Studies in Phenylketonuria. 1937
20. Enzymologia I. 1936
21. Enzymologia II. 1937
22. Enzymes. 1936
23. Enzymic Activity of the Brain. 1935
24. Narcosis and Mental Function. 1934
25. Discussion of the Chemical and Physical Basis of Pharmacological Action. 1937
26. Biochemistry and Mental Disorder. 1937
27. Oxidation of Amines by Animal Tissues. 1937
28. On the Mechanism of Acetylcholine Formation in Brain In Vitro. 1938
29. Mechanism of Biological Synthesis of Acetylcholine. 1938

J.H.Q. 1938-1946.

1. Hepatic Oxidation of Choline and Arsenocholine. 1938
2. Anaerobic Oxidations. On Ferricyanide as a Reagent for the Manometric Investigation of Dehydrogenase Systems. 1938
3. Acetylcholine Metabolism in the Central Nervous System. 1939
4. Acetylcholine Metabolism in the Central Nervous System (The Effects of Potassium and Other Cations on Acetylcholine Liberation). 1939
5. Mechanism of the Biological Synthesis of Acetylcholine. 1938
6. The Significance of Anoxaemia in Modern Psychiatric Treatment. 1939
7. Respiration in the Central Nervous System. 1939
8. Benzedrine and Brain Metabolism. 1939
9. The Mechanism of Enzyme Action. 1927
10. Vitamin B1 and Acetylcholine Formation in Isolated Brain. 1940
11. Glycolysis. [n.d.]
12. Oxidising Enzymes [n.d.]
13. Faulty Detoxification in Schizophrenia (Abnormal Excretion of Hippuric Acid after Administration of Benzoate). 1938
14. Faulty Detoxification in Schizophrenia (Abnormal Excretion of Hippuric Acid Administration of Sodium Benzoate). 1940
15. Metabolism of Brain and Nerve. 1939
16. Vitamin B1 and Acetate Oxidation by Bacteria. 1939
17. Estimation of Lactic Acid in Biological Material by Oxidation with Ceric Sulphate. 1939
18. Benzedrine (B-Phenylisopropylamine) and Brain Metabolism. 1940
19. The Site of Action of Narcotics in Respiratory Processes. 1941
20. Nicotinamide, Cozymase and Tissue Metabolism. 1941
21. Nicotinamide, Cozymase and Tissue Metabolism. 1941
22. Tissue Anoxia and Blood Coagulations. 1941
23. Vitamin B1 and Bacterial Oxidations I. Dependence of Acetic Acid Oxidation on Vitamin B1. 1941
24. Vitamin B1 and Bacterial Oxidations II. The Effects of Magnesium Potassium and Hexosediphosphate Ions. 1942
25. Effects of Narcotics and Benzedrine on Metabolic Processes in the Central Nervous System. 1943
26. Enzymes and Their Mode of Action. 1943
27. Food Group (Microbiological Panel). 1944
28. Plant-Growth Substances as Selective Weed-Killers. 1945
29. Biochemistry of Nitrification in Soil I. Kinetics of, and the Effects of Poisons On, Soil Nitrification, as Studied by a Soil Perfusion Technique. 1946
30. Biochemistry of Nitrification in Soil II. The Site Soil Nitrifications.

1946

31. Biochemistry of Nitrification in Soil III. Nitrification of Various Organic Nitrogen Compounds. 1946
32. A New Soil Perfusion Apparatus. 1946
33. Manganese Metabolism in Soils. 1946
34. Toxic Effects of Oxygen and of Hydrogen Peroxide on Brain Metabolism. 1945
35. Bacteriostatic Effects of Potassium Chlorate on Soil Nitrification. 1945
36. Lecture on Soil Metabolism. 1946
37. The Vitamin B Complex. 1945

16-4

J.H.Q. 1947-1951.

1. The Control of Manganese Deficiency in Soils I. The Effects of Sulphur and Thiosulphates on Crops Growing on Manganese-Deficient Soils. 1947
2. The Effects of the Addition to Soil of Alginic Acid and of Other Forms of Organic Matter on Soil Aeration. 1947
3. The Metabolism of Nitrogen in Soil. 1947
4. Coumarin as a Selective Phytocidal Agent. 1947
5. Selective Toxic Action of Thiosulphate on Plants. 1947
6. Toxic Effects of Amino Acids and Amines on Seedling Growth. 1947
7. The Growth-Inhibitory Activity of the Sulphonamides and Plant Growth-Substances, and the Effects Thereon of p-Aminobenzoic Acid. 1948
8. Effects of Organic Arsenic Compounds on Tissue Enzymes and Proteins and on Tissue Metabolism. 1947
9. Effects of Organic Arsenicals on Enzyme Systems. 1947
10. Preliminary Experiments in the Study of the Respiratory Activity of Micro-Organisms Suspended in Thin Films of Fluid Adhering to Solid Surfaces. 1948
11. Chemical Study of Biological Processes in Soil. 1949
12. The Nitrogen Cycle in Nature. 1950
13. Phosphorylation of d-Glucosamine Brain Extracts. 1949
14. Relations between Acetylcholine Synthesis and Metabolism of Carbohydrates and d-Glucosamine in the Central Nervous System. 1949
15. 2,4-Dichlorophenoxyacetic Acid (2,4-D) as a Selective Herbicide. 1950
16. Diethyl Stilbcestrol as a Competitive Intracellular Hydrogen Carrier. 1949
17. Carcinogenic Hydrocarbons. [n.d.]
18. Paper Chromatography of Proteins and Enzymes. 1949
19. Protection of Enzymes by Anticholine-Oxidases Against Inactivation by Nitrogen Mustard. 1950
20. Oxidation of Pyruvic-Oxime by Soil Organisms. 1950
21. Paper Chromatography of Proteins Mixtures and Blood Plasmas. 1950

22. Presence of Iodinated Amino Acids in Unhydrolyzed Thyroid and Plasma. 1950
 23. Catalytic Decomposition of Hydroxylamine by Hemoglobin. 1950
 24. Effects of Fat Meals and Heparin on Blood Plasma Composition as Shown By Paper Chromatography. 1950
 25. Movement of Proteins on Filter Paper. 1951
 26. Biochemistry of Nitrification in Soil. 1951
 27. Nitrification of Amino-Acids. 1950
 28. Conversion of Alcoholic to Lactic Fermentation in Yeast Extracts by Animal Tissues. 1951
 29. Biochemical Aspects of Narcosis. 1951
 30. Effects of Steroids and Diethylstilbestrol on Dehydrogenase Systems. 1951
 31. The Effect of Nicotinamide on Fermentations by Fresh and by Acetone-Dried Powders of Cell-Free Yeast Extracts. 1951
 32. Ornithine Transaminase. 1951
 33. Paper Chromatography of Blood Plasmas in Multiple Sclerosis. 1951
 34. Paper Chromatography of Protein Mixtures and Blood Plasmas. 1951
 35. Effect of Carbon Monoxide on the Biological Reduction of Nitrate. [n.d.]
 36. Nitrogen Fixation, Biological. [n.d.]
 37. Influence of Organic Nitrogen Compounds on Nitrifications in Soil. 1949 J.H.Q. 1952-1956.
- 16-5
- Insert: Newspaper Clipping from the Women's Auxiliary of the Montreal General Hospital- "Distinguished Biochemist Directs Institute". 1952
1. Studies of the Effects of Methyl-bis-(b-chloroethyl)-amine and Anticholine Oxidases on Choline Metabolism In Vitro. 1952
 2. Manganese Dioxide as a Terminal Hydrogen Acceptor in the Study of Respiratory Systems. 1952
 3. Effects of l-Glutamine and Methionine Sulphoxide on Inhibition of Acetylcholine Synthesis in Brain by Ammonium Ions. 1952
 4. Enzyme Inhibitions by Snake Venoms in Relation to their Neurotoxic Action. 1952
 5. Oxidation of Pyruvic Acid Oxime by Soil Organisms. 1951
 6. Metabolism of DL- α -Methyl Glutamate in the Brain. 1952
 7. Amino Acid Oxidations by Snake Venoms. 1952
 8. Enzyme Inhibition by Snake Venom in Relation to their Neurotoxic Action. 1952
 9. Action of Snake Venom on Acetylcholine Synthesis in Brain. 1952
 10. Enzyme Inhibitions by Snake Venoms. 1952
 11. Synthetic Soil Conditioners and Soil Structure. 1952
 12. Anesthesia and Analgesia. 1952

13. Inhibition of Tumor Growth by D-Glucosamine. 1953
14. Amino Acids Interactions in Strict Anaerobes. 1953
15. Effects of Drugs on Metabolism and Physiologic Activity of Brain. [n.d.]
16. A Comparison of the Effects of Narcotics and of 2,4-Dinitrophenol on Sulfanilamide Acetylation. 1953
17. Protein Separations and Interactions on Filter Paper. 1952
18. Effects of Extracts of Normal Tissues and of Tumors on Yeast Fermentation. 1953
19. Effects of Inhibitors of Glutamine Synthesis on the Inhibition of Acetylcholine Synthesis in Brain Slices by Ammonium Ions. 1953
20. Narcotics and Biological Acetylations. 1953
21. Factors Underlying Bacterial Enzyme Synthesis. 1953
22. Arsenite Oxidation in Soil. 1953
23. Studies of Plasma Changes in Skin Diseases by Paper Chromatography. 1953
24. The Enzymatic Breakdown on d-Biotin In Vitro. 1952
25. Action of Drugs on Enzyme Systems. 1953
26. Urethanes and Soil Nitrification. 1953
27. Sulphur Metabolism in Soil. 1952
28. Effects of Mercapto Compounds on Soil Nitrification. 1954
29. Influence of Organic Matter on Aeration and Structure of Soil. 1952
30. 'Krilium' and Synthetic Soil Conditioners. 1953
31. Biochemistry of Soil Nitrification. [n.d.]
32. Absorption of Sugars from Isolated Surviving Intestine. 1953
33. The Antituberculosis Activity of Some Ethylmercapto Compounds. 1954
34. Soil Conditioners. 1954
35. Bacterial Oxidation of Cholic Acid. 1954
36. Note on Microestimation of Ammonia Using the Warburg Manometric Apparatus. 1954
37. Carbohydrate Metabolism of Cancer Tissue. 1954
38. Biochemical Effects of Administration of Narcotics and Alcohol. [n.d.]
39. Leeuwenhoek Lecture on Soil Metabolism. 1954
40. From Current Research on Problems of Alcoholism: II. Report of the Section on Physiological, Biochemical and Pharmacological Research. 1954
41. Inhibitory Action of Meso-Tartrate on Pyruvate Oxidation. 1954
42. Studies of Fatty Acid Oxidation. 1954
43. Narcotics and Brain Respiration. 1954
44. General Processes of Nitrification and Denitrification. 1956
45. Amino Acids on Enzyme Activities of Strict Anaerobes (Cl. Sporogenes). 1954

46. Absorption of Amino Acids from Isolated Surviving Intestine. 1955
47. Absorption of Sugars from Isolated Surviving Intestine. 1955
48. Hydrolysis of Succinylmonocholine by a Liver Esterase. 1955
49. Enzymatic Phospholipid Synthesis: Phosphatidic Acid. [1955]
50. Biochemical Aspects of Narcotic Action. 1955
51. Biochemical aspects of Anesthesia. 1955

BOX 17

17-1 J.H.Q. 1956-1960.

Metabolism of Carcinogenic Hydrocarbons by Soil Microorganisms. 1956

1. Action of Drugs on Enzyme Systems. [n.d.]
2. Anaerobic Deamination of D-Glucosamine by Bacterial and Brain Extracts. 1956
3. Absorption of Sugars and Amino Acids from Isolated Surviving Intestine after Experimental Shock. 1956
4. General Processes of Nitrification and Denitrification. 1956
5. Effects of Local Anesthetics on Respiration of Rat and Brain Cortex In Vitro. 1956
6. Factors Influencing the Anaerobic Glycolysis of Brain and Tumour. 1956
7. Respiration of Mycobacterium Tuberculosis, Strain BCG, in the Presence of Short Chain Fatty Acids. 1956
8. Manometric Estimation of Peptidase Activity. 1957
9. Energy Supply and Enzyme Activity in Strict Anaerobes. Studies on Peptidase Activity in Clostridium Sporogenes. 1957
10. Effects of Anaerobiosis on Bacteriophage Synthesis. 1957
11. The Influence of Biochemistry in Modern Life. 1956
12. Biochemical Studies on Chlorpromazine 2. Effects of Chlorpromazine on Incorporation into Proteins, and Breakdown of Glycine-1-C14 by Isolated Rat Cortex. 1957
13. Biochemical Studies on Chlorpromazine 1. The Effect of Chlorpromazine on Respiratory Activity of Isolated Rat Brain Cortex. 1957
14. Phenylalanine Inhibition of Tyrosine Metabolism in the Liver. 1957
15. Effects of Cations on Sugar Absorption by Isolated Surviving Guinea Pig Intestine. 1958)
16. Effects of Metabolic Inhibitors on Potassium-Stimulated Glucose Absorption by Isolated Surviving Guinea Pig Intestine. 1958
17. Absorption of Mixtures of Sugars by Isolated Surviving Guinea Pig Intestine. 1958

18. Changes of the Electrophoretic Patterns of the Sera of Psoriatics under Various Forms of Therapy. 1958
19. Enzymatic Synthesis of Oligo- and Polysaccharides Containing D-Glucosamine. 1958
20. Metabolic Activities of Tissue Preparations. 1957
21. ...from Research, Knowledge (1958)
22. Carbohydrate Metabolism of Cancer Tissue. [n.d.]
23. The Effects of Aliphatic Aldehydes on the Respiration of Rat Brain Cortex Slices and Rat Brain Mitochondria. 1958
24. The Effects of Aliphatic Alcohols on the Respiration of Rat Brain Cortex Slices and Rat Brain Mitochondria. 1958
25. Biochemical Aspects of Cerebral Dysfunction. 1958
26. Enzymatic Basis of Drug Action. 1958
27. Effects of Ehrlich Ascites Antisera on the Biochemical Activities of Ehrlich Ascites Carcinoma Cells In Vitro. 1959
28. Role of Phospholipids in Oxidative Phosphorylation and Mitochondrial Structure. 1959
29. Role of Phospholipids in Mitochondrial Respiration. 1959
30. The Contributions of Enzymology to Neurochemistry. 1959
31. Effects of Aliphatic Alcohols on the Metabolism of Brain and Liver. 1959
32. Effects of Croton Oil on Sugar Absorption by Isolated Surviving Guinea Pig Intestine. 1958
33. Effects of Dihydrostreptomycin on Amino Acid Incorporation into the Proteins of M.Tuberculosis (BCG). 1959
34. Role of Structure in Mitochondrial Metabolism. 1957
35. Metabolism of Normal Tissues and Neoplasms In Vitro. 1959
36. The McGill-Montreal General Hospital Research Institute. 1959
37. Carbohydrate-Amino-Acid Inter-Relations in Brain Cortex In Vitro. 1959
38. Intestinal Absorption of Sugars and Amino Acids. 1960
39. Biochemical Aspects of Ehrlich Ascites Carcinoma. 1961
40. Amino Acid Accumulation in Ehrlich Ascites Carcinoma Cells. 1960
41. Carbohydrate-Amino Acid Interrelations in Brain Cortex In Vitro: the Effects, thereon, of Drugs Affecting the Nervous System. 1960
42. Effects of Veratrine and Cocaine on Cerebral Carbohydrate-Amino Acid Interrelations. 1960
43. The Effects of Heated Snake Venom on the Phosphate Metabolism of the Rat Spinal Cord. 1959
44. Publication written in Chinese-un-translated. [n.d.]
45. Biochemical Effects of Administration of Narcotics and Alcohol. [n.d.]
46. d-Biotin Oxidase [n.d.]

47. Use of Artificial Electron Acceptors in the Study of Dehydrogenases. [n.d.]
48. Amino Acid Reductases. [n.d.]
49. Study of Soil Metabolism with the Perfusion Technique. [n.d.]
50. Choline Oxidase. [n.d.]
51. Glycolysis. [n.d.]
52. Microbial Biochemistry and its Development. 1959
53. Enzymatic Mechanisms of the Brain and the Effects of Some Neurotropic Agents. [n.d.]
54. Carbohydrate-Amino Acid Interrelations in Brain Cortex In Vitro The Effects, Thereon, of Drugs Affecting the Nervous System. 1960
- 17-2 J.H.Q. 1960-1964.
1. Introductory Remarks to Symposium on Some Biochemical Aspects of the Cancer Cell. 1960
 2. Energetics of, and Factors Controlling, Amino Acid Incorporation into Neoplastic and Normal Tissue Proteins. 1960
 3. Effects of Sulfur-containing Hydantoin Derivatives on Metabolism of Ehrlich Ascites Carcinoma. 1960
 4. The Effects of Alkylating Agents on the Incorporation of Glycine-1-C into Tissue Proteins In Vitro. 1960
 5. Symposia Genetica et Biologica Italica. 1959
 6. Effects of L-Phenylalanine and Sodium Phenylpyruvate on the Formation of Adrenaline from L-Tyrosine in Adrenal Medulla In Vitro. 1961
 7. Effects of Lipotropic Agents on Exchange Diffusion In Ehrlich Ascites Carcinoma Cells. 1960
 8. Effects of Lipotropic Agents on the Metabolism of Ehrlich Ascites Carcinoma Cells and Other Tissues. 1960
 9. Biochemical Aspects of Phagocytosis. 1961
 10. Responsivity of Isolated Brain Tissue to Electrolytes. [n.d.]
 11. Methods of Study of Intestinal Absorption and Metabolism. [n.d.]
 12. Symposium on Membrane Transport and Metabolism. 1961
 13. Effects of L-Phenylalanine and Sodium Phenylpyruvate on the Formation of Melanin from L-Tyrosine in Melanoma. 1962
 14. Succinate/Amino-Acid Interrelations in Rat Brain Cortex In Vitro. 1962
 15. Biochemical Aspects of Abnormal Mental States. 1961
 16. Effects of Metabolic Inhibitors on Potassium and Acetylcholine-Stimulated Incorporation of Phosphate into Phospholipids of Rat-Brain Cortex Slices. 1961
 17. The Effects of Lead and Tin Organometallic Compounds on the Metabolism of Rat Brain Cortex Slices. 1961

18. Tetraethyl Lead Toxicity in Rats. 1962
19. Effects of Aliphatic Alcohols and Fatty Acids on the Metabolism of Acetate by Rat Liver Slices. 1961
20. Effects of Leucocytes on Phage Synthesis. 1962
21. Malignancy and Tissue Metabolism. 1962
22. Carbohydrate Metabolism in Rat Cerebral Cortex In Vitro and Effects of Neurotropic Agents. 1962
23. Effects of Ouabain on Cerebral Metabolism and Transport Mechanisms In Vitro. 1962
24. Effects of D-Glucosamine and Glucose Analogues on Glycogen Biosynthesis In Vitro. 1962
25. Metabolic Activity of Neurons. 1963
26. Absorption of Nutrients. 1963
27. Effects of Acetylsalicylate and 2,4-Dinitrophenol on Metabolism and Transport in Rat Brain Cortex In Vitro. 1963
28. Studies of the Cationic, and Acetylcholine, Stimulation of Phosphate Incorporation of Phospholipids in Rat Brain Cortex In Vitro. 1962
29. Effects of Morphine and Tofranil on the Incorporation of Phosphate (32P) into Phospholipids of Rat Brain Slices. 1963
30. Sarcomycin Inhibition of Deoxyribonucleic Acid Synthesis in Ehrlich Ascites Carcinoma Cells. 1963
31. Particle Uptake by Polymorphonuclear Leucocytes and Ehrlich Ascites-Carcinoma Cells. 1963
32. Fluoracetate and the Metabolism of Ammonia in Brain. 1963
33. Amino Acid Transport in Yeast and Effects of Nystatin. 1963
34. Nadph and Nadh Oxidation by Guinea Pig Polymorphonuclear Leucocytes. 1963
35. Microbial Activities of Soil as They Affect Plant Nutrition. 1963
36. Effects of Anesthetics, Depressants, and Tranquilizers on Cerebral Metabolism. 1963
37. Inhibitions in the Citric Acid Cycle. 1963
38. Active Transport of Ascorbic Acid in Adrenal Cortex and Brain Cortex In Vitro and the Effects of Acth and Steroids. 1963
39. Drug Action and Tissue Metabolism. 1963
40. Effects of Aliphatic Alcohols on the Metabolism of Glucose and Fructose in Rat Liver Slices. 1962
41. Salicylates, Tissue Metabolism and Transport Processes. 1963
42. X-Irradiation of Deoxyribonucleic Acid. 1963
43. Symposium on Transport Reactions at the Cell Membrane. 1963

44. Oxidation of Reduced Triphosphopyridine Nucleotide by Guinea Pig Polymorphonuclear Leucocytes. 1964
 45. Corticosteroid and Acth Inhibition of Active Transport of Ascorbic Acid. [n.d.]
 46. Corticosteroids and Ascorbic Acid Transport in Adrenal Cortex In Vitro. 1963
 47. The Effects of Short-Chain Fatty Acids and Starvation on the Metabolism of Glucose and Lactate by the Perfused Guinea Pig Heart. 1964
 48. Influence of Steroids on Ascorbic Acid Uptake by Adrenal Cortex In Vitro. 1963
 49. Acetate Metabolism in the Brain. 1963
 50. Effects of Actinomycin D on Nucleotide and Nucleic Acid Metabolism of Ehrlich Ascites Cells. 1962
 51. Active Transport of Ascorbic Acid-1-C14 in Brain and Adrenal Cortex Slices In Vitro. 1962
 52. Effects of Ouabain on Cerebral Metabolism and Transport Mechanisms. 1962
 53. Factors Influencing Stimulated P32 Incorporation into Brain Phospholipids. 1962
 54. Biochemical Changes during Phagocytosis. 1961
 55. Effects of Anesthetics, Depressants and Metabolic Inhibitors on Cerebral Metabolism. 1961
 56. Effects of Phloretin on Metabolism and Growth of Tumours. 1961
 57. Amino Acid Transport in Yeast. 1961
- 17-3 J.H.Q. 1965-1970.
1. Transport Processes in Tumours. 1965
 2. Effects of Drugs on Metabolism of the Brain In Vitro. 1965
 3. Some Aspects of Enzyme Activity Part I. 1968
 4. Some Aspects of Enzyme Activity Part II. 1968
 5. Effects of Metabolic Inhibitors on Energy Metabolism of Ehrlich Ascites Carcinoma Cells. 1965
 6. Molecular Transport at Cell Membranes. 1965
 7. Soil Metabolism. 1965
 8. Transport and Metabolism of Thiamine in Rat Brain Cortex In Vitro. 1964
 9. Transport and Metabolism of Thiamine in Ehrlich Ascites-Carcinoma Cells. 1965
 10. Transport and Metabolism of Acetate in Rat Brain Cortex In Vitro. 1965
 11. Effects of Colchicine on Nucleic Acid Metabolism during Metamorphosis of Tenebrio Molitor L. and in some Mammalian Tissues. 1965

12. Effects of Actinomycin D on Nucleic Acid Metabolism and Protein Biosynthesis during Metamorphosis of *Tenebrio Molitor* L. 1965
13. Biochemical Studies of Human Tumour II. In Vitro Estimation of Individual Tumour Sensitivity to Anticancer Agents. 1966
14. Membrane Structure and Function. 1967
15. Tetrodotoxin: Effects on Brain Metabolism In Vitro. 1967
16. Effects of Neurotropic Drugs on Brain Metabolism In Vitro. 1967
17. Effects of Inorganic Salts and of Ouabain on some Metabolic Responses of Rat Cerebral Cortex Slices to Cationic and Electrical Stimulations. 1967
18. Inhibitory Effects of Ammonium Ions and Some Amino Acids on Stimulated Brain Respiration and Cerebral Amino Acid Transport. 1968
19. Acetylcholine Reversal of Potassium Inhibition of Amino Acid Transport in Rat Brain Cortex Slices. 1967
20. Cold Adaptation, Membranes, and Lipid Metabolism. 1969
21. Ribonucleic Acid Biosynthesis in Adult and Infant Rat Brain In Vitro. 1969
22. Effects of Drugs on the Uptake of Acetylcholine in Rat Brain Cortex Slices. 1968
23. Uptake of Acetylcholine in Rat Brain Cortex Slices. 1969
24. Effect of Cerebral Stimulation on Biosynthesis of Nucleotides and RNA in Brain Slices In Vitro. 1969
25. Effects of Cerebral Stimulation on the Biosynthesis In Vitro of Nucleotides and RNA in Brain. 1969
26. Acetoacetate Metabolism in Infant and Adult Rat Brain In Vitro. 1969
27. Effects of Neurotropic Drugs on Sodium Influx into Rat Brain Cortex In Vitro. 1970
28. Carbohydrate Metabolism in the Nervous System (1969)
29. Metabolic Effects of Some Psychopharmacological Agents in Brain In Vitro. 1970
30. Amine Oxidases. 1970
31. Transport Processes at the Brain Cell Membrane. 1970
32. Water Uptake and Energy Metabolism in Brain Slices from the Rat. 1970
33. Tetrodotoxin-Sensitive Uptake of Ions and Water by Slices of Rat Brain In Vitro. 1970

The following articles were inserted at the end without Quastel's own numbering schema.

Development of Science in the Hebrew University, Jerusalem. 1968
Neuromuscular Pharmacology. 1965

Effect of Melatonin on Spontaneous Contractions and Response to 5-Hydroxytryptamine of Rat Isolated Duodenum. 1965

The following article numbers are a continuation from 17-3.

17-4

J.H.Q. 1971-1976.

34. Biochemistry. 1971

35. Effects of Tetrodotoxin and Anesthetics on Brain Metabolism and Transport During Anoxia. 1971

36. Effects of Anesthetics on Sodium Uptake into Rat Brain Cortex In Vitro. 1971

37. Effects of Cerebral Stimuli on Adenine Incorporation into Nucleotides and RNA in Brain Slices from the Rat. 1972

38. Locations of Amino Acids in Brain Slices from the Rat. 1972

39. Uptake and Release of Glutamate in Cerebral-Cortex Slices from the Rat. 1972

40. Control of Synthesis and Release of Radioactive Acetylcholine in Brain Slices from the Rat. 1972

41. Quastel's address to the annual Board of Governors meeting in Jerusalem on receiving an Honourary Doctorate. 1971

42. Observations on Anaerobic Glycolysis in Brain. 1937

43. Antimetaboliti. [n.d.]

44. Spontaneous Action Potentials in Isolated Guinea-Pig Cerebellar Slices: Effects of Amino Acids and Conditions Affecting Sodium and Water Uptake. 1973

45. Biochemistry. 1974

46. Fifty Years of Biochemistry: A Personal Account. 1973

47. Fate of L-Glutamate in the Brain. 1974

48. Amino Acids and the Brain. 1974

49. Metabolism of Amino Acids and Ammonia in Rat Brain Cortex Slices In Vitro: A Possible Role of Ammonia in Brain Function. 1975

50. Anesthetics and Cerebral Fluxes of Ions In Vitro. 1975

51. Cerebral Uptakes and Exchange Diffusion In Vitro of L- and D-Glutamates. 1975

52. Effect of Drugs on Energy Metabolism of the Brain and on Cerebral Transport. 1975

53. Effects of Amino Acids and Convulsants on Spontaneous Action Potentials in Cerebellar Cortex Slices. 1976

54. Action of Amino Acids and Convulsants on Cerebellar Spontaneous Action Potentials In Vitro: Effects of Deprivation of Cl⁻, K⁺ OR Na⁺. 1976

J.H.Q. 1976-1984.

1. Effects of Amino Acids and Convulsants on Spontaneous Action Potentials in Cerebellar Cortex Slices. 1976
2. Action of Amino Acids and Convulsants on Cerebellar Spontaneous Action Potentials In Vitro: Effects of Deprivation of Cl^- , K^+ , OR Na^+ . 1976
3. The Constitution and Synthesis of Thyroxine. 1977
4. Effects of Acetylcholine on Potassium-Induced Changes of Water and Sodium Uptakes in Cerebral Cortex Slices from the Rat. 1977
5. Effects of Acetylcholine on Potassium-Induced Changes of Some Amino Acid Uptakes and Release in Cerebral Cortex Slices from the Rat. 1977
6. Effects of Acetylcholine on Potassium-Induced Changes of GABA and Taurine Uptakes and Release in Cerebral Cortex Slices from the Rat. 1977
7. Effects of n-Methylamino Acids and Convulsants on Spontaneous Action Potentials in Guinea-Pig Cerebellar Slices. 1977
8. Cerebral Glutamate-Glutamine Interrelations In Vivo and In Vitro. 1978
9. Effects of Ammonium Ions on Spontaneous Action Potentials and on Contents of Sodium, Potassium, Ammonium and Chloride Ions in Brain In Vitro. 1978
10. Malonate- a Biochemical Tool. 1978
11. McGill- M.G.H. Research Institute 1947-1965. 1978
12. Newspaper clipping about Quastel by S.C Sung Reprinted from: TIBS. 1979
13. The Role of Amino Acids in the Brain. 1979
14. Book Review by Quastel re: Ach, From Cardiff Onwards by S. Tucek. 1979
15. Uptake and Release of Exogenous [$1-^{14}C$] Acetylcholine by Brain Cortex Slices from the Rat. 1978
16. Evoked Release of Tissue-Bound Exogenous [$1-^{14}C$] Acetylcholine from Rat Brain Cortex Slices. 1979
17. Beginnings of Modern Neurochemistry. 1980
18. Kinetics of Cerebral Uptake Processes In Vitro of L-Glutamate, Branched-Chain L-Amino Acids, and L-Phenylalanine: Effects of Ouabain. 1980
19. Effects of Branched-Chain L-Amino Acids, L-Phenylalanine, and L-Methionine on the Transport of L-Glutamate in Rat Brain Cortex In Vitro. Influence of Cations. 1980
20. Acetylcholine Synthesis in Synaptosomes: Mode of Transfer of Mitochondrial Acetyl Coenzyme A. 1981
21. Amino Acids and Brain Function. 1987
22. A Brief Autobiography. 1981
23. Amines and the Brain. 1983

24. Calcium-Dependant Release of Acetyl-Coenzyme A from Liver Mitochondria. 1983
25. A Short Autobiography. 1983
26. Lajtha/Neurochemical Research. 1984
27. Hepatic Oxidation of Fatty Acids. 1984
28. The Development of Biochemistry in the 20th Century. 1984

The following articles were inserted at the end without Quastel's own numbering schema.

- Amino Acids and Brain Function. [n.d.]
 Neurochimica. [n.d.]
 Relation Between Subsynaptic Receptor Blockade and Response to Quantal Transmitter at the Mouse Neuromuscular Junction. 1981
 Transamination and Cell Metabolism: A Tribute to A.E Braunstein on his 80th Birthday. [n.d.]
 Calcium Mediated Release of Acetyl-Coenzyme A From Mitochondria. [1982]
 The Disposition and Metabolism of [18F]-Fluoroacetate in Mice. [n.d.]
 [Symposium on Receptors- Canadian Federation of Biological Scientists?]. [1987]
 The Relation Between Transmitter Release and Ca²⁺ Entry at the Mouse End-Plate Depends Upon How Entry is Varied. [IBRO Budapest, 1987]
 ANTIMETABOLITI. [n.d.]
 Modulation of Ca²⁺ -Mediated K⁺ -Gating of Erythrocyte Ghosts by External Ca-EGTA. 1984

(continued)

BOX 18

Reports sub-series.

- 18-1 Summary of work of Quastel and colleagues. 1939
- 18-2 Progress Report, Agricultural Research Council. 1942
- 18-3 Progress Reports, Medical Research Council of Canada. 1949, 1955-1957, 1967
- 18-4 Development Report on Soil Additives for Agricultural Use. 1951
- 18-5/15 Progress Report to the National Cancer Institute of Canada (NCIC). 1954-1960, 1962-1965
- 18-16 Progress Report, Rockefeller Foundation. 1956-1960
- 18-17 Report to Defense Research Board on Studies of Properdin. 1957

- 18-18 Progress report, Metabolism in the central nervous system. 1958
- 18-19 3 Year Progress report to National Cancer Institute of Canada. 1963
- 18-20 Final Report, Department of National Health and Welfare on Biosynthesis in Developing Brain of Nucleic Acids, Phospholipids and Enzymes. 1966-1968
- 18-21 Report to Ford Foundation on Study of the Interaction of Polyelectrolytes with Soil. 1968
- 18-22 "The Effects of Benzedrine on Nitrogen Mustard Intoxication in White Mice" [n.d.]
- 18-23 Report, Membrane transport reactions and effects of liptropic, and other agents. [n.d.]
- 18-24 Report on Transport processes in tumors. [n.d.]

Photograph series.

- UBC 118.1/1 Juda Quastel and friends. 1917, b&w, 8.2 x 10.8 cm, small-print.
- UBC 118.1/2 Montreal-McGill General Hospital student staff. [196-?], b&w, 9 x 9 cm, small-print.
- UBC 118.1/3 Juda Quastel McGill Biochemistry staff. 1964, b&w, 17.5 x 24 cm, large-print.
- UBC 118.1/4 The Quastel's visit to India with Jagat Ghosh, Mrs. Ghosh and their daughter. 1966, b&w, 6.5 x 8.8 cm, small-print.
- UBC 118.1/5 The Quastel's visit to India with Jagat Ghosh and his research workers. 1966, b&w, 6.5 x 8.9 cm, small-print.
- UBC 118.1/6 The Quastel's visit to India at the Fulehpur Sikri. 1966, b&w, 12.2 x 9.4 cm, small-print.
- UBC 118.1/7 & 8 Juda Quastel visiting a research lab in Jerusalem. 1966, b&w, 10 x 12.7 cm. small-print.
- UBC 118.1/9 Juda and Henrietta Quastel. 1969, colour, 8.8 x 12.7 cm, small-print.
- UBC 118.1/10 Juda Quastel receiving the Order of Canada. 1970, b&w, 5.7 x 5.8 cm, small-print.
- UBC 118.1/11 Juda and Susan Quastel. (second wife) 1975, colour, 8.8 x 12.2 cm, small-print.
- UBC 118.1/12 Portrait of Juda Quastel. [192-?], b&w, 16.5 x 11.5cm, large print.
- UBC 118.1/13 Portrait of Juda Quastel. [194-?], b&w, 6.2 x 5.5 cm, small print.
- UBC 118.1/14 Portrait of Juda Quastel. [196-?], b&w, 10.1 x 7.5 cm, small print.

BOX 19

- 19-1 Miscellaneous photographs from Montreal General Hospital laboratory. [1940s] b&w, 34 photographs.
- 19-2 Montreal General Hospital photograph scrapbook. 1948 b&w, 30 photographs.
- 19-3 Miscellaneous photographs from Cardiff City Mental Hospital. 1987 colour, 4 photographs.

(continued)

Slides series.

The following slides have been arranged based on a) collections of slides from slide boxes accumulated and labeled by Quastel and b) Quastel's own numerical arrangement when possible. In sum, the slides have been preserved in its original order created by Quastel as much as possible - it is an assumption these slides likely coincide with Quastel's class lectures and/or other talks.

- 19-4 Cerebular potentials. 21 slides [n.d.]
- 19-5 Metabolic analogues. 33 slides [n.d.]
- 19-6 Lecture road to Jericho, Hadassah Hospital. 21 slides [n.d.]
- 19-7 Acetoacetate metal. 13 slides [n.d.]
- 19-8 NH_4^+ and Anelhetics. 25 slides [n.d.]
- 19-9 Untitled lecture. 14 slides [n.d.]
- 19-10 Barcelona. 10 slides 1975
- 19-11 Part of Seattle, anesthetics. 10 slides [n.d.]
- 19-12 Untitled lecture. 25 slides [n.d.]
- 19-13 Untitled photograph. 15 slides [n.d.]
- 19-14 Untitled lecture. 99 slides [n.d.]
- 19-15 Untitled lecture. 18 slides [n.d.]
- 19-16 Untitled lecture. 2 slides [n.d.]
- 19-17 Untitled lecture. 93 slides [n.d.]
- 19-18 Untitled lecture. 31 slides [n.d.]

BOX 20-22

Glass plates series.

The series has no order and its content may be similar to the Slides series.

BOX 23

Biographical Information series (Cont'd)

- 23-1 Articles about Quastel. 1953, 1979-1981
- 23-2 Clippings. 1966-1969
- 23-3 Quastel's 80th Birthday. 1979
- 23-4 Birthday Cards. 1980

Correspondence series (Cont'd)

- 23-5 General correspondence. 1942-1952, 1979-1983
- 23-6 General correspondence. 1944-1974
- 23-7 General correspondence. 1946-1972
- 23-8 Visiting Professorship. 1970-1987
- 23-9 General correspondence. 1970-1983
- 23-10 Correspondence, to and from Quastel. 1979-1980
- 23-11 General correspondence. 1979-1987
- 23-12 General correspondence. 1984-1988

Hospitals series (Cont'd)

- 23-13 Quastel's Hostel. 1969, 1978-1979

Photograph series (Cont'd)

- UBC 118.1/15 Opening of Biochemistry laboratory in Cambridge. From left to right: Sir Jeremiah Coleman, Lord Balfour, unidentified man, Sir Fredrick G. Hopkins. 1923, b&w, 16.8 x 21.7 cm, large-print.

- UBC 118.1/16 Juda Quastel in Cardiff laboratory. [192-?], b&w, 10.7 x 8.2 cm, small-print.
- UBC 118.1/17 Juda Quastel in old Balfour lab (Whitchurch) in England. 1931, b&w, 15.4 x 20.4 cm, large-print.
- UBC 118.1/18 Juda Quastel with Cardiff laboratory staff. Back row: Dodwall, Nealle, Yates, Field, Rosser. Front row: Jowett, Pugh, Quastel, Wheatley, [Tennenbaum] 1935, b&w, 8.6 x 11.5 cm, small-print.
- UBC 118.1/19 Juda Quastel with colleagues in Cardiff laboratory. From left to right: Lionel Penrose, Quastel, A.H. Wheatley and Philip Mann. [193-?], b&w, 12 x 16 cm, large-print.
- UBC 118.1/20 Juda Quastel and colleagues from Agricultural Research Council. 1947, b&w, 12 x 16.3 cm, large-print.
- UBC 118.1/21 Research institute at McGill, Montreal. [194-?], b&w, 25.3 x 20.3 cm, large-print.
- UBC 118.1/22 Juda Quastel with McGill staff. 1960, b&w, 12.3 x 17.5 cm, large-print.
- UBC 118.1/23 Juda Quastel and Montreal laboratory staff. [196-?], b&w, 16.4 x 24.2 cm, large-print.
- UBC 118.1/24 Juda Quastel and wife Susan with their great grandchildren. [197-?] colour, 20 x 26 cm, large-print.
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- 23-14 Laboratory workers. 1922, 1952. b&w, 3 photographs.
- 23-15 Various conferences. 1931-32, 1959, 1968, 1979. b&w, 6 photographs.
- 23-16 Quastel's 80th Birthday. 1979. colour, 18 photographs.
- 23-17 Social gathering. 1981. colour, 18 photographs.
- 23-18 Laboratory in Jerusalem. [197-?]. colour, 12 slides.

Published and Unpublished series

Published Material sub-series (Cont'd)

- 23-19 Books:
 The Hormone Weedkillers: A Short History of Their Discovery and Development, Celia Kirby (1980) - Talks about Q's role in the development of 2, 4-D.
 Neurochemical Research Volume 5, No. 9 (September 1980) - Special issue dedicated to J. Quastel.
 A History of Biochemistry. Girogio Semenza (ed) (1983) - Includes notations written in by Quastel.

Audio/Visual series.

UBC VT 1481 Conversations with Eminent Biochemists: J.H. Quastel in
conversation with H.F. Bradford. - July 1983/The UK Biochemical Society.
VHS. 1hr. 39 mins.