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James E. Till Fonds

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James E. Till Fonds

TABLE OF CONENTS

BIOGRAPHICAL SKETCH	3
SCOPE AND CONTENT	5
SERIES 1: PERSONAL	6
SERIES 2: CORRESPONDENCE	6
SERIES 3: UNIVERSITY OF TORONTO	8
SERIES 4: NATIONAL CANCER INSTITUTE OF CANADA, ONTARIO CANCER INSTITUTE	9
SERIES 5: PROFESSIONAL ORGANIZATIONS	10
SERIES 6: RESEARCH	11
SERIES 7: MANUSCRIPTS AND PUBLICATIONS	12
SERIES 8: ADDRESSES	12
SERIES 9: PHOTOGRAPHS	13
APPENDIX 1: SERIES 7: MANUSCRIPTS AND PUBLICATIONS	15

University of Toronto Archives

James E. Till Fonds

Biographical sketch

James Edgar Till was born in Lloydminster, Saskatchewan on 25 August 1931. He took his undergraduate (BA 1952) and master's (MA 1954) degrees at the University of Saskatchewan, specializing in physics. He was awarded scholarships by the University of Saskatchewan, Standard Oil Company of California, and the National Research Council. A fellowship from the National Cancer Institute of Canada enabled him to go to Yale where he received his doctorate in biophysics in 1957. He then went to Toronto for a year as a post-doctoral fellow at the Connaught Medical Research Laboratories. He became one of the original members of the scientific staff of Ontario Cancer Institute when it and its affiliate, the Princess Margaret Hospital, opened in 1958. Initially he was with the Physics Division but in 1967 moved to the Division of Biological Research, of which he was appointed head in 1969. He was appointed to the University of Toronto's Department of Medical Biophysics in 1958, as associate professor in 1965 and full professor in 1968. In addition to his administrative duties as head of the Division of Biological Research for 1969 to 1982, he was Associate Dean, Life Sciences in the School of Graduate Studies from 1981-1984. For his outstanding contributions to cell biology, as applied to leukemia, he was appointed University Professor in 1984. He was a founding member of the Centre for Bioethics, and from 1989-1991 chaired the Faculty of Medicine's Decanal Appointments Committee. He was appointed University Professor Emeritus in 1997 and has retired twice, in 1998 and 1999.

Dr. Till's early research interests encompassed radiation physics, molecular biophysics, radiobiology and cellular biology. The most significant work, usually in conjunction with Dr. Ernest McCulloch, was on the cellular biophysics of mammalian cells, with particular emphasis on stem cells. After 1980, his research focused on cancer control, with an emphasis on the epidemiological, behavioural and ethical aspects of decision-making in oncology. Subsequently, he investigated the factors that influence the quality of life for cancer patients after treatment and issues relating to health-related knowledge transfer. In 1989 he was appointed a senior scientist in the Division of Epidemiology and Statistics. In recent years, one of Dr. Till's major interests has been the role of the Internet in fostering the dissemination and discussion of health-related information. He is the author of over 200 research publications.

Dr. Till has been a member of the Biophysical Society, Canadian Association of Physicists, Canadian Society for Cell Biology, Canadian Society for Immunology, Radiation Research Society, and has served on the editorial boards of a number of scientific journals. In 1969 he was elected to the Royal Society of Canada. He was a founding director of the International Society for Health-Related Quality of Life, formed in recognition of the importance of the impact of disease and treatment on patients' quality of life and concerned primarily with efforts to improve patient care. From 1993 to 1995 he chaired the Advisory Committee on Research of the National Cancer Institute of Canada. In 1998-1999 he chaired the Management Committee of the Cancer Information Service of the Canadian Cancer Society. Between 1998 and 2001 he was successively president and past president of the National Cancer Institute of Canada. From 2001 to 2004 he was both vice-chair of the

James E. Till Fonds

Biographical sketch (continued)

Institutional Advisory Board, Institute of Cancer Research, Canadian Institutes of Health Research and chair of the Knowledge Management Committee of the newly formed Stem Cell Network.

Over the years Dr. Till has been the recipient of many honours. His pioneering research with Dr. Ernest A. McCulloch on the multiplication of stem cells in mice earned them the prestigious Gardiner Foundation International Award in 1969, the same year he was elected to the Royal Society of Canada. In 1991 he was a co-recipient with Dr. McCulloch of the Royal Society of Canada's Thomas W. Eadie Medal for 'their revolutionary research in experimental hematology'. In 1993 he was the first recipient of the R. L. Noble Prize of the National Cancer Institute of Canada for 'scientific excellence in cancer research'. The following year he was named an Officer of the Order of Canada. In 2000 he was elected a Fellow of the Royal Society of London and in 2001 received the Robert M. Taylor Award and Medal, a joint award of the National Cancer Institute of Canada and the Canadian Cancer Society, for his contributions to medical research and patient care. In 2004 he and Dr. McCulloch were inducted into the Canadian Medical Hall of Fame. The same year he was awarded an honorary degree (DSc) by the University of Toronto. In 2005 he and Dr. McCulloch went to New York to receive the prestigious Albert Lasker Basic Medical Research Award. In 2009, both McCulloch and Till were nominated jointly for the Nobel Prize for Medicine and Physiology for their work relating to stem cells. The prize was awarded instead to another group for the discovery of how chromosomes are protected by telomeres and the enzyme telomerase.

Dr. Till is married to Joyce Sinclair and they have three children.

University of Toronto Archives

James E. Till Fonds

Scope and content

Records ; textual, graphic, publications, architectural, sound and moving images, 1910-2009 [predominant 1962-2005], 4.62 metres.

Personal records of James E. Till, consisting primarily of correspondence, honours and awards, teaching materials, research and administrative files, manuscripts and addresses (including slides), interviews, and photographs, documenting Dr. Till's career as a professor of medical biophysics at the University of Toronto and as a cancer specialist. Includes files on the Centre (later Joint Centre) for Bioethics and the Department of Medical Biophysics at the University of Toronto, the Canadian Cancer Society and the Ontario Cancer Institute /Princess Margaret Hospital.

Access: Restricted. Series 2 containing Letters of reference are closed for 30 years from date of letter. Requests for access to the restricted material shall be referred to the University Archivist.

Corresponding Accessions: B2005-0031, B2010-0028

Related records in a different fonds: Ernest A. McCulloch Fonds

University of Toronto Archives

James E. Till Fonds

Series 1: Personal

Textual, graphic, sound and moving images; 1952-2007, 0.23 m.

This series consists of biographical information about James Till, primarily in the form of press clippings, biographical sketches he penned, university diplomas for BA (1952) and MA (1954) from University of Saskatchewan, curriculum vitae, and two full length articles about him and his work. Records documenting honours and awards include the original certificates, correspondence, and photographs documenting recognition in his field of expertise, honorary degrees from University of Lethbridge, the University of Saskatchewan, as well as the University of Toronto (see also Series 3) as well as civic honours such as the Order of Canada and the Order of Ontario. Also included are files relating to the induction into the Canadian Medical Hall of Fame (2004), including a video, and the Albert Lasker Basic Medical Research Award (2005) both received jointly with Dr. Ernest McCulloch. Manuscripts of some speeches may be found in some files, as well as Series 8.

For photographs, see Series 9 Photographs.

B2005-0031/001 (01) – (04) Biographical 1952-2004
B2010-0028/001(01) –(02)

B2005-0031/001(05) – (11) Honours, Awards 1967-2007
B2010-0028/001 (03)-(11)
B2010-0028/002

B2010-0028/001M – Video – Induction ceremony, Canadian Medical Hall of Fame, 2004

Series 2: Correspondence

Textual, graphic, 1962-2005, 1.04 m.

The correspondence in this series consists is primarily professional, with a number of personal letters scattered throughout. Though the outside dates are given as 1962 to 2005, the bulk of the correspondence dates from the mid-1970s. The arrangement is alphabetical by name of the author, with a ‘miscellaneous’ file at the beginning of many letters. Included are substantial files on individuals who were closely connected with the University of Toronto and/or the Ontario Cancer Institute, including Ronald Buick, Alastair J. Cunningham, Norman Iscove, Harold E. Johns, Dorothy Lamont, Tak Mak, Ernest A. McCulloch and David Tritchler. Non-University of Toronto people, with whom there is extensive correspondence, include Sam Lan and William J. McKillop.

The correspondence covers a wide range of Dr. Till’s activities during the period covered.

University of Toronto Archives

James E. Till Fonds

Series 2: Correspondence (continued)

Some of it relates to honours bestowed on his colleagues, including the recognition of those who had died with accompanying eulogies and obituaries. There is much correspondence on issues relating to research, including the writing of papers and the delivering of public addresses, and including drafts of some of the latter. There are also letters of reference, correspondence and memoranda relating to the defence of theses and to visiting professors and researchers. Also accompanying the correspondence is notes, biographical sketches, programmes, articles, photographs and a few slides.

For additional material on research papers and public addresses, see Series 7 and 8.

For photographs, slides see Series 9.

Access: Restricted: Letters of reference are closed for 30 years from date of letter. Requests for access to the restricted material shall be referred to the University Archivist.

Box	(file)	Description	Date(s)
B2005-0031			
/001	(12) – (16)	“A” miscellaneous – Raymond Milton Baker	1967-2003
/002		Barofsky, Ivan – “C” miscellaneous	1962-2005
/003		Carlsen, Svein Arne – Abraham Fuks	1972-2003
/004		“G” miscellaneous – Paul Kurd	1964-2004
/005		“L” miscellaneous – Elizabeth Maunsell	1969-2000
/006		Mayer, Musa – Kazuiyo Onodera	1968-2005
/007		Osaba, David – Wade Schuette	1964-2002
/008		Sheinin, Rose – “W” miscellaneous	1971-2005
/009	(01) – (09)	Ware, John E. – Peter Zandstra	1964-2002

James E. Till Fonds

Series 3: University of Toronto

Textual, sound and moving images; 1962-2009, 0.45 m.

This series focuses on Dr. Till's professional duties at the University of Toronto, primarily within the Centre (later Joint Centre) for Bioethics, but also includes files on committees with which he was involved, such as the Presidential Commission on the Health Sciences (Leyerle, chair). There are also files on the Department of Medical Biophysics, the Institute of Medical Science, and the School of Graduate Studies, especially its feasibility committee on a graduate program in bioethics which Dr. Till chaired (1985-1987), and the courses that he taught. In 2009, the Department of Medical Biophysics celebrated its 50th anniversary – a DVD slide show produced for the occasion is included in this series.

The first files document Dr. Till's employment at the University of Toronto, primarily from 1981 when he was appointed associate dean of Division 4, School of Graduate Studies. The files also cover his receiving tenure, his position as University Professor, and his retirement. These are followed by files on computer use, systems, and websites, about which he wrote extensively (see Series 7) from the late 1990s.

The files on the Centre for Bioethics are extensive and detailed, beginning with the recommendations in 1987-1988 of the 'Lowy Committee', and include, of particular significance, Dr. Till's files on seminars held there from 1988 to 1995. The Centre evolved into the Joint Centre on Bioethics in December 1995, with Dr. Till playing a significant role in the process and subsequently as a member of its advisory committee and in the creating of new courses and seminars.

These files are followed immediately by several on the Department of Medical Biophysics and in the Institute of Medical Science. There are also files on a course leading to a BSc in radiation sciences and a medicinal chemistry course offered to pharmacy students. Most of the remaining files in this series relate to the School of Graduate Studies as described above. The courses (arranged by course number) are primarily those offered in the medical biophysics program: human genetics, radiobiology, mathematical biophysics, quantitative biology, oncology, health economics, and bioethics. They date from 1962 to 2005. The series concludes with a file on the Medical Biophysics Student Day (12 May 1995).

This series contains correspondence, memoranda, minutes, reports, and detailed (latterly typed) notes for lectures, with accompanying course outlines and related material. Except for the course material, the files largely date from 1975.

Box	(file)	Description	Date(s)
B2005-0031			
/009	(10) – (20)	Appointments, honours, computer files	1972-1999
/010		Websites; Presidential Commission on the Health Sciences; Centre for Bioethics,	1988-1993

University of Toronto Archives

James E. Till Fonds

Series 3: University of Toronto (continued)

Box (file)	Description	Date(s)
B2005-0031 /011	Centre for Bioethics Joint Centre for Bioethics	1993-1995 1995-2004
	Department of Medical Biophysics; Institute of Medical Science; School of Graduate Studies – feasibility study and courses (to human genetics)	1992-1993
/012 (01) – (09)	School of Graduate Studies – courses (radiobiology to bioethics) Medical Biophysics Student Day	1962-2005 1995
B2010-0028 /002M	Department of Medical Biophysics – 50 th anniversary DVD	2009

Series 4: National Cancer Institute of Canada, Ontario Cancer Institute

Textual, architectural, 1974-2005, 0.51 m.

Dr. Till was associated both with the National Cancer Institute of Canada (NCIC, a granting agency) and the Ontario Cancer Institute (OCI, a research institute), where he was a salaried employee. The OCI is an affiliate of Princess Margaret Hospital, a teaching hospital at the University of Toronto and part of the University Health Network.

This series begins with Dr. Till's files documenting his involvement with the NCIC, in particular his membership in a number of committees and centres. He chaired the NCIC's Advisory Committee on Research (ACOR) from 1993 to 1995, and the Selection Committee for Executive Director (1996). Other committees documented here are the Committee on Planning and Priorities (1995), the External International Review Committee (1991), the National Task Force on Personnel (1992), and the Joint Task Force on Behavioural Research and the centre that arose from its recommendations, the Centre Behavioural Research and Program Evaluation (CBRPE). The NCIC files conclude with a review of its policies on workshops, its eighth course on oncology (1992), its 1995 annual meeting and Dr. Till's presentation, 'An ethics of research priorities' (1994).

The files of the Ontario Cancer Institute/Princess Margaret Hospital document Dr. Till's involvement with its Board and committee activities, centring around the relocation of the Princess Margaret Hospital to University Avenue in 1995 and the reappraisal of its research and teaching programs and related issues such as intellectual property rights. The most substantial files are on Board retreats, the committee to review clinical research, the

University of Toronto Archives

James E. Till Fonds

Series 4: National Cancer Institute of Canada, Ontario Cancer Institute (cont'd)

intellectual property committee, the planning committee's sub-committee on governance, and the health status group. Other committees and reports focus on aspects of structural reorganization, space requirements, 'visioning', and aspects of planning such as patient care.

The series ends with files on the quality of life assessment project (1993-1994) and a site visit to the OCI's Division of Biological Research in November 1986.

The material in this series consists of correspondence, notes, memoranda, minutes, reports, press coverage, cartoons and architectural drawings. The arrangement is by descending order of authority within each organization and alphabetically by name of committee.

Architectural drawings relating to the lease of 559 Jarvis Street in 1987 have been removed from box 015(14) to 001A.

Box	(file)	Description	Date(s)
B2005-0031			
/012	(10) – (13)	NCIC correspondence – Advisory Committee on Research (ACOR)	1976-2005
/013		NCIC Advisory Committee on Research – Centre for Behavioural Research and Program Evaluation	1993-2001
/014		NCIC Centre for Behavioural Research and Program Evaluation – OCI/PMH Board retreat (1994)	1974-2005
/015		OCI/PMH. Retreat re Board restructuring (1995) – Planning documents	1981-1996
/016	(01) – (13)	OCI/PMH. Planning committee's subcommittee on governance – Site visit (3 November 1986)	1974-1998
/001A		Architectural drawings, lease of 559 Jarvis St., 1987 (1986-1987)	

Series 5: Professional organizations

Textual, 1975-2000, 0.03 m.

This slim series contains files about the following organizations: Addiction Research Foundation, American Society of Blood and Marrow Transportation, Canadian Bioethics Society, Canadian Cancer Society, Cancer Care Ontario, the Medical Research Council of Canada, and the Ontario Cancer Treatment and Research Foundation.

University of Toronto Archives

James E. Till Fonds

Series 5: Professional organizations (continued)

These files contain primarily correspondence which, in all but two instances, is routine. In 1998 the American Society of Blood and Marrow Transportation inaugurated its Ernest McCulloch and James Till Award. A file on the Ontario Cancer Treatment and Research Foundation contains material relating to the report of a research working group of the Provincial Cancer Network headed by Ronald Buick that reported at the end of 1994, and the work done by the transition team to implement its recommendations.

The arrangement of the files is alphabetical.

B2005-0031

/016 (14) – (22) Addiction Research Foundation - Ontario Cancer
Treatment and Research Foundation 1975-2000

Series 6: Research

Textual, 1963-2002, 0.12 m.

This series begins with a folder of reports prepared by Dr. Till on his research and intended primarily for internal administrative use, for notation in academic journals, for entries in volumes such as *Canadian Who's Who* and, latterly, online sources. The years covered are 1987-2001.

The remaining files contain correspondence, notes, drafts of reports and support material for the following areas of research: growth models, 'stochastic models of population growth', repression genetics, and Iceland and privacy legislation, associated with which is a copy Evangeline Racha's master's thesis for Stanford University, "Iceland's decode genetics: bellwether for population genomics research" (2001). The 'stochastic models' file relates to the early famous paper by Drs. Till, McCulloch and Siminovitch and contains correspondence and notes, with related papers, between Drs. Till and W. A. O'N. Waugh for the years 1963 to 1967.

B2005-0031

/017 (01) – (06) Growth models – Iceland and privacy legislation 1963-2002

James E. Till Fonds

Series 7: Manuscripts and publications

Textual, graphic, 1954-2005, 0.78 m.

For an overview of the nature of Dr. Till's scientific writings, readers are referred to the biographical sketch at the beginning of this finding aid.

Dr. Till's publications number over two hundred and there are files on most of them in this series. It begins with a file of letters to the editor for the years 1970 to 2002. Dr. Till's articles, chapters in books, and "comments" are arranged chronologically. Included are a few manuscripts for papers that were not published. Researchers interested in a number of collaborative articles with Ernest McCulloch that are missing should consult Dr. McCulloch's personal records, also in the University Archives.

The files contain any combination of research notes, correspondence, drafts, offprints, and other supporting documentation. Internal reports for administrative purposes at the University of Toronto, the Ontario Cancer Institute, and other organizations are not included in this series and few are present elsewhere in this accession.

Photographs used for figures have been retained with the articles to which they pertain.

For a listing of the material in this series, see Appendix 1.

B2005-0031/018 – /023 (01) – (14)

Series 8: Addresses

Textual, graphic, 1965-2003, 0.52 m.

When giving public addresses, Dr. Till often made liberal use of slides, overheads and, latterly, "powerpoint". Some of his presentations consist solely of slides or the paper originals of overheads (the acetate overheads have, for the most part, been disposed of), which served as illustrations for his remarks. Where identified, these have been retained.

The series begins with a number of folders containing a mixture of correspondence about, notes and background information for, and occasional press coverage of, addresses for the years 1965-1982. These are followed by files for approximately 90 addresses (and a few interviews) arranged chronologically, with accompanying correspondence and drafts. Between 1986 and 1994 many of these consist predominantly of slides. While most addresses were given at conferences, seminars, and workshops dealing with various aspects of his research, Dr. Till also gave freely of his time to speak to the broader public. Included is his address to the Royal Society of London, into which he was inducted in 2000.

University of Toronto Archives

James E. Till Fonds

Series 8: Addresses (continued)

For photographs see Series 9

Box	(file)	Description	Date(s)
B2005-0031			
/023	(15) – (18)	Addresses	1965-1982
/024		Addresses	1969-1992
/025		Addresses	1992-1997
/026		Addresses	1997-2002
/027		Addresses	2003

Series 9: Photographs

1910-2007 0.21 metres

201 photographs (colour and b&w); various sizes;47 computer files

Photographs document mainly the professional life of Dr. Till. Included are various portraits and publicity shots taken of Dr. Till throughout his career. There are also photographs relating to his education at the University of Saskatchewan, his association with various organizations including the National Cancer Institute of Canada (NCIC), honours and awards including the Thomas W. Edie Medal (1991) and his honorary degree from the University of Toronto in 2004. Dr. Till attended and participated in many professional conferences and symposiums. Early ones documented here are: NCIC conference in 1954; Congress of Radiation Researchers, Monte Carlo,1968; International Congress of Developmental Biologists, Moscow, 1969. Finally this series includes a few early family photos dated 1910-1950.

File	Description	Dates
B2005-0031/001P		
(01)	Thomas W. Eadie Medal of the Royal Society of Canada removed from /001(06)	
(02)	National Cancer Institute of Canada's Centre for Behavioural Research and Program Evaluation workshop, 'Health sciences research in breast cancer' removed from /001(14)	24 November, 1995
(03)	Alan Forsyth Howaston removed from /003(04)	
(04)	Ernest A. McCulloch removed from /006(02)	

University of Toronto Archives

James E. Till Fonds

File	Description	Dates
B2005-0031/001P cont'd		
(05)	Symposium on Hemopoietic Stem Cells Toronto. Photoprint and slides removed from /006(03)	16-17 May 2001
(06)	participants in the first Canada-US Breast Cancer Advocacy Conference, Geneva Park, Ontario, removed from /007(09)	17-20 November 1996
(07).	Informal photograph of Michael Smith after he received the Nobel Prize in Chemistry removed from box 008(05)	
(08)-(09)	Till family photographs	1910-1958
(10)-(12)	J. E. Till at University of Saskatchewan	1952-1954
(13)	Trip to Cancer conference, NCI/CCS, Honey Harbour, Ontario (first visit to Ontario)	1954
(14)-(17)	J.E.Till portraits	196- - 1978
(20)-(21)	J.E. Till portraits	1988, 1991
(18)-(19)	J.E. Till – at work	1975, 1986, 1988
(22)-(30)	J.E. Till – at events, conferences, award ceremonies	1967-2004
(031)	University of Toronto Convocation. Honorary Degrees in Science to Dr. Till and Dr. McCulloch	June 9, 2004
B2010-0028/001P		
(01)	Gairdner Award 50 th Anniversary Gala. Group photograph	Oct 2009
(02)	NCI. Advisory Committee on Research (1993-1994). Group photograph. Michael Smith holding Nobel Prize in Chemistry. Others identified on back of photograph including Jim Till.	1993
(03)	Congress of International Society of Hematology, Japan. Removed from /001 (03). 4 photographs. Identification back of photos. Includes Jim Till, Ernest McCulloch	Aug. 2000
(04)	University of Toronto Convocation. Honorary Degrees in Science to Dr. Till and Dr. McCulloch. 27 photographs	June 9, 2004
(05) and /001CD /002CD	Albert Lasker Basic Medical Research Award. 5 Formal photographic colour prints and 8 electronic jpg images of Dr. Till and Dr. McCulloch taken by Allan Connor at the Ontario Cancer Institute; 2005 Lasker Awards- Awards Luncheon Photos 39 electronic jpg images (/002CD)	2005
(06)	University of Lethbridge. Honorary Award (DSc): 1 formal portrait of Dr. Till; one group photograph	June 1, 2007
B2010-0028/002P		
(01)	Order of Canada – 1 photograph	1994
(02)	Order of Ontario – group photograph	Dec. 20, 2006

James E. Till Fonds

Appendix 1: Series 7: Manuscripts and publications

Accession No.	(file)	Description	Date(s)
B2005-0031 /018	(01)	Letters to the editor	1970-2002
	(02)	Johns HE, Till JE, Cormack DV, Electron energy distributions produced in water by gamma-rays, <i>Nucleonics</i> , 12(10), 40-6, October 1954	1954
	(03)	Cormack DV, Till JE, Whitmore GF, Johns HE, Measurement of continuous x-ray spectra with a scintillation spectrometer, <i>British Journal of Radiology</i> , 28, 605-609, November 1955	1955
	(04)	Till JE, Pollard E, Cross reaction of deuteron bombarded T1 bacteriophage, <i>Archives of Biochemistry and Biophysics</i> , 63(1), 260-262, July 1956	1956
	(05)	Gwatkin RBL, Till JE, Whitmore GF, Siminovitch L, Graham AF, Multiplication of animal cells in suspension measured by colony counts, <i>Proceedings of the National Academy of Sciences (USA)</i> , 43(6), 451-457, June 1957	1957
	(06)	Till JE, Whitmore GF, Effects of a radiation-induced G2 block on the kinetics of DNA synthesis and cell division in L-cell suspension cultures. Unpublished manuscript	[195-]
	(07)	Till JE [and (?)], Giant cells in X-irradiated animal cell culture, Parts I and II. Unpublished (?) manuscript	[195-]
	(08)	Till JE, Pollard EC, Effects of ionizing radiation on cross-reactivation of T1 bacteriophage, <i>Radiation Research</i> , 8(4), 344-60, April 1958	1958
	(09)	Whitmore GF, Till JE, Gwatkin RBL, Siminovitch L, Graham AF, Increase of cellular constituents in x-irradiated mammalian cells, <i>Biochimica et Biophysica Acta</i> , 30, 583-590, 1958	1958
	(10)	Till, JE, Whitmore GF. Effects of x-rays on mammalian cells in tissue-culture, in <i>Proceedings of the Third Canadian Cancer Conference</i> . New York: Academic Press, Inc, 1959, 415-431	1958- 1959
	(11)	Till JE, McCulloch EA, Hall AED, The Radiation Sensitivity of Mouse Bone Marrow Cells, <i>Radiation Research</i> , 11(3), 118, September 1959. Abstract	1959
	(12)	Stanners CP, Till JE, DNA synthesis in individual L-strain mouse cells, <i>Biochimica et Biophysica Acta</i> , 37, 406-19, 1960	1959-1986
	(13)	McCulloch EA, Till JE, The radiation sensitivity of normal mouse bone marrow cells, determined by quantitative marrow transplantation into irradiated mice, <i>Radiation Research</i> , 13(1), 115-25, Jul 1960. Correspondence	1960-1985

University of Toronto Archives

James E. Till Fonds

Appendix 1: Series 7: Manuscripts and publications

Accession No.	(file)	Description	Date(s)	
B2005-0031 /018	(14)	McCulloch EA, Till JE, The radiation sensitivity of normal mouse bone marrow cells, determined by quantitative marrow transplantation into irradiated mice, <i>Radiation Research</i> , 13(1), 115-25, Jul 1960. Experiments, notes	1958- 1960	
	(15)	McCulloch EA, Till JE, The radiation sensitivity of normal mouse bone marrow cells, determined by quantitative marrow transplantation into irradiated mice, <i>Radiation Research</i> , 13(1), 115-25, Jul 1960. Drafts	1960	
	(16)	Till JE, McCulloch EA, A direct measurement of the radiation sensitivity of normal mouse bone marrow cells, <i>Radiation Research</i> , 14(2), 213-22, Feb 1961	1961, 1992- 2002	
	(17)	Whitmore GF, Stanners CP, Till JE, Gulvas S, Nucleic acid synthesis and the division cycle in x-irradiated L-strain mouse cells, <i>Biochimica et Biophysica Acta</i> , 47, 66-77, 1961	1961	
	(18)	Till JE, Radiosensitivity and chromosome numbers in strain L mouse cells in tissue culture, <i>Radiation Research</i> , 15(3), 400-409, September 1961	1961	
	(19)	Till JE, Radiation effects on the division cycle of mammalian cells in vitro, <i>Annals of the New York Academy of Sciences</i> , 95, Article 2, 911-919, 13 November 1961. Correspondence	1960- 1962	
	(20)	Till JE, Radiation effects on the division cycle of mammalian cells in vitro, <i>Annals of the New York Academy of Sciences</i> , 95, Article 2, 911-919, 13 November 1961. Drafts	1960- 1961	
	(21)	McCulloch EA, Till JE, The sensitivity of cells from normal mouse bone marrow to gamma radiation in vitro and in vivo, <i>Radiation Research</i> , 16(6), 822-32, June 1962	1962	
	(22)	Hunt JW, Till JE, Williams JF, Radiation damage and free radical production in irradiated ribonuclease, <i>Radiation Research</i> , 17(5), 703-711, November 1962	1962	
	(23)	Till JE, McCulloch EA, Early repair processes in marrow cells irradiated and proliferating in vivo, <i>Radiation Research</i> , 18(1), 96-105, January 1963. Correspondence	1962- 1987	
	(24)	Till JE, McCulloch EA, Early repair processes in marrow cells irradiated and proliferating in vivo, <i>Radiation Research</i> , 18(1), 96-105, January 1963. Drafts, photos	1962	
	/019	(01)	Becker AJ, McCulloch EA, Till JE, Cytological demonstration of the clonal nature of spleen colonies derived from transplanted mouse marrow cells, <i>Nature</i> , 197(4866), 452-4, 02 Feb 1963	1963- 2003

University of Toronto Archives

James E. Till Fonds

Appendix 1: Series 7: Manuscripts and publications

Accession No.	(file)	Description	Date(s)
B2005-0031 /019	(02)	Till JE, Whitmore GF, Gulyas S, Deoxyribonucleic acid synthesis in individual L-strain mouse cells, <i>Biochimica et Biophysica Acta</i> , 72, 277-289, 1963	1963, 1983
	(03)	McCulloch EA, Till JE, Repression of colony-forming ability of C57BL hematopoietic cells transplanted into non-isologous hosts, <i>Journal of Cellular and Comparative Physiology</i> , 61(3), 301-8, June 1963	1963
	(04)	Mak S, Till JE, Use of I ¹²⁵ -labeled 5-Iodo-2'-deoxyuridine for the measurement of DNA synthesis in mammalian cells in vitro, <i>Canadian Journal of Biochemistry and Physiology</i> , 41, 2343-2351, 1963	1963, 1989
	(05)	Till JE, Quantitative aspects of radiation lethality at the cellular level, <i>American Journal of Roentgenology Radiation Therapy and Nuclear Medicine</i> , 90(5), 917-926, November 1963	1963
	(06)	Stanners CP, Till JE, Siminovitch L, Studies on the transformation of hamster embryo cells in culture by polyoma virus, <i>Virology</i> , 21(3), 448-463, November 1963	1963
	(07)	Mak S, Till JE, The effects of X-rays on the progress of L-cells through the cell cycle, <i>Radiation Research</i> , 20(4), 600-618, December 1963	1963
	(08)	Siminovitch L, McCulloch EA, Till JE, The distribution of colony-forming cells among spleen colonies, <i>Journal of Cellular and Comparative Physiology</i> , 62(3), 327-36, 01 Dec 1963	1963, 2005
	(09)	Whitmore GF, Till JE, Quantitation of cellular radiobiological responses, <i>Annual Review of Nuclear Science</i> , 14, 347-74, 1964	1964
	(10)	Till JE, McCulloch EA, Siminovitch L, A stochastic model of stem cell proliferation, based on the growth of spleen colony-forming cells, <i>Proceedings of the National Academy of Sciences (USA)</i> , 51(1), 29-36, January 1964	1963- 2003
	(11)	Till JE, McCulloch EA, Repair processes in irradiated mouse hematopoietic tissue, <i>Annals of the New York Academy of Sciences</i> , 114, Article 1, 115-125, 31 March 1964	1964
	(12)	McCulloch EA, Siminovitch L, Till JE, Spleen-colony formation in anemic mice of genotype WW ^v , <i>Science</i> , 144, 844-846, 15 May 1964	1963- 1964
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University of Toronto Archives

James E. Till Fonds

Appendix 1: Series 7: Manuscripts and publications

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	(15)	Till JE, McCulloch EA, Siminovitch L, Isolation of variant cell lines during serial transplantation of hematopoietic cells derived from fetal liver, <i>Journal of the National Cancer Institute</i> , 33(4), 707-720, October 1964	1964- 1967
	(16)	Till JE, McCulloch EA, Siminovitch L, Isolation of variant cell lines during serial transplantation of hematopoietic cells derived from fetal liver, <i>Journal of the National Cancer Institute</i> , 33(4), October 1964, 707-720. Figures and photos for article	1964
	(17)	Williams JF, Till JE, Transformation of rat embryo cells in culture by polyoma virus, <i>Virology</i> , 24(3), 505-508, November 1964,	1964
	(18)	McCulloch EA, Till JE, Siminovitch L, Genetic factors affecting the control of hemopoiesis, in <i>Canadian Cancer Conference</i> , Proceedings of the sixth Canadian Cancer Research Conference, Honey Harbour, Ontario, 1964. New York: Pergamon Press, 1965, 336-356	1965
	(19)	McCulloch EA, Till JE, Siminovitch L, Host-cell interactions in mice bearing isologous hemopoietic grafts, in <i>CNRS Colloque sur la Greffe de Cellules Hématopoïétiques allogéniques, Paris, 7-9 septembre 1964</i> . Paris: Centre National de la Recherche Scientifique, No. 147, 1965, 61-71	1965
	(20)	Siminovitch L, Till JE, McCulloch EA, Radiation responses of hemopoietic colony-forming cells derived from different sources, <i>Radiation Research</i> , 24(3), 482-493, March 1965	1965
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	(22)	Bruchovsky N, Owen A, Becker AJ, Till JE, Effect of vinblastine on the proliferative capacity of L cells and their progress through the division cycle, <i>Cancer Research</i> , 25, 1232-7, September 1965	1965

University of Toronto Archives

James E. Till Fonds

Appendix 1: Series 7: Manuscripts and publications

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	(24)	Becker AJ, McCulloch EA, Siminovitch L, The effect of differing demands for blood cell production on DNA synthesis by hemopoietic colony-forming cells of mice, <i>Blood</i> , 26, 296-308, September 1965	1964- 1965
	(25)	McCulloch EA, Siminovitch L, Till JE, Russell ES, Bernstein SE, The cellular basis of the genetically determined hemopoietic defect in anemic mice of genotype Sl/SI ^d , <i>Blood</i> , 26(4), 399-410, October 1965	1964- 1965
	(26)	Kennedy JC, Siminovitch L, Till JE, McCulloch EA, A transplantation assay for mouse cells responsive to antigenic stimulation by sheep erythrocytes, <i>Proceedings of the Society for Experimental Biology and Medicine</i> , 120(3), 868-73, December 1965. Includes photos	1965- 1966
	(27)	McCulloch EA, Kennedy JC, Siminovitch L, Till JE, Evidence for separate control of haemopoietic and immunologic functions in the mouse, in <i>Studies of the Rheumatoid Diseases: Proceedings of the Third Canadian Conference on Research in the Rheumatic Diseases, Toronto, February 25-27, 1965</i> . Toronto: U of T Press, 1966, 189-197	1966
	(28)	Till JE. Contribution in Peter L. Krohn, ed., <i>Topics in the Biology of Aging: a symposium held at the Salk Institute for Biological Studies, San Diego, California, November 4-6, 1965</i> . New York: Interscience Publishers, 1966	1965- 1966
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	(30)	Thompson MW, McCulloch EA, Siminovitch L, Till JE, The cellular basis for the defect in haemopoiesis in flexed-tailed mice. I. The nature and persistence of the defect, <i>British Journal of Haematology</i> , 12(2), 152-60, March 1966	1965- 1966

University of Toronto Archives

James E. Till Fonds

Appendix 1: Series 7: Manuscripts and publications

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	(32)	Kennedy JC, Till JE, Siminovitch L, McCulloch EA, The proliferative capacity of antigen-sensitive precursors of hemolytic plaque-forming cells, <i>Journal of Immunology</i> , 96(6), 973-80, June 1966	1965- 1967
	(33)	Siminovitch L, Till JE, McCulloch EA, 'The effect of extended proliferation on the doubling-time of normal haemopoietic spleen-colony forming cells'. Draft #1, 30 June 1966	1966
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	(02)	Fowler JH, McCulloch EA, Till JE, Siminovitch L, An improved method for radioautography of erythropoietic cells labeled with Fe ⁵⁵ or Fe ⁵⁹ , <i>Journal of Laboratory and Clinical Medicine</i> , 68(3), 523-530, September 1966	1966
	(03)	Williams JF, Till JE, The radiation sensitivity of normal and polyama-transformed rat embryo cells, <i>Radiation Research</i> , 29(2), 282-294, October 1966	1966
	(04)	Till JE, Siminovitch L, McCulloch EA, The effect of plethora on growth and differentiation if normal hemopoietic colony-forming cells transplanted in mice of genotype W/W ^p , <i>Blood</i> , 29(1), 102-113, January 1967	1967
	(05)	Whitmore GF, Till JE, Gulyas S, Radiation-induced mitotic delay in L cells, <i>Radiation Research</i> , 30(1), 155-171, January 1967	1967
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James E. Till Fonds

Appendix 1: Series 7: Manuscripts and publications

Accession No.	(file)	Description	Date(s)
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	(09)	Fowler JH, Till JE, McCulloch EA, Siminovitch L, The cellular basis for the defect in haemopoiesis in flex-tailed mice. II. The specificity of the defect for erythropoiesis, <i>British Journal of Haematology</i> , 13(2), 256-264, March 1967	1967
	(10)	Wu AM, Till JE, Siminovitch L, McCulloch EA, A cytological study of the capacity for differentiation of normal hemopoietic colony-forming cells, <i>Journal of Cellular Physiology</i> , 69(2), 177-84, April 1967	1966-1967
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	(12)	Senn JS, McCulloch EA, Till JE, Comparison of colony-forming ability of normal and leukaemic human marrow in cell culture, <i>Lancet</i> , 2(7516), 597-8, 16 September 1967	1967
	(13)	Till JE, McCulloch EA, Phillips RA, Siminovitch L, Aspects of the regulation of stem cell function, in <i>The Proliferation and Spread of Neoplastic Cells</i> , Proceeding of the twenty-first annual Symposium on Fundamental Cancer Research, Houston, Texas, 1967, 235-245	1967
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	(16)	Till JE, Prospects in the study of stem-cell kinetics, in <i>Effects of Radiation on Cellular Proliferation and Differentiation</i> , Vienna: International Atomic Energy Agency, 1968, 117-125	1968
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University of Toronto Archives

James E. Till Fonds

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	(19)	Brunette DM, McCulloch EA, Till JE, Fractionation of suspensions of mouse spleen cells by counter current distribution, <i>Cell and Tissue Kinetics</i> , 1(4), 319-327, October 1968	1968
	(20)	Till JE, Growth and differentiation of mammalian cells, for Volume III of <i>Theoretical and Experimental Biophysics</i> , ed. Arthur Cole. (Manuscript submitted but project abandoned.) Correspondence re	1967- 1974
	(21)	Till JE, Review article for book commemorating 100 th anniversary of the University of California at Berkeley. Unpublished	1967, 1984
	(22)	Worton RG, McCulloch EA, Till JE, Physical separation of hemopoietic stem cells differing in their capacity for self-renewal, <i>Journal of Experimental Medicine</i> , 130(1), 91-103, 1 July 1969	1969
	(23)	Worton RG, McCulloch EA, Till JE, Physical separation of hemopoietic stem cells from cells forming colonies in culture, <i>Journal of Cellular Physiology</i> , 74(2), 171-82, October 1969	1969
	(24)	McCulloch EA, Till JE, Cellular interactions in the control of hemopoiesis, in Frederick Stohlman, ed., <i>Hemopoietic Cellular Proliferation</i> , New York: Grune & Stratton, Inc., 1970, 15-25	1970
	(25)	McCulloch EA, Thompson MW, Siminovitch L, Till JE, Effects of bacterial endotoxin on hemopoietic colony-forming cells in the spleens of normal mice and mice of genotype S1/S1 ^d , <i>Cell and Tissue Kinetics</i> , 3(1), 47-54, January 1970	1970
	(26)	Iscove NN, Till JE, McCulloch EA, The proliferative states of mouse granulopoietic progenitor cells, <i>Proceedings of the Society for Experimental Biology and Medicine</i> , 134(1), 33-6, May 1970	1970
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	(28)	Thompson LH, Mankovitz R, Baker RM, Till JE, Siminovitch L, Whitmore GF, Isolation of temperature-sensitive mutants of L-cells, <i>Proceedings of the National Academy of Sciences (USA)</i> , 66(2), 377-84, June 1970	1970

University of Toronto Archives

James E. Till Fonds

Appendix 1: Series 7: Manuscripts and publications

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	(30)	McCulloch EA, Till JE, Effects of short-term culture on populations of hemopoietic progenitor cells from mouse marrow, <i>Cell and Tissue Kinetics</i> , 4(1), 11-20, January 1971	1971
	(31)	Iscove NN, Senn JS, Till JE, McCulloch EA, Colony formation by normal and leukemic human marrow cells in culture: effect of conditioned medium from human leukocytes, <i>Blood</i> , 37(1), 1-5, January 1971	1971
	(32)	Austin PE, McCulloch EA, Till JE, Characterization of the factor in L-cell conditioned medium capable of stimulating colony formation by mouse marrow cells in culture, <i>Journal of Cellular Physiology</i> , 77(2), 121-34, April 1971	1971
	(33)	Brunette DM, Till JE, A rapid method for the isolation of L-cell surface membranes using aqueous two-phase polymer system, <i>Journal of Membrane Biology</i> , 5, 215-24, 1971	1971- 1976
	(34)	Sutherland DJ, Till JE, McCulloch EA, Short-term cultures of mouse marrow cells separated by velocity sedimentation, <i>Cell and Tissue Kinetics</i> , 4(5), 479-90, September 1971	1971
	(35)	Thompson LH, Mankovitz R, Baker RM, Wright JA, Till JE, Siminovitch L, Whitmore GF, Selective and nonselective isolation of temperature-sensitive mutants of mouse L-cells and their characterization, <i>Journal of Cellular Physiology</i> , 78(3), 431-40, December 1971	1971
	(36)	McCulloch EA, Till JE, Regulatory mechanisms acting on hemopoietic stem cells: some clinical implications, <i>American Journal of Pathology</i> , 65(3), 601-619, December 1971	1971- 1973
	(37)	McCulloch EA, Till JE, Leukemia considered as defective differentiation: complementary in vivo and culture methods applied to the clinical problem, in <i>The Nature of Leukemia</i> , Sydney, NSW: Government Printer, 1972, 119-134	1972
	(38)	Siminovitch L, Thompson LH, Mankovitz R, Baker RM, Wright JA, Till JE, Whitmore GF, The isolation and characterization of mutants of somatic cells, in <i>Proceedings of the Ninth Canadian Cancer Conference</i> , Toronto: University of Toronto Press, 1972, 59-75.	1972
	(39)	Till JE, Overlap error in splenic colonies, <i>Series Haematologica</i> , 5(2), 5-14, 1972	1972

James E. Till Fonds

Appendix 1: Series 7: Manuscripts and publications

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	(41)	Till JE, McCulloch EA, The 'f-factor' of the spleen-colony assay for hemopoietic stem cells, <i>Series Haematologica</i> , 5(2), 15-21, 1972	1972
	(42)	Iscove NN, Messmer H, Till JE, McCulloch EA, Human marrow cells forming colonies in culture: analysis by velocity sedimentation and suspension culture, <i>Series Haematologica</i> , 5(2), 37-49, 1972	1972
	(43)	Austin PE, McCulloch EA, Till JE, Simulation of uptake of tritiated thymidine into mouse marrow cells in culture by a factor from L-cell conditioned medium, <i>Journal of Cellular Physiology</i> , 79(2), 181-188, April 1972	1972
	(44)	Till JE, How the Senate report proposals would affect life sciences in Canada, <i>Science Forum</i> , 26, 11-13, April 1972	1972
	(45)	Aye MT, Till JE, McCulloch EA, Growth of leukemic cells in culture, <i>Blood</i> , 40(6), 806-811, December 1972	1972
	(46)	McCulloch EA, Gregory CJ, Till JE, Cellular communication early in haemopoietic differentiation, in <i>Haemopoietic Stem Cells</i> , Amsterdam: ASP, 1973, 183-204	1973
	(47)	Till JE, Baker RM, Brunette DM, Ling V, Thompson LH, Wright JA, Genetic regulation of membrane function in mammalian cells in culture, <i>Federation Proceedings</i> , 32(1), 29-33, January 1973	1973
	(48)	Korn AP, Henkelman RM, Ottensmeyer FP, Till JE, Investigations of a stochastic model of haemopoiesis, <i>Experimental Hematology</i> , 1(6), 362-75, 1973	1973
	(49)	Gregory CJ, McCulloch EA, Till JE, Erythropoietic progenitors capable of colony formation in culture: state of differentiation, <i>Journal of Cellular Physiology</i> , 81(3), 411-20, June 1973	1973
	(50)	Price GB, McCulloch EA, Till JE, A new human low molecular weight granulocyte colony stimulating activity, <i>Blood</i> , 42(3), 341-348, September 1973	1973
(51)	Messner HA, Till JE, McCulloch EA, Interacting cell populations affecting granulopoietic colony formation by normal and leukemic human marrow cells, <i>Blood</i> , 42(5), 701-710, November 1973	1973	

University of Toronto Archives

James E. Till Fonds

Appendix 1: Series 7: Manuscripts and publications

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	(53)	Baker RM, Brunette DM, Mankovitz R, Thompson LH, Whitmore GF, Siminovitch L, Till JE, Ouabain-resistant mutants of mouse and hamster cells in culture, <i>Cell</i> , 1(1), 9-21, January 1974	1974
	(54)	McCulloch EA, Mak TW, Price GB, Till JE, Organization and communication in populations of normal and leukemic hemopoietic cells, <i>Biochimica et Biophysica Acta</i> , 355, 260-299, 1974	1974
	(55)	See YP, Carlsen SA, Till JE, Ling V., Increased drug permeability in Chinese hamster ovary cells in the presence of cyanide, <i>Biochimica et Biophysica Acta</i> , 373, 242-252, 1974	1974
	(56)	Aye MT, Till JE, McCulloch EA, Cytological studies of colonies in culture derived from the peripheral blood cells of two patients with acute leukemia, <i>Experimental Hematology</i> , 2(6), 362-71, 1974	1974
	(57)	Aye MT, Niho Y, Till JE, McCulloch EA, Studies of leukemic cell populations in culture, <i>Blood</i> , 44(2), 205-219, August 1974	1974
	(58)	Gregory CJ, Tepperman AD, McCulloch AE, Till JE, Erythropoietic progenitors capable of colony formation in culture: resource of normal and genetically anemic W/W ^u mice to manipulations of the erythron, <i>Journal of Cellular Physiology</i> , 84(1), 1-12, August 1974	1973- 1974
	(59)	Mak, TW, Aye MT, Messner H, Sheinin R, Till JE, McCulloch EA, Reverse transcriptase activity: increase in marrow cultures from leukemic patients in relapse and remission, <i>British Journal of Cancer</i> , 29 (1974), 433-437	1974
	(60)	Mak TW, Manaster J, Howatson AF, McCulloch AE, Till JE, Particles with characteristics of leukoviruses in cultures of marrow cells from leukemic patients in remission and relapse, <i>Proceedings of the National Academy of Science USA</i> , 71(11), 4366-4340, November 1974	1974
	(61)	Price GB, Senn JS, McCulloch EA, Till JE, Heterogeneity of molecules with low molecular weight isolated from media conditioned by human leukocytes and capable of stimulating colony formation by human granulopoietic progenitor cells, <i>Journal of Cellular Physiology</i> , 84(3), 383-396, December 1974	1974

University of Toronto Archives

James E. Till Fonds

Appendix 1: Series 7: Manuscripts and publications

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	(02)	Till JE, Bruce WR, Elwan A, Till MJ, Niederer J, Reid J, Hawkins NV, Rider WD, A preliminary analysis of end results for cancer of the larynx, <i>Laryngoscope</i> , 85(2), 259-75, February 1975	1975, 1985
	(03)	Aye MT, Till JE, McCulloch EA, Interacting populations affecting proliferation of leukemic cells in culture, <i>Blood</i> , 45, 4, 485-493, April 1975	1975
	(04)	Price, GB, McCulloch EA, Till JE, Cell membranes as sources of granulocyte colony stimulating activity, <i>Experimental Hematology</i> , 3, 227-233, 1975	1974- 1975
	(05)	Niho Y, Till JE, McCulloch EA, Granulopoietic progenitors in suspension culture: a comparison of stimulatory cells and conditioned media, <i>Blood</i> , 45(6), 811-21, June 1975	1975
	(06)	Till JE, Mak TW, Price GB, Senn JS, McCulloch EA, Cellular and molecular approaches to the study of myeloproliferative disorders. Dahlem Workshop on Myelofibrosis-Osteosclerosis Syndrome. R Burkhardt, CL Conley and K Lennert, eds., <i>Advances in Biosciences 16</i> , New York: Pergamon Press, 1975, 57-75	1975
	(07)	Price GB, Senn JS, McCulloch EA, Till JE, The isolation and properties of granulocytic colony stimulating activities from medium conditioned by human peripheral leukocytes, <i>Biochemistry Journal</i> , 148, 209-217, 1975	1975
	(08)	Gregory CJ, McCulloch EA, Till JE, Transient erythropoietic spleen colonies: effects of erythropoietin in normal and genetically anemic W/W ^o mice, <i>Journal of Cellular Physiology</i> , 86(1), 1-8, August 1975	1975
	(09)	Till JE, Price GB, Mak TW, McCulloch EA, Regulation of blood cell differentiation, <i>Federation Proceedings</i> , 34(13), 2279-84, December 1975	1975
	(10)	Gregory CJ, McCulloch EA, Till JE, The cellular basis for the defect in haemopoiesis in flex-tailed mice. III: Restriction of the defect to erythropoietic progenitors capable of transient colony formation in vivo, <i>British Journal of Haematology</i> , 30, 401-410, 1975	1975
	(11)	Till JE, Regulation of hemopoietic stem cells, in AB Cairnie, PK Lala and DG Oxmond, <i>Stem Cells of Renewing Cell Populations</i> , New York: Academic Pres, 1976, 143-155	1976, 2000

James E. Till Fonds

Appendix 1: Series 7: Manuscripts and publications

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	(13)	Till JE, Mak TW, Price GB, Senn JS, McCulloch EA, Cellular subclasses in human leukemic hemopoiesis, in R Neth, RC Gallo, K Manweiler and WC Moloney, eds., <i>Modern Trends in Human Leukemia II</i> , Munich: Lehmanns Verlag, 1976, 33-45	1976
	(14)	Niederer J, Hawkins NV, Rider WD, Till JE, Failure analysis of radical radiation therapy of supraglottic laryngeal carcinoma, <i>International Journal of Radiation Oncology Biological Physics</i> , 2, 621-629, 1976	1976-1977
	(15)	Bech-Hansen NT, Till JE, Ling V, Pleiotropic phenotype of colchicine-resistant CHO cells: cross-resistance and collateral sensitivity, <i>Journal of Cellular Physiology</i> , 88(1), 23-31, May 1976	1976
	(16)	Carlsen SA, Till JE, Ling V, Modulation of membrane drug permeability in Chinese hamster ovary cells, <i>Biochimica et Biophysica Acta</i> , 455, 900-912, 1976	1976
	(17)	Price GB, McCulloch EA, Till JE, Cross-reactivity of human β -1-microglobulin with human granulocyte colony stimulating activity, <i>Journal of Immunology</i> , 117, 416-418, August 1976	1976
	(18)	Louie S, Curtis JE, Till JE, McCulloch EA, Antibodies in human sera to oncornavirus-like proteins from normal or leukemic marrow cell structures, <i>Journal of Experimental Medicine</i> , 144, 1243-1253, 1976	1976
	(19)	Entries for <i>Current Comments</i>	1977-1981
	(20)	Till JE, Price GB, Senn JS, McCulloch EA, Cell interactions in the control of hemopoiesis, in B. Drewinko and RM Humphrey, eds., <i>Growth Kinetics and Biochemical Regulation of Normal and Malignant Cells</i> , University of Texas System Cancer Centre M. D. Anderson Hospital and Tumor Institute 29 th Annual Symposium on Fundamental Cancer Research, 1976), Baltimore: Williams and Wilkins Co., 1977, 223-235	1977
	(21)	Till JE, Recognition of hemopoietic progenitors, <i>Experimental Hematology Today</i> , 89-91, 1977	1977
	(22)	McCulloch EA, Till JE, Interacting cell populations in cultures of leukocytes from normal or leukemic peripheral blood, <i>Blood</i> , 49, 269-280, February 1977	1977

James E. Till Fonds

Appendix 1: Series 7: Manuscripts and publications

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	(24)	McCulloch EA, Till JE, Stem cells in normal early haemopoiesis and certain clonal haemopathies, in AV Hoffbrand, MC Brain and J Hirsh, <i>Recent Advances in Haematology</i> , No. 2. London: Churchill Livingstone, 1977, 85-110	1977
	(25)	Carlsen SV, Till JE, Ling V, Modulation of drug permeability in Chinese hamster ovary cells. Possible role for phosphorylation of surface glycoproteins, <i>Biochimica Et Biophysica Acta</i> , 467(2), 238-50, June 1977	1977
	(26)	Till JE, Price GB, Lan S, McCulloch EA, Factors affecting the differentiation of blood cells, in <i>Molecular Control of Proliferation and Differentiation</i> , Proceedings of the 35 th Symposium of the Society of Developmental Biology, New York: Academic Press, 1977, 133-147	1977
	(27)	Niederer J, Till JE, How can different prescribed doses give the same recurrence rate? [letter], <i>British Journal of Radiology</i> , 50, No. 599, 842, 1977	1977
	(28)	McCulloch EA, Buick RN, Lan S, Till JE, Differentiation in human myeloblastic leukemia studied in cell culture, <i>American Journal of Pathology</i> , 89(2), 449-457, November 1977	1977
	(29)	Lau L, McCulloch EA, Till JE, Price GB, The production of hemopoietic growth factors by PHA-stimulated leukocytes, <i>Experimental Hematology</i> , 6, 114-121, 1978	1978
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University of Toronto Archives

James E. Till Fonds

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	(37)	Till JE, Boyd NF, Ciampi A, Llewellyn-Thomas H, Silberfeld M, Quantitation of the quality of life: current status, in <i>Cancer in Ontario 1980</i> . Toronto: Ontario Cancer Treatment and Research Foundation, 1980, 27-31	1980- 1981
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University of Toronto Archives

James E. Till Fonds

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University of Toronto Archives

James E. Till Fonds

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University of Toronto Archives

James E. Till Fonds

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University of Toronto Archives

James E. Till Fonds

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University of Toronto Archives

James E. Till Fonds

Appendix 1: Series 7: Manuscripts and publications

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James E. Till Fonds

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James E. Till Fonds

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University of Toronto Archives

James E. Till Fonds

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	(13)	Till JE, Tritthler DL, What might Tonga learn from Iceland?, in James V. Lavery, <i>et al.</i> , <i>Ethical Issues in International Biomedical Research: A case book</i> . New York, Oxford University Press, 2005. Background files, notes, correspondence	1999-2002
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