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P99

BORIS BABKIN FONDS

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Name: Boris Petrovich Babkin, 1877-1950

Boris Babkin fonds.- 1914-1948.- 78 cm of textual records.

Biographical Sketch: Boris Babkin was born in Russia, and received his M.D. from the Military-Medical Academy of St. Petersburg in 1904. It was there that he met the pioneering physiologist Ivan P. Pavlov. He worked as Pavlov's assistant until 1912, and they remained close friends throughout Babkin's life, and in 1949 he published a biography of Pavlov. From 1912 until 1922, Babkin taught physiology at various Russian Institutes, but in 1922 political considerations forced him into exile in London. After a short period as professor of physiology at Dalhousie University, he joined McGill's Faculty of Medicine in 1928. This inaugurated an active period of research and publishing, particularly on glandular secretions and the nervous system. After his retirement, in 1942, Babkin continued at McGill as a research fellow in physiology and neurology, and as an associate of the Montreal Neurological Institute.

Custodial History: Old accession number 390.

Scope and Content: The fonds documents mainly Babkin's professional interests in physiology, especially glandular secretions and the nervous system. The fonds contains correspondence; lecture notes; citations; research notes and papers, including manuscripts sent to him by his colleagues; reprints of scientific articles mainly in Russian; and material used in the preparation of the biography of Ivan Pavlov. The latter contains correspondence with Ivan Petrovich Pavlov and members of his family, 1923-1948; photographs and portraits; and an unabridged typescript copy of Parts 1-3 of *Pavlov: a Biography*, with manuscript corrections, 1943-1946.

Source of supplied title proper: Based on the documents in the fonds.

Language: The documents are in English and Russian.

Finding Aids: Inventory list available.

General Note: See also McGill University Archives, M.G. 1071 and Osler Library Archives P118. Conservation and description of the fonds to be done.

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A GUIDE TO THE PAPERS OF BORIS P. BABKIN

Accession 390

Osler Library of the History of Medicine, McGill University

by

TANIA GORN and PAMELA CLINE, COURSE 405-645A
GRADUATE SCHOOL OF LIBRARY SCIENCE

See also acc. 934 Babkin-Friedman

UNIVERSITY ARCHIVES
McGILL UNIVERSITY
MONTREAL, P.Q.
JANUARY 1976

"Legal Deposit"

FOREWORD

At the suggestion of the staff of the Osler Library of the History of Medicine, I agreed to offer certain suggested practical assignments dealing with collections in that Library when the course 405-645A began in the fall of 1975. Tania Gorn and Pamela Cline asked to do a guide jointly, to the papers of the late Professor Boris P. Babkin. Both students had some considerable ability in the Russian language.

A sheet of paper has two dimensions, a volume, three. Somehow or other only the top to bottom measurement was provided in this guide. Otherwise this joint effort provides a reasonably satisfactory guide to an interesting body of material.

John Andreassen
University Archivist

12/12/75

INTRODUCTION

Boris Petrovich Babkin, Professor of Physiology at McGill University from 1928 to 1942, was a prominent figure in the field of physiological research, especially in the area of glandular secretion and the nervous system. Dr. Babkin was a pupil, assistant and life-long friend of Ivan P. Pavlov, of whom he wrote a biography in 1949.

Dr. Babkin was born in Kursk, Russia in 1877. In 1901, he began post-graduate study in the History of Medicine at the Military-Medical Academy in St. Petersburg. Babkin had decided that clinical medicine as such held no interest for him, although the science of medicine itself had great attraction. For this reason, Babkin hoped to combine his study of Medical History with actual experience in its clinical and experimental aspects. In this connection, he first entered the laboratory of Ivan Pavlov at the Institute of Experimental Medicine. Although Pavlov met Babkin's avowal of interest in Medical History, which he considered purely academic, with rather vehement contempt, he nevertheless agreed to let the young Babkin join his laboratory. Babkin was thus initiated into the methods of physiological research in which his interest grew to such an extent that its study, with the time and discipline required, superceded his progress not only in the clinical aspects of medicine, but in Medical History itself.

By 1902, Babkin had decided definitely to become a physiologist. He therefore remained as an assistant in Pavlov's laboratory until 1912. The influence of this period was undoubtedly very great, and is clearly reflected

in the research interests pursued by Babkin for the rest of his life.

In 1912, Dr. Babkin was appointed to the Chair of Animal Physiology at the Agricultural Institute of Novo Alexandria. In 1915, he went to the University of Odessa as Professor of Physiology. However, in 1922, Babkin was forced to leave Russia for political reasons. The details of this episode are obscure. Babkin went to London, where he worked for a time in the laboratory of Sir Ernest Starling. After emigrating to America, Babkin received an appointment as Professor of Physiology at Dalhousie University, Halifax, a position which he held until 1928 when he came to McGill. Babkin was a Research Professor of Physiology at McGill University until 1946, and held the position of Department Chairman in 1940-1941. In addition, he was also a Research Fellow in Physiology from 1942 until 1947. After 1946, Dr. Babkin was associated with the Montreal Neurological Institute and simultaneously was Research Fellow of Neurology at McGill. The year before his death in 1950, Dr. Babkin was awarded the Julius Friedenwald Medal for 1949 by the American Gastroenterological Association.

Throughout his life, Dr. Babkin continued his experimental work and produced many scientific articles. In addition, he and his wife Elena carried on a personal correspondence with Ivan Pavlov and his family. Babkin left a considerable collection of materials to McGill University. In 1968, the Babkin Collection was transferred to the Osler Library from the Department of Experimental Surgery. At that time, the collection consisted of eight boxes and fifteen folders of material, collected or written by Dr. Babkin. The collection included ca. 2,000 reprints, mostly from the 1920's to the 1940's, and nine groups of manuscripts. The decision was made to retain all manuscript material at Osler. The bulk of the reprint collection was then transferred to Dalhousie University, where a collection of reprints

relating to Babkin's interest in the glands of the body, their regulation and control, was established. The Osler Library retained all those reprints in the Russian language, all presentation copies, and all pre-1930 items.

The Babkin Collection now at Osler consists of six boxes of materials. The first two boxes are largely lecture notes and miscellaneous material relating to Babkin's professional interests. Three boxes contain the retained reprints. The sixth box contains materials used by Dr. Babkin in the preparation of his biography of Ivan Pavlov; that is, manuscript correspondence from the Pavlovs, photographs and facsimiles and the typescript copy of the biography itself.

Items 22-27 were donated to Osler Library by Babkin himself ca. 1950 - Cf. Librarian's Report to Osler Library Board of Curators, March, 1951.

REFERENCES:

The information provided in this introduction was largely drawn from the following sources:

Babkin, Boris P. Pavlov: a Biography. The University of Chicago Press, Chicago, 1949.

Babkin Collection. Accession 390. File. Held by the Osler Library of the History of Medicine. McGill University, Montreal.

Biographisches Lexikon der hervorragenden Aerzte der letzten fuenfzig Jahre. Verlag von Urban & Schwarzenberg, Munchen, 1962.

A special thanks is due to Mrs. Tamara Seni of the Osler Library of the History of Medicine, for her kind assistance in the translation of the letters of Seraphima Vasilievna Pavlova.

OL 8/3/72

OSLER LIBRARY MSS. COLLECTION AND ARCHIVES

ACCESSION 390

DEPOSITOR _____

DATE 19 _____

REFERENCE	ITEM / DOCUMENT	DATES	LOCATION
1-12	Lecture notes, etc.		Box 1
13-18	Scientific papers, lecture notes, etc.		Box 2
19/1-53	Reprints		Box 3
19/54- 20/1-42	Reprints		Box 4
20/43-86	Reprints		Box 5
20/87-90, 21	Reprints		Box 6
22-27	Correspondence, biography, etc.		Box 7

FORM: O. L.
no. 7, 1975

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GUIDE TO THE BABKIN PAPERS, OSLER LIBRARY, MCGILL UNIVERSITY

BOX 1 (390/1 to 390/12)

Contains Babkin's lecture notes, correspondence, citations, manuscripts and typescripts; as well as miscellaneous reprints and manuscripts sent to him by colleagues. All notes, manuscripts and typescripts are Babkin's, unless otherwise indicated.

- 390/1 The Autonomic Nervous System. 4 items. Materials on the autonomic nervous system, including lecture notes, notes on the International Congress in Zurich, 1938, and a review and criticism of a current physiological theory.
- 1/1 Envelope for Autonomic Nervous System notes, ms/pencil
- 1/2 Autonomic Nervous System, lecture notes. 234p. (irreg.) 24 cm.n.d. Ms./ink/corr./add./diagrams. Handwriting is indecipherable in parts. Lectures contain: physiology of the autonomic nervous system, history of the autonomic and sympathetic nervous system, adrenal glands, parasympathetic nervous system, histamine, enteric system, relation of drugs to the nervous system, autonomic nervous system and skeletal muscles, influence of electrolytes on the function of the autonomic nervous system, local hormones.
- 1/3 International Congress, Zurich, August 14-19, 1938, notes, 9p.19 cm. Ms./ink/add.corr./diagrams. Contains comments on the Congress, the members attending, and the papers presented.
- 1/4 Criticism of "Chemical-transmitter theory." Review of J.C. Eccles' "Synoptic and Neuro-Muscular Transmission," Physiology Reviews, 17, 1937. 9p.27 cm. Ms./ink/corr/add/diag.
- 390/2 Reprints from Vrachebnoe Delo, no. 18, 20-24, p. 474-487, 670-683. Contain articles by I.P. Pavlov, indicated by 'X': "Deistvie Adrenalina na Sekretsii Geigengainovskogo Zheludochka Sobaki." (Iz fiziologicheskoi laboratorii Voenno-Medizinskoi Akademii.) 3p. 1923.

- 390/3 Pancreas, citations. 69 leaves, miscellaneous sizes, n.d. Ms/ink and pencil. Russian, German, French and English citations with Babkin's notes in Russian and English. The literature review includes citations on the following subjects, listed in roughly alphabetical order: adaptation, adrenalin, anatomy, atropine, bloodflow, cholin, composition, ducts, electrical reflection, embryology, excretion, ferment, innervation, insulin, internal and external secretion, acid and hypoglycemia, diabetes and external secretions, hyper and hypoglycemia, methods, microscopical data, pathology, periodical secretions, PH, poisons, pilocarpin, poisons and mineral waters, pylorus, secretin, secretions in man, stimuli, vitamin.
- 390/4 Kidney, 3 items. Materials include lecture notes, announcement and abstract of the Croonian lecture in 1938, and Babkin's criticism of the lecture.
- 4/1 Kidney, lecture notes, 94p.(irreg), 24cm., n.d. Ms/ink/corr/add./diagrams. Contains: kidney function, theories of renal secretion, Ludwig's theory, absorption, the reaction of urine, functions of the glomeruli, function of the tubules, physiology of micturition.
- 1/1 Envelope for lecture notes on the Kidney, ms/pencil
- 4/2 Criticism of the lecture given by A.N. Richards, : "Processes of Urine Formation," at the meeting of the Royal Society on Thursday, June 30, 1938, and reprinted in the Proceedings of the Royal Society, v.128, p. 398, 1938. 5p., 24cm., n.d. MS/ink/diagrams.
- 4/3 Program of the Croonian Lecture delivered by A.N.Richards at the Royal Society (item 390/4/2.) The program includes an abstract of the lecture. 1p., 21cm., print.
- 390/5 Parathyroid and Gastric Secretion, 6 items. Materials include letter, typescript and manuscript, and index cards outline lectures.
- 5/1 Letter from J. Carl Sutton, M.D., Secretary of the Section for Gastro-Enterology, Montreal Medico-Chirurgical Society, to Dr. Babkin, January 16, 1941. 1p., 27cm., typed. Dr. Sutton invites Babkin to deliver his paper "The Relations between the Parathyroid and Gastric Glands," at the Faculty Club, McGill University, Montreal, on March 13, 1941.

- 390/5/1/1 Postcard mailed to Babkin on March 10, 1941. 8cm., print.
Contains names of speakers at the meeting of the Section
for Gastro-Enterology on March 13, 1941.
- 390/5/2 "The Effect of Parathyroid Hormone and of Activated Er-
gossterol on Gastric Secretion in the Dog." 13p., 27cm.,
n.d. Typescript/add./corr/
- 2/1 Envelope for typescript(390/5/2), MS/pencil
- 5/3 Index cards outlining the lecture given by Babkin
on March 13, 1941 (390/5/1) 11cards, 3x5, MS/ink.
- 5/4 Index cards for a lecture at the Royal Society Meeting
in 1939, given by Babkin: 'Effect of Activated Ergos-
terol and Parathyroid Hormone on Gastric Secretion in
the Dog.' (Typescript in 390/5/2)
- 5/5 "Blood Calcium Level and Gastric Secretion." 7p.
27cm., n.d. MS/ink/add./corr.
- 390/6 Kidney and Gastric Secretion, 4 items. Materials
include citations, a literature review, and letters
to Babkin.
- 6/1 Letter to Babkin from V. Shuman, June 24, 1924(?)
3 leaves, 22cm. MS/ink/diagrams. Russian. Shuman describes
an experiment in the area of kidney and gastric secre-
tion, and gives details on methods, materials, results
and conclusions, as well as a review of the literature
beginning with I.P. Pavlov's work.
- 6/2 Citations, some of them Babkin's, others in various
handwritings. 7p., miscellaneous sizes. MS/ink and
pencil. Most of the citations refer to works on gastric
secretions, gastric juices, and uric acid; many of
the articles cited are written between 1892 and 1908;
citations are in French, English, German and Russian.
- 6/3 Envelope containing a negative of a kidney, 23cm.
- 6/4 Folder marked 'Kidney and Gastric Secretion', con-
2 citations on the relation between gastric and renal
diseases. Experiments cited were conducted in 1932 and
1933. MS/ink and pencil. Not Babkin's handwriting.
- 390/7 "The Amount of Secretory Tissue in the Small Intestine"
by C.P. Martin and J. Banks. 7p., 27cm., n.d. Typescript/
tables
- 7/1 Envelope for Martin and Banks' paper, marked 'On
Intestinal Mucosa' and addressed to Babkin. MS/pencil

- 390/8 Meeting of National Gastro-Enterological Association, June 4, 5, 6, 1940. 5 items. Materials include letter, program, manuscript and typescript.
- 8/1 Letter to Babkin from Henry Kendall, M.D., Chairman of the Program Committee of the National Gastro-Enterological Association, April 5, 1940. 1p. 27cm., typed. Invitation to attend banquet on June 5, 1940, at Hotel Roosevelt, New York
- 1/1 and 1/2 Programs of the Fifth Annual Convention of the National Gasto-Enterological Association, June 4, 5, 6, 1940, at the Hotel Roosevelt, New York. Include notice of Babkin's paper to be presented on June 5: "The Influence of the Parathyroid Glands on the Secretory Processes of the Stomach."
- 8/2 "The Effect of Parathyroid Hormone and of Activated Ergosterol on Gastric Secretion in Dogs." 34p. 27cm. 1940. MS/ink/add./corr. Presented at the meeting of the National Gastro-Enterological Association on June 5, 1940.
- 2/1 Envelope for 390/8/2, MS/ink
- 8/3 "The Effect of Hypercalcemia, Produced by Activated Ergosterol or Parathyroid Hormone, on Gastric Secretion in the Dog." 4p. 27cm., n.d. Typescript/carbon copy.
- 8/5 Citations and notes, 4p. miscellaneous, on Vitamin D.
- 390/9 Small collection of papers, letter, and miscellaneous material on 'gastric secretory depressant'. 5 items.
- 9/1 Letter to Babkin from George B. Jerzy Glass, M.D., Department of Medicine, New York Medical College, July 20, 1940. 1p. 27cm. typed. Letter came with a small collection of reprints on 'gastric mucin', by members of Glass' department. On verso of the letter: Babkin's acknowledgement of receipt of the reprints, dated Aug. 4, 1940, typed/ carbon.
- 9/2 "Hunger and Appetite: Some Definitions and Concepts," by Henry Janowitz, M.D., and M.I. Grossman, M.D., PH.D. (Department of Clinical Science, University of Illinois, College of Medicine. 17p. 27cm., n.d. Typescript/tables.
- 9/3 "A New Parasympathetic stimulant: Ethyl 3 and Dymethyllallyl Barbituric Acid," by C.M. Ballem, R.L. Noble et al. (Research Institute of Endocrinology and the Department of Experimental Surgery, Mc Gill University. 8p. 27cm. n.d. Typescript/tables.

- 390/9/4 " Mucoproteins of Gastric Juices and Mucus and the Mechanism of their Secretion," by Allan A. Grossberg, Simon A. Komarov, and Harry Shay. 7p. 27cm. n.d. Typescript/add.corr. The additions and corrections seem to be in Komarov's handwriting.
- 4/1 Letter to Babkin from Simon Komarov, August 28, 1948. 2p. 23cm. MS/ink, The letter discusses Komarov and his colleagues' paper (390/9/4.)
- 9/5 Gastric Depressant, miscellaneous materials. Includes:
- 5/1 Pharmaceutical Company's advertisement for Benadryl.
- 5/2 Citations on 'gastric secretory depressant': 3p. misc. sizes, MS/ink.
- 5/3 Benadryl in Peptic Ulcer, bibliography. 1p. 32cm. n.d., typed.
- 390/10 Miscellaneous materials; reprint, letters, and materials on Bile Duct Reconstruction. citations. 4 items.
- 10/1 " On Anemone Transvaalensis," by M.G. Brandwyck and J.M. Watt. Reprinted from the Medical Journal of South Africa, 20, 357-360, 1925. (Presentation copy)
- 1/1 Covering letter from J.M. Watt to Babkin, accompanying 390/10/1, September 29, 1942. 1.p. 27cm. typed.
- 10/2 Citations, misc. 8leaves, misc. sizes. MS/ink and pencil.
- 10/3 Letter to Babkin from Franklin Hollander, M.D., Mount Sinai Hospital, New York, April 23, 1941. 1p. 23cm. typed. Re: " Some recent contributions to the physiology of the digestive tract," paper to be given by Babkin on Friday, May 2, 1941, at a meeting of Dr. Berg's seminar at the Harmonie Club in New York.
- 10/4 Materials on Bile Duct Reconstruction:
- 4/1 " Bile Duct Reconstruction with Vitallium Tubes," by Howard M. Clute. Reprinted from the New England Journal of Medicine, 226, 484-487, 1942. 8p. 22cm.
- 4/2 Advertisement from Austenal Laboratory for Vitallium Tubes. 1p.
- 4/3 Advertisement for Vitallium Tubes, illustrated. 1p.

- 390/11 Folder for 'Respiration- Nerve and Muscle Physiology"
MS/pencil.
- 390/12 Autonomic Nervous System, lecture notes. 55p. 27cm. n.d.
Typescript/diagrams. This item seems to be the typescript
of 390/1/2.
- 12/1 Envelope for Autonomic Nervous System lecture notes,
MS/pencil
- 12/2 Small chart illustrating graphic curves on bile,
pancreatic secretion, and gastric secretion. 1p.
print, 7cm.

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BOX 2 (390/13-390/18)

Contains papers scientific in nature, largely lecture notes, notes on experiments on dogs and numerous miscellaneous materials.

390/13 Material on the Central Nervous System. 8 items. No dates. Ms., typed. Includes:

- 13/1 "C.N.S." Lecture notes of the Central Nervous System. Russian. 166 p./Ms./ink, pencil/illus. Deteriorated, almost illegible.
- 13/2 "The Central Nervous System." Lecture notes. 205 p. (irreg.)/Ms./ink, pencil/add./cor./illus. Topics include: "Structure of the Nerve Cell", "Polarity of the Reflex Arc", "Function of the Nerve Cell", "The Spinal cord", "Characteristics of Reflex Action", "Muscle Tone", "Brain as Reflex Center", and "The Mechanism of Postural Reflexes."
- 13/3 "Motor Area (of the Brain)." Lecture notes. 5 p./Ms./ink, pencil/add./illus.
- 13/4 "The Meaning of Science for the Medical Profession." Essay. 1 p./Ms./ink/cor.
- 13/5 Outline of lecture on the nervous system. 1 p./Ms./pencil.
- 13/6 "Topics for a Neurology Course." Dalhousie University, Laboratory of Histology and Embryology, Halifax, N. S. 1 p./typed.
- 13/7 Lecture notes (?) in point form. Dalhousie University, Laboratory of Histology and Embryology, Halifax, N. S. 19 p./typed, carbon. Ten topics: "Pattern of the Nervous System", "Brain Pattern (Embryology)", "Neuron Patterns (Histology and Embryology)", "The Synapse (Pattern)", "Reflex Circuit Patterns", "Receptors and Effectors", "Spinal cord (Nerve Pattern)", "The Medulla Oblongata (Pattern)", "The Pons (Internal Pattern)", "The Mesencephalon (Pattern)."
- 13/8 Envelope. "Central N. S." Ms./pencil
- 390/14 "Intestine." Bibliographic references by facet. Loose-leaf notebook. No date. 30 leaves (plus blank pages)/Ms./ink.
- 390/15 "Some Aspects of the Physiology of the Spleen." M. Sc. Thesis. Submitted by R. B. Malcolm. No date. 22 p./typed, carbon/signature. (Cover page: Ms.(Malcolm)/ink.)

390/16 Evaluative report by Prof. Babkin on the Doctoral Thesis of Dr. W. F. Emmons, McGill University. Also correspondence in this regard. 4 items. April-May, 1927. Ms., typed. Includes:

- 16/1 Letter. From Dr. R. F. Ruttan, McGill University to B. P. Babkin, University of Dalhousie, Halifax. April 16, 1927. 1 p./typed/ signature. Request that Babkin read and report on the Ph. D. Thesis of Dr. Emmons.
- 16/2 Letter. Draft. From Babkin to Dr. Ruttan. 1 p./Ms./pencil. Consent to read and report on the thesis.
- 16/3 Letter. From Nellie Raddall to Babkin. May 6, 1927. 1 p./typed/ signature. Concerns the typing of the report on the thesis.
- 16/4 "Report on the Thesis of Dr. W. F. Emmons, 'Pernicious Anaemia'." From Prof. B. P. Babkin to Dr. R. F. Ruttan. May 6, 1927. 7 p. and cover letter/typed, carbon.

390/17 Material on "Parathyroid Hormone, Gastric Secretion and Ductless Glands." 5 items. 1938-1940(?). Ms., typed, printed. Includes:

- 17/1 Notes on the kidney, renal function and secretion. Taken from scientific articles.. Loose-leaf notebook. 12 leaves/Ms./ink.
- 17/2 "Parathyroid Glands and Gastric Secretion." 10 pieces. 1939(?) - 1940(?). Ms., typed, printed. Largely experimental notes. Includes:
- 2/1 "A Preliminary Report on Activated Ergosterol." R. Garfield Snyder and Willard H. Squires. Reprinted from New York Journal of Medicine. May 1, 1940. 9 p.
- 2/2 Cardboard inkblotter. Eli Lilly and Company.
- 2/3 Notes on gastric secretion and the parathyroid glands. 1 p./Ms./ink.
- 2/4 "Schiffrin's Data." Notes on experiments involving the effects of parathyroid hormone on gastric secretion in three dogs. No date. 4 p./Ms./ink.
- 2/5 "Miss Grant's Facts." Notes on experiments involving the effects of various chemical solutions on gastric secretion in dogs. No date. 2 p./Ms./ink.
- 2/6 "Observations on Ulcerations Adjacent to Experimental Gastric Pouches in Dogs." Asher Winkelstein. No date. 4 p./typed. Deals with the effects of hormones.
- 2/7 Bibliographic references on the effect of parathyroidectomy and parathyroid hormone administration on gastric secretion. Cover letter to Babkin from Hans Selye. October 27, 1939. 3 p./typed/ signature.

- 17/2/8 "The Influence of Prolonged Administration of High Degrees of Vitamin D Upon the Serum Calcium of Adults." Roger T. Farley. Reprinted from The Journal-Lancet. Sept., 1939. 3 p.
- 2/9 "Ergosterol and Parathormone in Gastric Secretion." Results of experiments on "Pavlov Pouch Dogs 1 and 2", conducted by Babkin, Komarova and Komarov. Envelope containing 8 graphs. No date. Photo-reproduced.
- 2/10 Originals of the graphs described above (2/9). Numbering does not correspond exactly. Includes two additional pages of notes. Ms./ink, pencil.
- 17/3 "The Effect of Activated Ergosterol and of Parathyroid Hormone on Gastric Secretion in the Dog." Abstracts. 5 p./typed, carbon. Includes:
- 3/1 "The Effect of Hypercalcemia, Produced by Activated Ergosterol or Parathyroid Hormone on Gastric Secretion in the Dog." B. P. Babkin. 3 copies.
- 3/2 "The Effect of Activated Ergosterol and of Parathyroid Hormone on Gastric Secretion in the Dog." B. P. Babkin, O. Komarov and S. A. Komarova. (See 17/2/9-10)
- 17/4 "Ductless Glands and the Gastro-Intestinal Tract." 2 items. Ms., typed. Includes:
- 4/1 Letter. From Prof. B. P. Babkin to Dr. M. E. Steinberg, Portland, Oregon. December 30, 1938. 1 p./typed, carbon. Response to a request from Dr. Steinberg for information on the effect of the parathyroid glands on gastric secretion. (The original request is attached.)
- 4/2 Bibliographic references on the parathyroid hormone. 1 p./Ms./ink.
- 17/5 Further material on Parathyroid Hormone and Gastric Secretion. 9 pieces. 1938-1939(?). Ms., typed, printed. Includes:
- 5/1 Letter. From Vladimir Korenchevsky, Lister Institute of Preventive Medicine, London, England to Prof. B. P. Babkin, McGill University, Montreal. March 3, 1938. Russian. 6 p./Ms./ink. Concerns Babkin's work, with personal regards.
- 5/2 Letter. From H. T. Jensen, Eli Lilly and Company, Toronto to Prof. B. P. Babkin, McGill University, Montreal. April 17, 1939. Concerns the availability of Lilly's Parathyroid extract in Canada.
- 5/3 "The Endocrine in Relation to the Gastro-Intestinal Tract." J. B. Collip. Reprinted from American Journal of Digestive Diseases. Vol. V, No. 9. 4 p.
- 5/4-8 Miscellaneous notes on experiments on dogs. No dates. 5 p./Ms./pencil.

- 17/5/9 Envelope. Addressed to Prof. B. P. Babkin, Montreal from Vladimir Korenchevsky(?), London. March 3, 1938. Ms./pencil.
- 390/18 Material on Circulation. 12 items. 1938(?)–1941(?). Ms./ink, pencil. Includes:
- 18/1-4 Lecture notes on the function and composition of the blood. 38 p./Ms./ink, pencil/add./cor./illus. Includes notes on the "Total Time of Conduction," a list of physiology books and a brief textbook bibliography.
- 18/5 "The Physiology of Circulation. Part I. The Heart." Lecture notes. Roughly divided into 10 lectures. 1940-1941. 122 p./Ms./ink, pencil/add./cor./illus. Includes 4 pages of non-sequential notes inserted at p. 34f., dealing with diseases of the heart valves.
- 18/6 "Questions on Circulation (III Year Medicine.)" 10 p./typed/Ms. add.,cor. Consists of 263 examination questions.
- 18/7 "The Physiology of Circulation. Part II The Blood Vessels." Lecture notes. 9 or 10 lectures. 1938-1941. 144 p. (irreg.)/Ms./ink, pencil/illus./diagrams.
- 18/8 "The Physiology of Circulation. Introduction. (A. & S. Course)." December 8, 1939. 2 p./Ms./ink.
- 18/9 "Total Metabolism, Enzymes, Secretion, Digestion." Lecture notes for Comparative Physiology 1 A. 1939-1940. (McGill University) 2 p./Ms./ink/cor.
- 18/10 Notes taken from J. Ritchie. "Perspectives in Evolution". 1939-1940. 2 p./Ms./ink.
- 18/11 "Introduction-3rd Year." Lecture notes on Physiology. 21 p. (irreg.)/Ms./ink/add./cor. Emphasizes metabolic processes.
- 18/12 "The Physiology of Circulation." Lecture notes. 88 p. (irreg.)/Ms./ink, pencil/add./cor./illus. Includes notes taken from J. Graham Kerr. "Zoology for Medical Students". 1921.

BOX 3 (390/19/1-390/19/53)

Contains reprints.

- 390/19/1 Zavyalov, Vsevolod, " Elektricheska os'na c'rdteto
v prostranstvo." Otdelen' otpechat'k ot'
Godishnika na Sofiiskiia Universitet', Medi-
tsinski Fakultet', t. viii, Sofia, 1929. 22cm.
76p. (Presentation copy)
- 19/2 Lucas, G.H. and V.E. Henderson, " A new anesthetic
gas: Cyclopropane." Reprinted from Canadian
Medical Association Journal, xxi, 173-175,
1929. 20cm. 8p.
- 19/3 Houssay, B.A. y A. Biasotti, " La diabetes pancrea-
tica de los perros hipofisoprovos." (Instituto
de Fisiologia de la Facultad de Ciencias Medicas
de Buenos Aires.) Extracto de la Revista de la
Sociedad Argentina de Biología, v. vi, Num. 4,
1930. 22cm. 45p.
- 19/4 Martline, H.K., " The response of single optic nerve
fibers of the vertebrate eye to illumination
of the retina." Reprinted from the American
Journal of Physiology, v. 121, no.2, 1938.
24cm. 15p.
- 19/5 Marshall, E.K., " The agglomerular kidney of the toad-
fish(ofsaunus tau)." (From the Laboratory of
Physiology, The Johns Hopkins School of Medicine.)
Reprinted from the Bulletin of the Johns Hopkins
Hospital, v. xliv, no.2, 1929. 24cm. 6p.
- 19/6 Bain, W.A., " The mode of action of vasodilator and
vasoconstrictor nerves." (From the Depart-
ment of Physiology, University of Edinburgh.)
Reprinted from the Quarterly Journal of Experi-
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- 19/42 Biriukov, D.A., " Asimetriia bezuslovnykh sliunnych refleksov." Otdel'nyi ottisk Sbornik po psikho nervno logii, 1929(?). 24cm. 5p. (Presentation copy)
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Box 4 (390/20/1-42) and Box 5 (390/20/43-86) and Box 6 (390/20/86-90)

Contains reprints of scientific articles, mostly in Russian, also in German, English and French. 90 items. 1914-1937. Listed by author.

- 390/20/1 Kogan, V. M. and N. G. Ponirovskii. "Antagonizm Mezhdu Adrenalinom i Insulinom po Otnosheniyu k Avtonomnoi Nervnoi Sisteme." Otdel'nyi ottisk iz zhurnala Vrachebnoe Delo, No. 20-23. Khar'kov, 1924. 21 cm. 17 p. Presentation copy.
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 Bukhshtab, L. B. "Zabolevaniya Nadpochechnikov."
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- 20/8 Kratinov, A. G. and D. A. Epaneshnikov. "Materialy k Fiziologii Slyunnykh Zhelez Zhachnykh. Coobshchenie I: K Voprosu o Mekhanizme Nepreryvnosti." Fiziologicheskii Zhurnal S.S.R., Tom XV, No. 6 s.l., 1932. 24 cm. 8 p.

- 20/9 Kratinov, A. G. and P. N. Kratinova. "Materialy po Fiziologii Golodnoi Deyatel'nosti Pishchevaritel'nogo Apparata." (IV. Dal'neishie Dannye o Sostoyanii Golodnykh Dvizhenii Zheludka pri Paratireoidnoi Tetanii.) Zhurnal Eksperimental'noi Biologii i Meditsiny, No. 17. Moscow, 1927. 23 cm. 11 p. Presentation copy.
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- 20/29 Lebedinskaya, S. I. "K Vliyaniyu Otnositel'noi Nedostatochnosti Okoloshchitovidnykh Zhelez na Sekretsiyu Zheludochnogo Soka." (Iz Otdela Eksperimental'noi Farmakologii Gos. Inst. Eksperimental'noi Meditsiny.) No source. s.l., 1927(?). 25 cm. 14 p.

- 20/30 Lebedinskaya, S. I. Copy II of 20/29 above.
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- 20/32 Leont'ev, I. F. "K Biofizike Nizshikh Organizmov." (Iz Instituta Infektsionnykh Boleznei imeni Mechnikova, Moscow.) Russkii Archiv Protistologii, Tom III. Moscow, 1924. 25 cm. 7 p. Presentation copy.
- 20/33 Leont'ev, I. F. Copy II of 20/32 above.
- 20/34 Leontovich, A. V. "Plexus Nervosus Autonomicus Periphericus." (Iz Fiziologicheskoi Lab. Timiryas. S.-Khoz. Akademii, Moscow.) Zhurnal Eksperimental'noi Biologii i Meditsiny, No. 9. Moscow, 1926. 23 cm. 21 p. Presentation copy.
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BOX 7 (390/22-390/27)

Contains material used in the preparation of the biography of Ivan Pavlov. Manuscript correspondence from the Pavlovs, photographs and facsimiles, and the unabridged typescript copy of the first three parts of the biography itself.

- 390/22 Correspondence from Ivan Petrovich Pavlov, his sons Vladimir and Vsevolod, his daughter Vera, and his wife Seraphima Vasilievna. 1923-1948. Russian. Ms. (with typed translations of I. P. Pavlov's letters.) Largely personal in nature. Includes:
- 22/1 Correspondence from I. P. Pavlov. 1923-1934. 10 letters. Russian with English translations. (Envelope. Ms.(Babkin)/ink.) Includes:
- 1/1-10 English translation done by Babkin with explanatory footnotes. 15 p./ typed, carbon.
- 1/11-20 Original letters. Ms.(I.P. Pavlov)/ink.
- 1/11 From Petrograd to London. December 22, 1923. 2 p./22 cm. Concerns Babkin's situation in London, where he has just begun to lecture; also Pavlov's own work.
- 1/12 From Kellomäki, Finland to Halifax, N. S.(?) September 18, 1924. 2 p./26 cm. Best wishes on Babkin's appointment (to Dalhousie University.)
- 1/13 From Leningrad to Halifax. October 23, 1924. 2 p./14 cm. Congratulation and best wishes to Babkin, with reference to the latter's courage and sense of dignity in leaving Russia.
- 1/14 From Berlin to Halifax, N.S.(?) August 28, 1927. 2 p./27 cm. Concerns Pavlov's complete recovery from surgery (for gall stones) and his eagerness to return to work.
- 1/15 From Leningrad to Montreal (?). January 29, 1928. 2 p./21 cm. Concerns Pavlov's opinions about lecturing, the course of his laboratory work, and the health of his daughter-in-law.
- 1/16 From Leningrad to Montreal. June 8, 1929. 1 p./13 cm. Concerns Pavlov's plans to come to Canada for a visit on the occasion of the Physiological and Psychological Congresses.
- 1/17 From Leningrad to Montreal. September 28, 1929. 2 p./27 cm./ envelope. Expresses gratitude for the hospitality of the Babkins with whom Pavlov and his son Vladimir stayed after attending the XII Medical, Physiological Congress in Boston. Reference to the anniversary of Ivan Michailovich Sechenov.

- 22/1/18 From Leningrad to Montreal. June 5, 1930. 4 p./22 cm./ envelope. Pavlov recommends Dr. Leonid A. Andreev as an assistant to Babkin. Concerns the problem of obtaining permission for Andreev to go to Canada.
- 1/19 Leningrad to Montreal. December 24, 1930. 2 $\frac{1}{2}$ p./27 cm./ envelope. Concerns the delay in obtaining papers for Andreev, the work on gastric and pancreatic secretion and conditioned reflexes. Recounts the story of Tupuomov's article. (A hoax perpetrated by Chiriev described in the biography.)
- 1/20 From Leningrad to Montreal. November 1, 1934 (ret'd.) 1 p./ 14 cm./envelope. Thank you for best wishes on Pavlov's birthday.
- 22/2 Correspondence from Vladimir Pavlov, Vsevolod Pavlov and Vera Pavlova. 1929-1948. 9 letters. Ms./ink (1 typed.) (None of these letters had been previously translated. The effort has been made to describe them only in terms of general content, with the caution as to the limitations of such description.) Includes:
- 2/1 From Vladimir Pavlov. S. S. Leviathan (en route) to Montreal. 1929. 4 p./17 cm. Expresses gratitude to the Babkins for their hospitality. Describes the trip home.
- 2/2 From Vsevolod Pavlov. Leningrad to Montreal. April 23, 1934. 1 p.(typed)/22 cm. Concerns the translation of some articles on hysteria.
- 2/3-9 Correspondence from Vera Pavlova. 7 letters. (The handwriting of these letters is almost indecipherable. There is indication that Vera was very nervous and unwell during much of this period. With the exceptions noted below, they have not been translated.)
- 2/3 From Leningrad to Montreal. December 6, 1936. 8 p./21 cm. Concerns Seraphima Vasievna's health. Her Glaucoma is progressing slowly. Vsevolod's widow is now living with the Pavlovs.
- 2/4 January 2, 1936. 4 p./25 cm.
- 2/5 April 25, 1936. 2 p./25 cm. Concerns her father's recent recovery from a serious case of influenza.
- 2/6 January 9. 1938. 4 p./21 cm.
- 2/7 July 8, 1939. 2 p./20 cm.
- 2/8 October 4, 1947. 2 p./20 cm.
- 2/9 February, 1948. 2 p./20 cm.

- 390/22/3 Correspondence from Seraphima Vasilievna Pavlova. 1924-1937. 19 letters, 2 postcards in Russian. 1 telegram in English. Ms./ink. Personal in nature. Because Seraphima Vasilevna had glaucoma and was becoming blind, the last three pieces are in the manuscript of an unknown person, dictated and signed by Sera herself. (None of these letters had been previously translated. The effort has been made to describe them only in terms of general content, with the caution as to the limitations of such description.) Includes:
- 22/3/1 September 18, 1924. 2 p./26 cm. Congratulates Babkin on his recent appointment to Dalhousie University. Also concerns Vsevelod's (?) desire to receive an invitation to teach physics in America.
- 3/2 October 22, 1926 (?). 4 p./14 cm. Ivan Petrovich isn't well. Verochka also is unwell and is very nervous. The fall is making everyone depressed. Also, they must care for Vsevelod.
- 3/3 February 7, 1927. 8 p./14 cm. Describes Ivan Petrovich's illness, symptoms and treatment. The doctors were mistaken in the original diagnosis. Pavlov continues his work. (quoted in the biography.)
- 3/4 April 10, 1927. 4 p./ 17 cm. Concerns the state of Ivan Petrovich's health, which continues to be poor. (quoted in the biography.)
- 3/5 July 27, 1927. Postcard. From Karlsbad, Czechoslovakia. Concern I. P.'s health with is improved after the trip to Karlsbad.
- 3/6 October 22, 1929. 2 p./28 cm. Sera is feeling well, but Vera is still ill. The Pavlovs are very happy for the Babkins, settled in their new home. They are looking forward to celebrating their Golden Wedding Anniversary in 1931.
- 3/7 November 5, 1930 (?). 4 p./13 cm. The Pavlovs have just returned from vacation and there is lots to do. Vladimir has just gotten married, and he and his wife are living with the Pavlovs. Ivan Petrovich works very late every night. Sera asks if they or any of their friends are interested in religious problems.
- 3/8 March 29, 1931(?). 2 p./26 cm. Easter greetings. Sera describes how she enjoys her granddaughters, to whom she tells fairy tales. Also reminiscences about her conversation with Dostoyevsky on the subject of Russian orthodoxy. This conversation greatly impressed Sera with the depth of Dostoyevsky's thought. She concludes that even old age has its peculiar pleasures.
- 3/9 April 13, 1932(?). 4 p./14 cm. Easter greetings. Sera again writes how they enjoy the grandchildren. Ivan Petrovich is well and continues to work hard.

- 22/3/10 July 17, 1932. 2 p./27 cm. Sera writes that she has glaucoma and will be going blind. Ivan Petrovich is going to Copenhagen and to Rome for International Conferences. Life in Russia is getting worse all the time. While Ivan Petrovich is still alive, things go on all right, but Sera fears that after his death it will be very hard for the family as Ivan Petrovich is not careful about what he says, and makes speeches about freedom. The family is under a great psychological strain. Sera asks the Babkins to try to arrange to bring her family to America. At the university they teach against religion—it is all very difficult. A new laboratory is being built for Pavlov.
- 3/11 December 17, 1932. 4 p./14 cm. Christmas greetings. Sera describes the personalities of her granddaughters. Ivan Petrovich is very busy with laboratory and psychiatric (?) work.
- 3/12 January 3, 1933 or 1934. 4 p./22 cm. Sera complains about old age. Sends Christmas and New Year's greetings. Vera is still very nervous. Because of a heart condition, Sera is confined to bed and reads a lot. She discusses her feelings about Russian literature, especially Turgenev, whom she finds very relaxing.
- 3/13 January 1, 1934. 2 p./27 cm. Sera writes that she isn't feeling well. Ivan Petrovich is getting very tired, but wants to continue working at Koltushi. Reference to the poem "God" by Derevlenko.
- 3/14 May 13, 1935. 4 p./21 cm. Describes the serious case of influenza suffered by Ivan Petrovich in the spring. Sera remarks at how well the government takes of him. (quoted in the biography.)
- 3/15 December 23, 1935. 4 p./14 cm. Concerns Sera's sorrow over the death of Vsevolod, in which she must be strong for the sake of Ivan Petrovich, Vera and Vsevolod's widow. Expresses her religious sentiments. (quoted in the biography.)
- 3/16 Canadian National Telegram. March 5, 1936. "Sincerely thankful friendly sympathy." S. Pavlowa. Sent in response to the Babkins' telegram of condolence on the death of Ivan Petrovich.
- 3/17 March 22, 1936. 8 p./14 cm. Describes Ivan Petrovich's last illness, which developed from influenza into pneumonia, and his death. Describes in detail I. P.'s last days. (quoted in the biography.)
- 3/18 (No date) 1936(?) 4 p./16 cm. First page is missing. Manuscript difficult to read.
- 3/19 June 2(?), 1937. 2 p./22 cm. Dictated to an unknown person. Signed by Seraphima Vasilievna. Reference to Vera; also to the writing of a biography of Pavlov in America.(?)
- 3/20 April 29, 1937. 2 p./23 cm. Easter greetings. Includes poetry.

* NEG. AVAILABLE. FILED IN NEG. COLL. IN KM. 425 UNDER MANUSCRIPTS

- 22/3/21 June 2, 1937. Dictated to an unknown person. Signed by Seraphima Vasilievna. Sera indicates that she is now living in a good situation, but that her heart is bad. Good wishes to all. Includes a description of the "literary soiree" at which she met both Turgenev and Dostoyevsky. (quoted in the biography.)
- 3/22 (Date?) 1937. Postcard. Handpainted scene. Dictated to an unknown person. Signed by Seraphima Vasilievna. Personal greetings and good wishes.
- 390/23 Correspondence from Ivan P. Pavlov. English translations of the letters described above. (see 22/1)
- 390/24 List of items used in the biography of Pavlov. Cardboard. Ms.(Babkin?)/ink. Also includes the same list on McGill University letterhead.
- 390/25 Catalog entry for the typescript of Pavlov, a Biography by B. P. Babkin. Typed, copy.
- 390/26 Photographs of Ivan Pavlov, his family and colleagues, and miscellaneous facsimile copies. 14 pieces. Captions in Ms.(Babkin?)/pencil. Includes:
- * 26/1 Photograph. I. P. Pavlov. 1923. Edinburgh, the International Physiological Congress.
 - * 26/2 Photograph. Group. Ivy, Carlson, Pavlov, Babkin. Luckhardt and Boldgreff. XIII International Physiological Congress. Boston, Mass., August, 1929.
 - * 26/3 Photograph. Group. "Pavlov and his co-workers at the Physiological Laboratory of the M. M. Academy. October 22, 1928. Occasion of the 25th year of service of the attendant Sergei Nikolayev (sitting on the left of Pavlov.)"
 - * 26/4 Photograph. I. P. Pavlov. No date, "after the revolution". "Lecturing at the Military Medical Academy. (3 SETS OF 3)"
 - * 26/5 Photograph. "I. P. Pavlov and his co-workers in the Institute of Experimental Medicine. After the Revolution."
 - 26/6 Certificate from the Soviet Academy of Sciences on the occasion of Pavlov's death. Facsimile copy.
 - 26/7 Photographs. Six, attached to a single leaf.. No dates. Includes: Pavlov's mother, Pavlov's father, *Pavlov with his wife shortly after their marriage, Pavlov in Botkin's laboratory, *Pavlov operating (on a dog) at the Institute of Experimental Medicine, and Pavlov riding a bicycle with a group of unidentified cyclists.
ONLY FIVE
 - * 26/8 Photographs. Five, attached to a single leaf. No dates. Before the Revolution. "Pavlov in his garden and playing 'gorodki' during summer vacation in Estonia."

* neg.
available.
(1 NEG. WITH
NEG. COLL.
2 WITH ARCHIVES
PLUS ANOTHER
COPY OF THE
AUTOCRAPH.)

* MUGS AVAILABLE. FILES IN NO. 602. LOC. IN RM. 428 UNDER PARLER.

- * 26/9 Portrait of Pavlov. January 3, 1925.
- 26/10 Portrait of Pavlov. Age 22. September, 1871. Copy.
- 26/11 Portrait of Pavlov. "Student at St. Petersburg University, 1871-75." Copy.
- 26/12 Portrait of Pavlov. ca. 1875. Copy.
- 26/13 Portrait of Pavlov. 1885-86. Copy.
- 26/14 "Tsentrovzhnie Nervy Serdtsa." (Centrifugal Nerves of the Heart.)
Title page of Pavlov's M. D. Thesis, St. Petersburg, 1883.
Facsimile.
- 390/27 Pavlov: a Biography. Unabridged typescript copy of Parts 1-3 with
ms. corrections. B. P. Babkin, 1943-1946. Includes:
Part I: Biography.
Part II: Early Physiological Work of Pavlov.
Part III: The Physiology of Digestion.
Part IV: Conditioned reflexes. Not included.

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