

MS
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BANTING (FREDERICK GRANT, SIR) PAPERS
Papers

Chronology

Correspondence, research notes and papers, articles, speeches, travel journals, drawings, and sketches, photographs, clippings, and other memorabilia, awards and prizes. Includes some papers from his widow Henrietta Banting (d. 1976). 1908-1976.

Extent: 63 boxes (approx. 8 metres)

Part of the collection was deposited in the Library in 1957 by the "Committee concerned with the Banting Memorabilia", which had been set up after the death of Banting in 1941. These materials included papers from Banting's office. At the same time the books found in his office (largely scientific and medical texts and journals) were also deposited in the University Library. These now form a separate collection in the Thomas Fisher Rare Book Library.

The remainder of the collection was bequeathed to the Thomas Fisher Rare Book Library by Banting's widow, Dr. Henrietta Banting, in 1976. This part of the collection included materials collected by Henrietta Banting for her projected biography of F.G. Banting, as well as correspondence and memorabilia relating to her won career.

Researchers who wish to publish extensively from previously unpublished material from this collection should discuss the question of literary rights with:

Mrs. Nancy Banting
12420 Blackstock Street
Maple Ridge, British Columbia
V2X 5N6 (1989)

Indicates a letter of application addressed to the Director, Thomas Fisher Rare Book Library, is needed due to fragility of originals or confidential nature of documents.

Chronology

- 1891 FGB born in Alliston, Ont. To Margaret (Grant) and William Thompson Banting.
- 1910 Graduated from Alliston High School
- 1910-1912 Attended Victoria College, training for the ministry. Left at Easter, 1912.
- 1912-1916 Attended University of Toronto's Medical School.
- 1915 Feb. Joined Canadian Army Medical Corps. Obtained leave to finish medical training.
- 1916 Dec. M.B. granted. Reported for military duty
Engaged to Edith Roach (possibly early 1917)
- 1917 Mar. Sailed from Halifax to Britain.
May Posted to Granville Canadian Special Hospital (Orthopedic), Ramsgate, Kent. Worked under C.L. Starr. Hospital later moved to Buxton, Derbyshire.
- 1918 Began studying for fellowship in the Royal College of Surgeons.
Passed exams for Royal College certification
- June Sent to France. No. 3 Canadian General Hospital, then No. 13 Canadian Field Ambulance in Amiens-Arras sector.
- Aug. Posted as medical officer to the 44th Battalion, 4th Division.
- Sept. Working in front lines at Arras, then Cambrai.
Wounded in arm at Cambrai. Sept. 27
Recommended for and awarded an M.C. for valour.
Evacuated to England. Recuperated in hospital at Manchester
- Dec. Resumed duties at Granville Canadian Special Hospital.
- July Moved to London and set up in practice on his own.
- Oct. Demonstrator at University of Western Ontario Medical School.
Research assistant to F. R. Miller.
- Oct. 30 Read article on pancreas by Moses Barron in Journal of Surgery, Gynecology and Obstetrics (Oct. 1920).
- Nov. 6 First approached J.J.R. Macleod, Head of the Dept. of Physiology, University of Toronto, with request for lab space and assistance in carrying out experiments to isolate pancreatic extract and discover if such extract could arrest diabetes.
- 1921 April Resigned from London Practise. Came to Toronto.

Chronology

- May 17 Began experiments in space lent by Macleod, with assistance of Charles Best, just graduated with a B.A. from Physiology and Biochemistry.
- July 30 First breakthrough with diabetic dog (no.410) responding to injection of extract made from degenerated pancreas
- Aug. 14 Produced first case of hypoglycemia in diabetic dog (Dog no. 92).
- Sept. Appointed "special lecturer" in Dept. of Pharmacology under V. Henderson
- Nov.-Dec. Continued experiments using pancreas from foetal calves, then using beef pancreas
- By the end of year engagement to Edith Roach broken off.
- 1921 Nov. 14 FGB and C. Best delivered first paper on their discovery to the Journal Club of the Dept. of Physiology. Published as "The internal secretion of the pancreas", by F.G. Banting and C.H. Best, Journal of Laboratory and Clinical Medicine
- Nov. 18 Depancreatized dog "Marjorie" (test dog 33)
- Dec.
Dec. 11 FGB and C. Best administered insulin to each other by injection
Successful treatment of depancreatized dog 35 using extract from its own pancreas and alcohol. Proved that extract could be made using alcohol and whole adult pancreas. No need for degenerated or foetal pancreas.
- Dec. ? J.B. Collip joined the group under Macleod working on the purification of the extract. Began testing potency of extract using normal rabbits. Also working on depancreatized dogs.
- Dec. 20 Banting and Best administered extract to Joe Gilchrist, classmate of Banting's who was diabetic. No beneficial result.
- Dec. 30 Banting delivered paper: "The beneficial influences of certain pancreatic extracts on pancreatic diabetes" to session of the annual conference of the American Physiological Society held at Yale University. Macleod chaired meeting. Paper published as "The internal secretion of the pancreas", by F.G. Banting, C.H. Best, and J.J.R. Macleod, in American Journal of Physiology, 59 (1922).
- 1922 Jan. Banting, Best, Collip and others working on refining the pancreatic extract under J.J. Macleod, using equipment and resources of Connaught Laboratories.
- 1922 Jan. 11 First clinical test of extract on hospitalized patient. Pancreatic extract prepared by Banting and Best administered to Leonard Thompson, diabetic boy in Toronto General Hospital. Clinical test under direction of W.R. Campbell and R.R. Fletcher. Unsuccessful.

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Jan. 17	Collip succeeded in producing a purified extract.
Jan. 23	First successful clinical test. Collip's extract administered to Leonard Thompson by Walter Campbell. Blood sugar dropped. Treatment continued and Thompson recovered.
Jan 27.	Dog "Marjorie" chloroformed. She had lived for 70 days after her pancreatectomy.
Feb.	Clinical texts continued. 6 patients treated in Campbell's and A.A. Fletcher's clinic.
Feb. 7	Banting and Best read a paper to the Toronto Academy of Medicine. Published in the Academy's bulletin as "The Internal Secretion of the Pancreas", by F.C. Banting and C.H. Best.
Feb.	Collip directing large-scale insulin manufacture using resources of Connaught Anti-Toxin Laboratories.
Mar.	Method of producing insulin failed. Collip, Best and others working throughout spring to regain procedures. Insulin famine for those who had been receiving it. Macleod discussing collaboration on manufacture in Clowes of Eli Lilly Laboratory.
April	Death of diabetic child in T.G.H. due to lack of insulin Patent taken out on process under names of Best and Collip and then immediately assigned to the Board of Governors of University of Toronto.
1922 April	Dr. G.H.A. Clowes of the Eli Lilly Company offered the resources of that company for the large scale production of insulin. Clinical research unit to test insulin on diabetic patients at Christie St. Veterans' Hospital was set up under the direction of J.A. Gilchrist.
May	Second joint paper by FGB and C. Best published: "Pancreatic extracts", <u>Journal of Laboratory and Clinical Medicine</u> , 7, 8 (May 1922) FGB, C. Best, J.B. Collip, J.J.R. Macleod, and others of research team presented papers at the meetings of the Royal Society of Canada held in Ottawa. Papers published in the <u>Transactions of the Royal Society of Canada</u> , Series 3, 16, Section 5 (1922).

Chronology

May 3	J.J.R. Macleod presented paper on insulin at the Association of American Physicians at Washington. Published as "The effect produced", by F.G. Banting, C.H. Best, J.B. Collip, W.R. Campbell, A.A. Fletcher, J.J.R. Macleod, E.C. Noble, <u>Transactions of the Association of American Physicians</u> 37 (1922). Following a period from Feb. to May, when little insulin was available due to the difficulties of transferring a small scale process to a large scale operation, C. Best, in mid May, succeeded in discovering a method for obtaining large quantities of purified extract. Best had been made director of insulin production at the Connaught Laboratories by the end of this period.
Spring Summer	C. Best granted his M.A. in physiology. FGB had opened a private practice at 160 Bloor St. W. with Dr. F. Hipwell.
July 3.	Eli Lilly lab. sent first shipment of insulin. July 10 treated Teddy Ryder, received first injection of insulin.
1922 Aug. 15	First treatment of Elizabeth Hughes.
late Aug.	FGB had begun treating diabetic children with insulin at Sick Children's Hospital under D.E. Robertson.
Sept.	FGB began treating patients at the Diabetic Clinic at the Toronto General Hospital which had been set up under the direction of Dr. Duncan Graham. FGB given appointment "Senior Demonstrator" in Faculty of Medicine, U. of T., to satisfy regulations.
Oct.	C. Best enrolled in the Faculty of Medicine, U of T. Reeve prize for medical research awarded FGB and Best First honour received.
1923 June	Appointed to staff of Sick Children's Hospital. Canadian Parliament voted FGB a life long annuity of \$7500.
July	Appointed first professor of the new Banting and Best Chair of Medical Research at U of T, established by the Government of Ontario. Resigned from TGH staff, but retained an honorary post as Consultant in Medicine at TGH. Travelled to London to attend the British Medical Association Congress. Attended International Physiological Society. Travelled abroad during rest of summer.
Aug.	Opened the Canadian National Exhibition, Toronto.
Oct. 25	FGB and J.J.R. Macleod announced as Nobel Prize winners.
1924 June	FGB married Marion Robertson.
July	Cruise through the Carribean to attend International Conference on Health Problems in Tropical America at Kingston, Jamaica.

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Papers

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- 1925
Jan. Began cancer research this year.
Aug. Two sketches in oils exhibited at Hart House Sketch Club Exhibition.
Sept. Travelled through Europe to Sweden.
Delivered Nobel Prize speech.
- 1926 Spring Attended Canadian Medical Association's annual meeting, Victoria, B.C. Read paper on "Medical Research". Travelled north to Alaska.
- 1927
Mar. Began silicosis research.
Summer First painting trip to the Eastern Townships with A.Y. Jackson.
Travelled to Arctic with A.Y. Jackson (Greenland, Elsmereiland, Baffinland) on a government supply boat in capacity of a "minister of health" to the Eskimo.
- 1928 Summer Travelled to the Northwest Territories with A.Y. Jackson and Macintosh Bell.
Nov. Construction began on the Banting Institute.
- 1929 April FGB's son, William Robertson Banting, born.
- 1930 Mar. Sketching trip with A.Y. Jackson in Quebec.
Sept. Banting Institute opened.
Oct. Sketching trip with A.Y. Jackson in French River Area.
- 1931 March Sketching trip with A.Y. Jackson to St. Irenée Quebec.
- 1932 Divorced from Marion Robertson.
- 1933 Nov.-Dec. Attended the International Cancer Congress in Madrid.
Travelled in Europe.
- 1934 Awarded Order of the British Empire.
Sketching trip to Georgian Bay and the French River, Ont.
- 1935
Aug. Became member of the National Research Council.
Attended the 15th International Physiological Congress, at Leningrad, Travelled in Europe.
- 1936 Sketched with A.Y. Jackson in La Cloche Hills, Ont.
- 1937 Mar. Sketching trip with A.Y. Jackson in Quebec. St. Tite-des-Cop.
- 1938
Oct. Elected chairman of the Associate Committee on Medical Research, set up by the National Research Council.
Delivered the Dixon Memorial Lecture, London, England on cancer.
- Fall/
Winter Toured Canada to survey facilities for medical research with C.B. Stewart, assistant secretary of the Associate Committee.
Continued this survey in 1939.

Chronology

- 1939 June Establishment of a Federal Committee on Aviation Medicine by the Department of National Defence, on the recommendation of FGB and others. This committee was later dissolved and replaced by the Associate Committee on Aviation Medical Research, under the National Research Council headed by C.J. Mackenzie. Married Henrietta Ball.
- Sept. Enlisted in No. 15 General Hospital Medical Corps.
Nov.-Dec. In England surveying facilities for medical research, as representative of the Associate Committee on Medical Research. Continued survey in Jan. of 1940.
- 1940 Feb. Attached to Canadian National Defence Headquarters in Ottawa.
Mar. Chairman of the Associate Committee on Aviation Medical Research.
- 1941 Feb. Travelled to Gander, Nfld. in order to fly to England.
Feb. 20 Plane took off from Gander and crashed. FGB killed.

AWARDS, HONOURS, ETC.

- 1916 M.B. (Toronto)
1918 M.C.
1922 M.D. (Toronto); Reeve Prize, University of Toronto; R.N.
1923 Starr Gold Medal, University of Toronto.
1924 D.Sc. (Toronto); LL.D (Queen's); Nobel Prize.
LL.D. (Michigan); LL.D (Univ. Western Ont.);
Sc.D (Yale); John Scott Medal, Philadelphia;
F.R.S.C.
1926 Cameron Prize, Edinburgh.
1927 F.R.C.S. (England).
1930 F.R.C.S. (Canada); D.Sc. (Univ. of State of New York);
1931 Flavelle Medal, Royal Society of Canada.
O.B.E.; Society of Apothecaries, of London Medal.
1934 F.R.S. (London).
1935 Carnegie Corporation Medal; F.R.C.P.; F.N.G.
1936 Starr Memorial Award, Canadian Medical Association.
1939 D.Sc. (McGill).

CORRESPONDENCE, 1908-1941

Chiefly professional correspondence, arranged Chronologically, relating to FGB's scientific career and the honours which he received. Includes some early documents (school reports, receipts, etc.) Family correspondence is arranged alphabetically by sender. See also Scrapbooks (Items 47-49).

- Box 1 1908-1926.
Box 2 1927-1935
Box 4 Family correspondence.

Box 5 **RESEARCH NOTEBOOKS AND PAPERS, 1914-1940**

Early notebooks, 1914-1919
Student lecture notes and notebooks, 1914-1916.
4 vols., 7 folders.
"Cartilage" notebook, 1919. 1 vol.
Notebook recording experiments on knee joints of Dogs, July-Sept. 1919. 1 vol.
Clinical notes on two cases observed at Sick Children's Hospital, 1919. 2 folders.

"Notes on operations assisted", 1919/20. 1 vol.

- Mfm.Dup. 728 Microfilm of notebook, 1920-1925.

Original notebook is in the Academy of Medicine Collection, MS. 123. ([access restricted for Preservation](#))

This notebook contains FGB's records of his Practice in London, Ont. 1920-21 and notes on early experiments at the University of Toronto in May 1921.

INSULIN RESEARCH MATERIALS, 1921-1938

Laboratory notebooks, 1921-1922. 4 vols. 24 folders.

- *Box 6A
Mfm. Dup.71

***Original notebooks are restricted for security and preservation reasons and are available on microfilm only.** (Microfilm Duplicate 71).

- *Mapcase Laboratory charts of dogs, 1921-22.

*Original charts are restricted for security and preservation reasons.

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Papers

- Box 6B
Typed transcripts of 1921 laboratory notebooks
Transcripts made by Prof. Michael Bliss, 1980.
- Box 7
Laboratory notebooks
1922-1923. 2 vols.
1923-1924. 1 vol.
1924. 1 vol.
1925. 1 vol.
1925-1928. 1 vol.
1937. 1 vol.
1938. 1 vol.
- Box 7 &
Mapcase
Miscellaneous notes by FGB on insulin. 3 folders.
Laboratory charts for dogs, 1923-1924
- *Box 8A
*Box 8B
Diabetic patient files and correspondence, 1922-1939
***These materials restricted. Require a letter from Director or Assistant Director of Fisher Library giving permission to consult.**
Includes charts, records, and some correspondence of diabetic patients treated with insulin in 1922 and 1923. Includes some later material.
Arranged alphabetically by patient name.
- Box 9
Letters of gratitude from diabetics, 1922-1931.
Letters received by FGB from diabetics around the world thanking him for making insulin available.
See also Scrapbooks. (Items 47-49)
University of Toronto / Connaught Laboratory files re Insulin, 1922-1923.
Correspondence and agreements with Lilly Research Laboratories, 1922-1923. (See also Best/Macleod Papers)
- Box 10
Papers relating to taking out patents for insulin Production, 1922-1923. (See also J.B. Collip Papers, Item 1)
U of T Insulin Committee's Reports, 1923-1926.

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Papers

- Box 11A
Lantern slides. 6 boxes. (some slides broken)
- Charts and graphs documenting insulin
Experiments Photographs of diabetic patients at
Sick Children's Hospital. 3 slides.
- 3 boxes of these deposited with University of
Toronto Archivist by David Mansur, Executor of
Henrietta Banting's estate, 1988, and referred on to
Fisher Library.
- *Box 11B
Glass microscope slides of smears from dogs
- *Restricted for preservation reasons. Letter
from Director or Assistant Director needed for
access.**
- Box 12
Photographs relating to insulin discovery and early clinical
Trials.
- See also Box 53 and material in Scrapbooks (Items
47-49).
- SUPRARENAL RESEARCH MATERIALS, 1923-1929**
- Box 13
Notebooks recording experiments, 1923-29. 7 vols.
- Offprint: FGB and S. Gairns. "Suprarenal Insufficiency",
American Journal of Physiology, v. 77, no. 1 (June 1926)
- CANCER RESEARCH MATERIALS, 1925-1940**
- Box 14
Mapcase
Notebooks and charts (mapcase) recording experiments, with
Chickens, 1925-1931. 4 vols.
- Box 15
Notebooks recording experiments with chickens, 1932-
1939. 4 vols.
- Looseleaf notebook containing notes and records re cancer
research. 1925-1934.
- Box 16
Notebooks recording experiments with chickens, 1938-
1939. 2 vols.
- Notebook labeled: "Exps. Ideas. General". 1934-1936
- Notes on research on tumours and other medical topics
- Box 17
Notebooks recording experiments with tumours on dogs,
1933; rabbits, chickens, and mice, 1934-1940. 8 vols
- Box 18
Notebooks recording experiments with serums, 1928-1934.
11 vols.
- Miscellaneous notes on cancers

- Box 19 **SILICOSIS RESEARCH MATERIALS, 1927-1934**
 Notebooks recording experiments, 1927-1934. 4 vols
- Miscellaneous notes on silicosis.
- Drafts of articles and speeches by FGB on silocosis.
- Offprints on silicosis collected by FGB.
- Box 20 **AVIATION MEDICINE & OTHER WARTIME RESEARCH MATERIALS, 1937-1940**
 Papers relating to formation of committees to encourage research into aviation medicine.
- Reports, drafts, notes on Canada's wartime research in various fields.
- Notebook on experiment with mustard gas and photograph of mustard gas injury to FGB's leg.
- Xerox of notebook on Bends disease occurring in rabbits, Nov. 1940.
- Original in possession of R.N. Stephenson, 1982.
 Copy procured by M. Bliss who notes this was Probably FGB's last research project.
- Box 21 **MISCELLANEOUS MEDICAL RESEARCH MATERIALS, 1923-1939**
 Notebook of diphtheria toxin, 1923.
- Notebook recording experiments with rabbits, 1925-1927.
- Notebooks on infant diarrhea, 1928-1831. 3 vols.
- Notebook recording experiments with tuberculin in guinea pigs, 1934
 Notebook recording duodenal operations on dogs, 1935-1936.
- Notebook on hypothalamus in dogs and chickens, 1936.
- Box 22 Notes on the nature of scientific research and on the character or personality needed for doing such research.
- Notes on a variety of scientific topics.
- Box 23 **HISTORICAL RESEARCH MATERIALS, 1928-1939**
 Indian and Inuit research notes (both historical and Medical)

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- Box 24
- Research notes on Canadian history
Includes notes from a variety of historical sources
(e.g. Jesuit Relations, voyages of Cartier, Cabot,
Duluth).
- Research notes on Canadian history
Includes notes on local history of Alliston area.
- Box 25
- Miscellaneous historical notes, ca. 1928-1939.
- DIARIES AND JOURNALS, ETC., 1915-1941**
- Box 26
- Officer's Record of Service Book, 1915-1918
Documents FGB's military service during the
1914-1918 war.
- Diary, June 23-Oct. 2, 1918. 1 vol. (3 p. laid in)
- Records FGB's experiences in France. See
Typescript in Box 38.
- Desk calendars, 1921-23. 3 vols.
- (1923 calendar, May 22 page contains draft of
letter to Dr. Joslin re Dr. J.J.R. Macleod.
- Diary, June 4-Sept. 5, 1924. 1 vol.
- Diary of Caribbean trip, kept alternately by FGB
and Marian Banting (with partial typed transcript)
- Box 26**
- DIARIES AND JOURNALS, ETC., 1915-1941**
- Diary, July 24-Aug. 14, 1925. 5 p.
- Partial diary of trip to Sweden kept by Marian
Banting.
- Diary, Aug. 6-Sept. 16, 1925. 4 p.
- Notes on trip to Sweden in unidentified hand.
- Box 27**
- Diaries, date calendars, 1931-1938. 12 vols

*Box 28A

Journals of painting trips, 1927-1931

***Restricted for preservation reasons. Use typed transcripts in Box 28B. Letter from Director or Assistant Director needed for access to originals.**

Journals of painting trips, 1927-1931. Restricted

Eastern Arctic, 1927. Holograph ms. 19 p.

With this journal are notes on the Eastern Arctic trip in FGB's hand and typescripts of 2 letters by FGB in O.S. Finnie, Dept. of the Interior, Ottawa, dated 1927, describing the health of the Eskimo population FGB saw in the Hudson Bay

area.

Also includes: typescript of article by FGB entitled "A Trip to the Eastern Arctic" (2

p.);

and typed page entitled "Note by F.S. [sic] Banting on Alex Jackson".

Western Arctic, 1928. Holograph notebook. 106 p. Restricted.

holograph

With notebook are miscellaneous and typed notes on the Arctic.

Quebec, 1930. Holograph ms. 100 p.

Quebec, 1931. Holograph ms. 55 p.

Box 28B

Journals of painting trips, 1927-1931.

Typed transcripts of holograph journals in Box 28A.

"Skit Lecture on Jackson and Banting Painting Trip to Arctic".

Typescript. 10 p.

With a typed note to FGB signed with illegible Initials.

Journal of painting trip with A.Y. Jackson to St. Tite des Caps,

Mar. 18-Mar. 23 1937

Photocopy of holograph ms. (Sources of original Unknown)

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- Box 29 Diary of European trip, 1933 (Spain, Italy, France).
Holograph ms. 396 p.
- Box 30 Diary and other materials re Russian trip, 1935.
Sketches. 1 folder.
Diary. Holograph ms. 140 p. + 1 vol.
Typed extracts from diary.
Souvenirs of trip and conference.
- FGB went to Russia to attend 15th International
Physiologists' Congress, held in August 1935, in
Leningrad.
- *Box 31 Diaries, 1939-1941. 10 vols.
- *Restricted for preservation reasons. Use photocopy
in Box 32. Letter from Director or Assistant
Director needed for access to originals.
- Box 32A Photocopy of Diaries, 1939-1941.
Box 32B
- Box 33 Miscellaneous notebooks and papers, 1922-1940.
- Address books, c1923-1926; 1940. 6 vols.
- Notebooks, 1933-38. 3 vols.
- Lists of phone numbers; Christmas card lists
- 2 leaves from visitors' book, July 16-Oct. 19, 1922.
- Canadian passport, issued to FGB in 1933.
- WRITINGS (SCIENTIFIC AND LITERARY) BY FGB, 1920-1940
ARTICLES AND SPEECHES
- Arranged chronologically by date of writing or
speaking, in two sequences: holograph drafts and
typescripts; printed format. Bibliographical listing
at front of Box 34 and Box 36. Listing is marked
to show collection holdings.
- Box 34 Drafts and typescripts, 1920-1931
- Box 35 Drafts and typescripts, 1932-1940
- Box 36 Publications (offprints, articles, speeches, etc.),
1922-1939.

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OTHER WRITINGS BY FGB

Box 37

Accounts of the discovery of insulin. 1922; 1940.

Account of the discovery, dated May 6,
1922. 18 p.

Account of the discovery, dated Sept. 1922.
13 p.

Statement. Oct. 8, 1922. 1 p.

“The Story of Insulin”, 1940. 6 folders.
(80 p.+)

Unpublished holograph draft
and typescript.

Box 38

Autobiographical writings

Drafts for autobiography; recollections of
Childhood, some cast in form of short
Stories.

Extracts from diaries, selected and typed\
by Henrietta Banting.

Box 39

Short stories, poems

Drafts and typescripts.

Includes some poems by others, copied
out by FGB.

Box 40

WRITINGS COLLECTED BY FGB (NOT WRITTEN BY HIM)
Blodwen Davies. A Study of Tom Thomson. 6 folders

Typescript of book, annotated by FGB.
Book was published in 1935 by Discus Press,
Toronto .

Box 41

Articles on insulin and allied medical subjects.

Leon Blum. "Treatment of Diabetes Mellitus with insulin", 1923. Typescript.

Frederick Hipwell and J.A. Gilchrist. "The Outlook in Insulin Treatment". Annotated typescript.

J.J.R. Macleod. "Pancreatic Extract and Diabetes". 1922.

Typescript and offprint, from the Canadian Medical Association Journal, June 1922.

Frank C. Mann and Thomas B. Magath. "Studies on the Physiology of the Liver", 1923. Typescript.

Frank C. Mann. Typescript of untitled article on Injection of insulin. 1923.

With photographs of charts,
Correspondence re publication in the American Journal of Physiology,
Physiological Reviews, 1923

Box 42

Offprints of articles on insulin, cancer, and other medical Topics.

Includes articles by C.H. Best, D. Graham, G.E. Hall, J. Hepburn, F. Hipwell, E.P. Joslin, A.W. McCann, J.J.R. Macleod, E.E. Slosson, and the Insulin Committee of the University of Toronto on insulin

DRAWINGS AND SKETCHES BY FGB, 1927-193-?

Chiefly graphite sketches with some pen and ink drawings. Most are undated and untitled.

Arranged by location and by specific trip where this can be Ascertained. Sketches on similar paper (i.e. two holes, three holes, serrated edge, etc.) which must have come from the same or similar sketchbooks have been together, with the exception of those sketches which have been matted (Boxes 44A and 44B oversize).

See also sketches of Russia which are in the Russian diaries in Box 30.

*Material in Boxes 43A and 43B is restricted for security and preservation reasons. Letter from Director or Assistant Director needed for access to these originals.

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- Boxes *43A
- Sketches from trips to: Eastern Arctic on the “Boethic” (1927); Northwest Territories (1928); Quebec (1927; 1930) Cobalt (1932); Georgian Bay and La Cloche, Ont. (1930s); southern Ontario (n.d.). Miscellaneous other sketches.
- See also Boxes 44A and 44B for additional sketches removed from these sequences for matting and exhibiting.
- Boxes *43B
- Rocky Mountain sketchbook (1928), sketches of Spain (1933).
- Boxes 44A-B
Oversize
- Matted drawings. Undated and chiefly untitled.
- These drawings were selected from Boxes 43A and 43B for an exhibition entitled Banting & Jackson, an artistic brotherhood, curated by D.B.G. Fair, for the London Regional Art & Historical Museums and the Canadian Medical Hall of Fame, 1997. The exhibition catalogue is in the Banting Collection. Three items (in smaller mats) were also exhibited at the Banting House Museum in 1997.
- Box 44C
- Slides of 32 paintings by FGB as selected by Henrietta Banting. (2 slides of each painting).
- With slides is an audiotape labeled “Banting AV show”, on which Henrietta Banting gives titles of the paintings.
- Slides and tape were gift of Bill Banting to the Hannah Institute. Received 1987. Access. No. 87.031.
- Slides of 17 paintings by FGB.
- These paintings were photographed for M. Bliss. The original paintings are located on the University of Toronto campus. No titles or locations given. Slides dated 1981.
- Donated by M. Bliss.

BIOGRAPHICAL MATERIALS, 1912-PRESENT

Box 45

POSTHUMOUS TRIBUTES (UNPUBLISHED), 1941-1943

C.M. Tripp's account of FGB's last days at the Gander air base. Typescript. 4 p. (2 copies)

Resolutions and condolences from various Organizations. (See also Box 67 for condolences sent directly to Henrietta Banting)

A.Y. Jackson's talk on FGB's paintings, broadcast on C.B.C. radio, Feb. 1943. typescript. 3 p.

Sketches and photographs for a projected Banting Memorial by W.S. Allward.

Correspondence relating to the naming and Launching of the Liberty Ship S.S. Sir Frederick Banting, 1943. (See also Box 67 which contains Material on the christening of the ship by Henrietta Banting)

C.J. Mackenzie. "Banting Memorial Lecture", Feb. 1942. Typescript.

C.H. Best. "Insulin and Diabetes – in Retrospect and in Prospect. Banting memorial Lecture". 1945. Typescript.

[Macfarlane?] Address at unveiling of monument in honour of FGB at Alliston, June 13, 1954. Typescript. 3 p.

Item 46

University of Toronto. Golden Book: Sir Frederick Banting. 1942. 1 vol. (Book of commemoration)

SCRAPBOOKS. 1890s-1941

Compiled by FGB and probably by Sadie Gairns, his research assistant at the Banting Institute. Include personal and family photographs and letters as well as memorabilia documenting FGB's career.

For conservation reasons all items were removed from the original acidic scrapbook pages and have been remounted on acid-free paper and encapsulated in mylar. The original layout of items on each page has been retained. Microfilm of original scrapbook is available. (See Mfm.Dup.198A-C)

N.B. Items are not in chronological order
In the scrapbooks.

Boxes 47A-C
Oversize
Mfm.Dup.198A

Scrapbook 1. 204 p. 3 boxes.

Clippings on discovery of insulin and ensuing honours bestowed on FGB, 1922-30. Photographs of FGB and CHB on roof of Medical Building, University of Toronto, 1922 (Box 47B); FGB and

CHB in office, 1920s (Box 47C). Holograph draft of FGB's telegram to CHB on hearing of Nobel Prize award, 1923 (Box 47C); telegram from Joslin re Nobel Prize, 1923 (Box 47A)

Photographs of early patients (Elizabeth Hughes, Box 47A; clippings, Boxes 47A-B); letters from diabetic children. (Ruth Whitehill, Box 47A; Myra Blaustein, Box 47B)

Family photographs and letters, including Letters from FGB to his mother after he was wounded in First War, 1918 (Box 47C). Photographs, clippings on FGB's marriage and honeymoon in Caribbean, 1924 trip to Europe, 1925; photos of son, Bill Banting (Box 47C)

Photographs, sketches, and clippings Relating to painting trip to Arctic with A.Y. Jackson, 1927 (Box 47C)

Sketches and caricatures by FGB, Tibor del Polya, A. Lismar.

MS BANTING (FREDERICK GRANT, SIR)
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Boxes 48 A-B
Oversize
Mfm.Dup.198B

Scrapbook 2. 122 p. 2 boxes

School reports, diplomas, degrees, certificates of membership in various learned societies, honours, awards, invitations, etc. (Box 48A)

Clippings and photos. of FGB's family: his wife, Marian Robertson, son Bill Banting. (Box 48A)

Photos. of diabetic children treated by FGB: Teddy Ryder, Elizabeth Hughes, Elsie Needham (Box 48A)

Photos. of FGB's medical colleagues (Box 48A)

BIOGRAPHICAL MATERIALS, 1912-PRESENT

SCRAPBOOKS, 1890S-1941

Boxes 48A-B
Oversize
Mfm.Dup.198B

Scrapbook 2. (cont.)

"Memorandum ... co-operation of the Connaught Antitoxin Laboratories in the researches Dr. Banting, Mr. Best, and Dr. Collip ... Jan. 25, 1922." (Box 48A)

Clippings on FGB's life and career, etc. 1930-1941. Includes: clippings, etc. re the opening of the Banting Institute, 1930 (Box 48B); clippings, etc. re FGB's knighthood, 1934 (box 48B); photos. and souvenirs of FGB's trip to Russia in 1935, including photo of FGB and Pavlov (Box 48B); clippings on FGB's death and funeral. (Box 48B).

Christmas cards reproducing paintings by FGB. (Box 48B)

Two sketches by A Lismar.

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BANTING (FREDERICK GRANT, SIR)

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Box 49
Oversize
Mfm.Dup.198C

Scrapbook 3. 73 p. 1 box.

Clippings re discovery of insulin and ensuing honours, 1922-1940.

Clippings, memorabilia re opening of the Banting Institute, Sept. 1930.

Clippings on 1927 Arctic trip.

Family photos. including clippings re Marriage to Marian Robertson, photos. of son Bill Banting.

Clippings re FGB's death, 1941.

CHRONOLOGICAL FILES OF PRINTED BIOGRAPHICAL MATERIALS

Printed materials relating to F.G. Banting. Chiefly clippings. See also Scrapbooks, Items 47-49

BIOGRAPHICAL MATERIALS, 1912-PRESENT

CHRONOLOGICAL FILES OF PRINTED BIOGRAPHICAL MATERIALS

Box 50
Mapcase
Box 51

1906-1941
1942-1969 (obituaries, memorial services, anniversary ceremonies)

Box 52A

1970-1989 (include material marking the 50th anniversary of the discovery of insulin, 1971)

Box 52B

1990-present (Includes material marking 75th anniversary of discovery, 1996)

Box 53
Mapcase

PHOTOGRAPHS

Photographs of F.G. Banting and his family. Chiefly copies. See also Scrapbooks, Items 47-49. Some fragile originals filed in Box 62 (available for photography Only)

ORIGINAL FILMS AND RECORDINGS

*Original film and recordings should not be used.
Use video cassettes in Box 54B and audio cassettes
as indicated.

*Box 54A

Film: "Dr. Banting and Dr. Best." 16 mm. film.
2 reels.

Comprises still photos only. Appears to be
CBC footage from 1950s. (Information
From U of T Media Centre)
No copy.

Film: "The Discoverer." 16 mm. film. 1 reel.

Made by C.A.G. Matthews, ca. 1932
Shows FGB and co-workers in laboratory.
Video cassette copy in Box 54B.

Film: Home movie film showing Teddy Ryder
and FGB, 1929. Super 8 film. 1 reel.

Approximately ½ minute.
Copied from original lent by Teddy
Ryder's sister, Mrs. Richard Shadford,
In 1985, and returned to her.
Video cassette copy in Box 54B.

Recording: Banting's Christmas greeting to No. 15
Canadian General Hospital, 1940. 1 photo disc.

Use Audio cassette 46.

Recording: "Story of Insulin. Medical Detective".
3 phono discs.

Radio program produced by the Mutual
Radio program produced by the Mutual
Broadcasting System in 1948, with
cooperation of the Public Health Service
of the Federal Security Agency. Contains
two short speeches by Charles Best.

Use Audio cassette 55. (Charles Best's
Voice at 282-332A)

Box 54B

VIDEOTAPES

Videotape (VHS) copy of 16 mm. film, "The Discoverer", ca. 1932, and super 8 film showing Teddy Ryder with FGB, 1929.

2 copy videotapes. See listing for Box 54A for description of original films. One copy made by U of T Media Centre, 1986. Second copy (which is a copy of the first Videotape) made by the Discovery Channel, 1997.

Videotape (VHS) of "Canada's Wonder Drug", 1997.

Television program on insulin and Treatment of diabetes, created by the Discovery Channel, screened May 28, 1997. Contains many visuals from Fisher Library's collections. Approximately 1 Hour.

Videotape (VHS) of Fisher Library's visuals for "Canada's Wonder Drug", 1997.

Videotapes (Beta) for "Canada's Wonder Drug", 1997.

Four tapes labeled "shoot tape".

Videotape (VHS): "Sir Frederick Banting Day. A Brief look at his life". 1995.

Video of a school assembly held at Banting Memorial High School, Alliston, Ont., Nov. 14, 1995.

Videotape (VHS) Tom Friedman, "A Science Odyssey: Matters of Life and Death." Dec. 5, 1997.

Two tapes, labeled "Full mix". Part of a series prepared for PBS Television. Screened in January 1998. Contains a twenty minute (approx.) segment on the discovery of insulin. Gift of Michael Bliss, 1998.

Box 55

RADIO AND FILM SCRIPTS

R. Pearce. "Dreams come true" 1939. CBC radio Script. Typescript. 15 p.

"Comrade in arms" 1945. CBC radio script. Mimeograph. 29 p.

David Scott. "Dogged magician" 1945. Mimeograph. 13 p.

"The Insulin story". 1955-58. National Film Board film script. Mimeograph. 31 p.

Includes some correspondence re script.
See also Feasby Papers for additional
Scripts on the discovery. (BBC, NFB,
Crawley)

BIOGRAPHICAL EXTRACTS

Extract from Seale Harris's book: Banting's
Miracle (Toronto, 1946). Typescript. 17 p.

Extract from Murray Barr's history of the university of Western Ontario, ca. 1975. Typescript. P. 317-418. Sent to Henrietta Banting for comment.

R.W.I. Urquhart. Introduction for projected work on FGB's sketching trips. Ca.1977. Typescript. 7 p.

With this typescript is a T.L. from Urquhart
Commenting on film about the discovery
of insulin, July 2, 1976.

HONORS

Item 56

Nobel Prize citation, 1923.

Illuminated address in special design
Binding.

Box 57

Academic hoods for honorary degrees.
(on loan to Banting House, London, Ont.)

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BANTING (FREDERICK GRANT, SIR)

Papers

*Box 58

Medals.

*Nobel Prize and replica

***Access to original Nobel Prize medal is restricted for security and preservation reasons.**

Listing of other medals is available.
(Medals on loan to Banting House,
London, Ont.)

PORTRAITS

Box 59
Oversize

Portrait of FGB by R.W. Burton, 1966. Oil
Painting.

Portrait of FGB by Charles MacGregor.

Mapcase

Sketch of FGB in his laboratory by A. Lismer
(unsigned).

Removed from scrapbook.

HENRIETTA BANTING PAPERS

Box 60

Correspondence and papers. 1942-1976.

Includes clippings and photographs relating to
Henrietta Banting's role as FGB's widow in
Ceremonies honouring him.

Includes material relating to her career as physician.

Includes some material relating to her research for
her projected biography of FGB.

RESTRICTED MATERIALS

*Box 61

PERSONAL CORRESPONDENCE

***Requires letter of permission from Director
or Assistant Director before access can be
granted.**

RESTRICTED MATERIALS

*Box 62

ORIGINAL MATERIAL, 1921-23.

***These original materials are restricted for security and preservation purposes. Letter from Director or Assistant Director of Fisher Library needed to examine these materials. Xeroxes of this material are filed in collection. Originals should be used only for photography or exhibition.**

*Boxes 63-4

EXHIBITION MATERIALS ON DISCOVERY OF INSULIN

***These original materials are restricted for security and preservation purposes. Special permission (letter, as above) needed to examine this material.**

Items in these two boxes were used to document and illustrate the discovery of insulin in the exhibition "The Discovery of Insulin at the University of Toronto, an exhibition commemorating the seventy-fifth anniversary", held at the Thomas Fisher Rare Book Library, 1996.

Boxes 65-66

Cards for exhibited materials. (Not restricted)

Box 67

HOWARD BANTING PAPERS

These papers were donated by Howard Banting in 1996. Photograph album leaf and genealogical material originally from Edward Banting. (accession 96.040)

Photographs of crashed airplane in which FGB died in Feb. 1941. 5 photos.

With photos. is holograph note from K.L. Chapman, Dated 1989, explaining provenance of photos. "I worked for Canadian Airways Ltd. At Moncton and some of our planes went to the scene and came back with these pictures."

Page from Banting family photograph album.

13 photos. of FGB and his brothers and sisters, parents and grandparents.

"Banting Cairn & Plaque", Sept. 14, 1975. Programme for unveiling and dedication of plaque at the site of Banting family farm outside Alliston.

Edward Banting. "Who's Who in the Banting Family, 1982." 1 vol.

Genealogical research on Banting family
Reproduced from typescript.

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Papers

Box 68
Oversize

CANADIAN DIABETES ASSOCIATION MATERIAL

Commemorative items produced by the London, Ont.
Branch of the Canadian Diabetes Association of Canada.

Framed reproduction of article "He gave his all; a
tribute to the late Sir Frederick Banting ..." by
B.K. Sandwell. 52 x 40 cms.

Framed reproduction of drawing entitled "Birthplace
of Insulin, Banting House, London, Ontario", by
Edward Roche. 1981. 54 x 44 cms. Signed and
limited to 500 copies.

Medallion for presentation to donor (sample)

Box 69

TED RYDER SCRAPBOOK

Scrapbook of clippings, letters, and memorabilia relating to discovery and development of insulin and to F.G. Banting. 1922-1941. 1 vol. (accession 98.073)

Acquired for the Library in 1998 with funds donated by the Faculty of Medicine, University of Toronto, and a grant from the Moveable Cultural Property Program, Ministry of Canadian Heritage.

Assembled by Ted Ryder, one of the first diabetics to be treated successfully with insulin. Ryder was brought by his mother to Toronto in the summer of 1922 for treatment by FGB. He was six years old and suffering from severe juvenile diabetes. After treatment Ted returned home to Hartford, Conn. FGB kept in touch with him through the 1920s and 1930s.

See also Box 8B for additional material by and about Ted Ryder.

Contents include:

A.L.S. & T.L.S. from FGB to E.A. Ryder, 1922-1925.

2 T.L. from E.A. Ryder to FGB, 1924-1925
T.L.S. from FGB to Mrs. Ryder, 1925.

4 A.L.S., 2 T.L.S. from FGB to Ted Ryder, 1929-1938.

Manuscript copy of an extract from a letter by E.A. Joslin to his patients, Sept. 1922, describing the current availability of insulin. 4 p. with identifying envelope.

Calorie chart for Ted Ryder, July-Dec. 1922.

Insulin identification card for Ted Ryder

Box 69

TED RYDER SCRAPBOOK

Manuscript notes on Ted Ryder's Diabetes to 1929. 1 p.

Manuscript notes on Ted Ryder's diabetes. 1932. 1 p.

Dec. 1998
K. Martyn

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BANTING (FREDERICK GRANT, SIR)

Papers

2000 Accession

Box 23

Indian and Inuit Medicine and Legend

Item 10

The League of the Iroquois, by Louis H. Morgan. Notes in pencil by Banting in blank book with cover, title page, frontispiece for *Indian Nights*, by Isabel Ecclestone Mackay. Orange cloth with blue lettering on cover. Title on spine: *Indian* "Medicine" in blue lettering and pen and ink. Inscribed and dated 1931 by Banting.