

Francis C. Monette-----Curriculum Vitae

02/13

Personal: Born: August 9, 1941, Lowell Massachusetts
Married: April 20, 1968 to Yvonne A. Belanger
Children: Daughter, Michelle Y. (05-21-78)
Son, Timothy K. (05-30-83)

Education: 1968-1971 **Postdoctoral**, Tufts University School of Medicine, Boston, MA
(Hematopoietic Stem Cell Biology)
1968 **Ph.D.**, New York University, New York (Cell Biology & Physiology)
1965 **M.S.**, New York University, New York (Cell Biology & Physiology)
1962 **A.B.**, St. Anselm College, Manchester, NH (Biology & Chemistry)

Professional Experience:

1982-present Professor of Biology, Boston University
1977-1981 Associate Professor of Biology, Boston University (Tenured, 1977)
1971-1976 Assistant Professor of Biology, Boston University
1968-1971 Postdoctoral Fellow, U.S.P.H.S., Tufts Medical School & St. Elizabeth's
Hospital of Boston, Brighton, MA
1965-1967 Lecturer in Biology, Iona College, New Rochelle, New York
1964-1968 U.S.P.H.S. Predoctoral Trainee (Advisors: A.S.Gordon & J. LoBue)
New York University
1962-1964 Teaching Fellow, Department of Biology, New York University

Honors:

- Nominee, Metcalf Award for Excellence in Teaching, Boston University, 2001, 2002, 2004, 2005, 2006, 2007, 2008, 2009
2006 Semifinalist, Metcalf Award for Excellence in Teaching, Boston University
- Alumni Hall of Fame, Chelmsford High School, Chelmsford, MA, 2005
- U.S.P.H.S., N.I.H., Career Development Awardee, 1977-1982
- Editorial Board member, *Experimental Hematology*, 1983-1986; 1990-1993
- National Institutes of Health Review Boards:
 - Special Projects Review Panel for Extramural Affairs (NHLBI), 1984;1987;1989;1991;1993-1995
 - Hematology Study Section (Requests for Applications Program) Member: 1988;1989;1990;1992;1993;1995; Invited: 2001
- National Science Foundation Review Board:
 - Developmental Biology, 1982; 1984; 1986;1989; 1990;
 - Division of Industrial Science & Technological Innovation, 1988
- Consultant, American Institute of Biological Sciences, Washington DC
- Consultant, Biomedical Research Foundation, Washington DC
- Consultant, Veterans Administration, Division of Research Grants, 1988-1990; 1992-1995
- Consultant, Educational Testing Service, Princeton, NJ, 1985 to the present

- Regional Coordinator for the AP Biology Compatibility Examination in Biology, Educational Testing Service, April, 2008
- Inductee Golden Anselmian, St. Anselm College, (2012) Manchester, NH

Other Interests: Collector/dealer Ethnographic Art; American Indian Art and artifacts; Art and Antiques; Horticulture; Numismatics; American political items; Nature; Classical Music and Opera; National and International Travel

Membership and Philanthropic Activities:

- National Museum of the American Indian: Charter Member; National Honor Role, Smithsonian Museums, Washington, DC
- Museum of Fine Arts, Boston, Patron member
- New England Aquarium, Boston
- Museum of Science, Boston
- Huntington Theater at Boston University

Professional Affiliations:

- American Association for the Advancement of Science, 1968 to present
- American Society of Hematology, 1968 to present
- International Society for Experimental Hematology (Founding Member) 1971 to present
- American Society for Cell Biology, 1975 to present
- American Physiological Society, 1970-1995
- Society of the Sigma Xi, 1965 to present
- Tissue Culture Association, 1972-1995

Editorial Boards/Journal Affiliations:

- Editorial Board, *Experimental Hematology*, 1983-1986; 1990-1993
- *Ad Hoc* Journal Manuscript Reviewer for:
 - Experimental Hematology
 - Leukemia Research
 - Blood, The Journal of Hematology
 - Radiation Research
 - Leukemia
 - Cell and Tissue Kinetics (now: Cell Proliferation)
 - Science
 - Proceedings of the National Academy of Sciences
 - Journal of College Science Teaching
 - International Journal of Cell Cloning (now: Stem Cells)
 - The Journal of Leukocyte Biology
 - American Journal of Physiology
 - The American Journal of Hematology
 - Kidney International

- *Ad Hoc* Reviewer for publishers:
 - Academic Press, Inc.
 - Williams & Wilkins, Inc.
 - John Wiley Sons, Inc.
 - Scientific American Books
 - Little, Brown and Company
 - Holbrook Press, Inc.
 - Cummings Publishing Company, Inc.
 - Canfield Press
 - Worth Publishers, Inc.
 - Harper & Row, Publishers, Inc.
 - Sinauer Associates. Publishers
 - W.H. Freeman & Company.

Who's Who Listings:

- Who's Who in Science & Engineering, 1st Edition
- International Who's Who of Professionals
- American Men & Women of Science, 21st Edition
- Who's Who in the East, 24th Edition
- Two Thousand Notable Americans
- Personalities of America, 4th Edition
- Men of Achievement
- The International Directory of Distinguished Leadership, 1st Edition
- Who's Who in American Education
- Who's Who in Frontiers of Science & Technology
- Who's Who in America
- International Who's Who in Medicine, 1st Edition
- Who's Who in Medicine & Health Care, 2nd Edition

Teaching: Current Courses (2012-2013)

Fall

- BI446/646 Biology of the Cell Cycle (conceived and taught by me since 1980 to upper-level Biology and Biochemistry & Molecular Biology majors, as well as graduate students) (Tu 11:00 – 12:20, BRB 122; Th 11:00-2:00, BRB 122) (100% responsibility) (enrollment ranges from 8 to about 22 students per semester)

Spring

- BI108A1 Biology II (MWF 10:00 – 10:50, MORSE 101)
- BI108A2 Biology II (MWF 12:00 – 12:50, SCI 107)
- BI108A3 Biology II (MWF 2:00 – 2:50), MORSE 101
(66% responsibility for each section)- 100% Jan, -Feb & March) [enrollment is about 220 each session or about 660 for all of the above]
- Faculty Coordinator, Biology II (BI108) (100% responsibility)
- BI699M2 Teaching College Biology (8-10 graduate students/Teaching Fellows for BI108)

Summer Term:

- Summer Term I Teaching: BI203A1 Cell Biology (MWF 9:00 – 12:30) (100% responsibility) [about 45 students, mostly seniors and juniors]

Teaching: Previous Courses Taught

- BI203 Cell Biology
- BI281 Fundamentals of Biology (coordinator and lecturer) (6-Year Medical Education Program)
- BI106 Human Anatomy
- BI548 Blood Cell Physiology (designed course)
- BI555 Techniques in Cell Biology (helped designed half of this all-laboratory course for senior Biology majors and graduate students)

Research Courses

- BI491-492 Undergraduate Research in Biology
- BI401-402 Senior Independent Work in Biology (for Distinction)
- BI702 Readings in Biology
- BI926 Research in Cell Biology
- BI928 Research in Biochemistry

Current Committee Memberships and Administrative Responsibilities

Department:

- Frank A. Belamarich Award Committee (Chairperson) for selecting the outstanding doctoral dissertation in Biology (since 1979)
- Faculty Advisor, Student-2-Student peer tutor program (Biology Department)

College:

- Pre-professional Committee Student Evaluations (medical & graduate schools)
- MMEDIC Program Student Evaluations
- Commencement Exercises (participant, All-University, Biology Department, and BMB Program)

Previous Committee Memberships and Administrative Responsibilities

University:

- Chairman, Institutional Animal Care & Use Committee (1985 to 2006)
 - Organizer, monthly meetings for Charles River Campus (CRC) review of all animal use in research and teaching
 - Overview of Veterinary Care Program and Occupational Health services for the CRC
 - Organizer, semi-annual training session for animal users
 - Organizer, semi-annual review and inspection of animal use programs and facilities

- Overview of Laboratory Animal Care Facility (LACF) operations
- Overview of IACUC Coordinator responsibilities
- University representative, biyearly PRIM&R (Public Responsibility in Medicine Research) conference and PHS/OPRR Conference on Animal Research Use Issues
- Co-Author of CRC-IACUC web page on animal use (URL: www.bu.edu/animal)

- Commencement Exercises (participant, All-University, Biology Department, and BMB Program)

College:

- CAS/GRS Natural Science Curriculum Committee
- Summer Orientation Faculty Advising
- Pre-professional Committee Student Evaluations
- Participant, Dean's Workshop on the First Year College Experience,

Department:

- Chair, Belamarich Award Committee (for the outstanding doctoral dissertation in the Department of Biology; organizer & presenter for annual award ceremony and reception) (1979 to the present)
- Curriculum Committee, Member
- Commencement Exercises (Biology Department; Program in Biochemistry and Molecular Biology; Biotechnology)

Previous Committee and Administrative Responsibilities

- Member, University Promotion & Tenure (UPT) Committee (1998-99 & 1999-2000)
- Co-author (with Joan Kirkendall) University Assurance for animal care and use on the CRC, OPRR-OLAW/NIH (1985)
- Coordinator, Undergraduate Honors Committee, Department of Biology (1986-1989)
- Member, Promotion & Tenure (APT) Committee, College of Arts & Sciences 1979-1980
- Coordinator, Biology Curriculum, Six-Year Medical Education Program (1971-1979)
- Member, Executive Council, Six-Year Medical Education Program, 1975-1979
- Member, Promotion Committee, Six-Year Medical Education Program, 1971-1979

Current Service:

- Manuscript Reviewer for eight chapters in the new 9th edition of Sadava, Hillis, Heller, Berenbaum, *Life: The Science of Biology*, W. H. Freeman & Co.,/ Sinauer Associates, Inc.
- Invited Reviewer for proposed new edition of David O. Morgan's: *The Cell Cycle: Principles of Control*, New Science Press, Ltd., Sinauer Associates, Inc.

Research Interests:

Regulation of eukaryotic cell proliferation and differentiation with emphasis on murine hematopoiesis and stem cell function; serum-free culture systems for hematopoietic stem cells; biology of the eukaryotic cell cycle from yeast to mammals.

Scholarly Project: Authoring an advanced monograph in cell biology entitled: *Cell Cycle Biology* for Blackwell Science Publishers, Boston and New York. Chapters completed (and peer-reviewed) as of September, 2012:

- Introduction and Overview
- DNA Labeling and Cell Cycle Analysis
- Classification of Cell Populations in Metazoans
- Cell Synchrony
- Fluorescent-Activated Cell Sorting (FACS) Analysis of the Cell Cycle
- Insights into Cell Cycle Regulation via Cell Fusion
- Cell Cycle Genes: The Yeast Models

The above serves as a partial text for BI446/646 (Biology of the Cell Cycle)

Recent Research Committee Memberships:

- **Gerta Hoxhaj**, “Biological significance of erythropoietin receptor expression in PC-3 human prostate cancer cell line.” (with Laurie Feldman, Beth Israel Deaconess, Harvard Medical School)

- **John Romano**, “The role of bombesin-like peptides in the proliferation, migration and invasion of gastrointestinal cancer cells.” (with Christian Weber, Boston University School of Medicine)

- **Daniel Bastian**, “Determination of CLN3 promoter activity in primary neurons.” (with Gregory Tullis, Boston University School of Medicine)

- **Katrina Weed**, “Comparative Analysis of cerebellar neuropathology in human autistic patients and cerebellar mutant mice.” (with Dr. Margaret Bauman, Boston University School of Medicine)

Graduate Students:

2000 (Ph.D.) Jeanne M. Kotelly, “Bovine serum albumin and lipids in serum-free culture of murine multipotential hematopoietic stem cells.”

1999 (Ph.D.) Deming Wang, “Nitric oxide modulation of angiotensin II signaling pathways in rat cardiac fibroblasts.”

1996 (Ph.D.) Lisa Fitzgerald, “Roles of stem cell factor (c-kit ligand) and Interleukin-6 on murine hematopoiesis in serum-free bone marrow cell cultures.”

1996 (M.S.) Jeanne M. Kotelly, “Role of defined lipids in murine marrow-derived stem cell cultures.”

1995 (M.S.) Tony Puopolo, “The regulation and function of the heat shock 70 protein (hsp) family in the heat shock response.”

- 1992 (M.S.) Eain Murphy**, “Signal transduction in hematopoietic cells in response to colony stimulating factors.”
- 1990 (M.S.) Evelyn Flynn**, “Recovery of CFU-GM in bone marrow of mice following multiple doses of hydroxyurea.”
- 1989 (M.S.) Daqing Wu** “Serum-free culture of multipotent hematopoietic stem cells.”
- 1989 (M.S.) Richard Hartwell** “Recovery of the hematopoietic progenitors CFU-s (day 12), CFU-GEMM (day 12), and CFU-E after 5 daily doses of the cytotoxic drug hydroxyurea.”
- 1989 (M.S.) Patrick Bilbow** “The effects of the cytotoxic drug busulphan on the hemopoietic system.”
- 1989 (M.S.) David Mansour** “The role of the microenvironment in hemopoiesis.”
- 1987 (Ph.D.) George Sigounas** “Effects of interleukin-3, erythropoietin, and hemin on the proliferation and differentiation of multipotent hemopoietic stem cells grown in various semi-solid culture systems.”
- 1983 (Ph.D.) Peter Faletta Jr.** “Aging in mice is accompanied by a defect in hemopoiesis.”
- 1983 (Ph.D.) Sylvia A. Holden** “Regulation of erythropoiesis by hemin.”
- 1981 (Ph.D.) Edward J. Weiner** “Proliferation kinetics of primitive murine marrow erythroid progenitors: A comparison of erythropoietin responsiveness assayed in vivo and in vitro.”
- 1979 (M.S.) Patricia L. Ouellette** “Characterization of late murine erythroid progenitor cells assayed in microplasma clot cultures.”
- 1978 (M.S.) Raymond F. Jarris, Jr.** “Regeneration of late murine erythroid precursors following sublethal irradiation.”
- 1978 (Ph.D.) Bernadette A. Houghton** “Cell yield fluctuations in human fibroblast monolayer culture: A phenomenon of growth regulation.”
- 1977 (M.S.) John B. DeMello** “Relationship between the seeding efficiency of pluripotential stem cells and their position in cell cycle.”
- 1977 (M.S.) Rachel B. Kent** “Cell-cycle kinetics of murine erythroid progenitors.”
- 1977 (M.S.) Edward J. Weiner** “The proliferation kinetics of murine erythroid progenitor cells.”
- 1976 (M.S.) Randy D. Zelick** “Enhancement of erythropoiesis in vitro by 2-mercaptoethanol.”
- 1975 (M.S.) Marilyn Szymialis** “In vitro culture of erythroid colonies.”

Symposium Organization & Chairmanships:

- 1989: Boston University Symposium on the Biology of Hematopoietic Stem Cells, October, 1989 (Organizer and Symposium Chairman)
- 1986: Session Chairman for “Hematopoietic Growth Factors,” Annual meeting, International Society for Experimental Hematology, Buffalo, NY
- 1984: Session Co-chairman for “Thymic and lymphocyte control of proliferation, differentiation and migration of haemopoietic stem cells,” International Symposium on “Stromal and T-cell regulation of haemopoietic stem cells, Moscow, U.S.S.R., the U.S.S.R. Academy of Sciences

- 1982: Session Chairman for “Erythropoiesis,” Annual meeting, International Society for Experimental Hematology, Baltimore, MD

Invited Scholarly Papers/Lectures (since 1984):

- 1984** -Moscow, U.S.S.R.: “The modulation of stem cell self-renewal by murine thymocytes,” International Symposium on Stromal and T-cell Regulation of Haemopoietic Stem Cells, U.S.S.R. Academy of Sciences
 -Brussels, Belgium: “Hemin: Its role in erythropoietic cell differentiation,” Catholic University of Louvain, School of Medicine Colloquium
 -Villejuif, France: “Hematopoietic stem cell growth factors,” Institute Gustave-Roussy, Hematology Colloquium
 -Paris, France: “Proliferation of hematopoietic stem cells in culture,” International Symposium on the Regulatory Mechanisms in Hematopoiesis, Institute of Cellular Pathology
 -Atlanta, GA: “Growth requirements and properties of pluripotent stem cells assayed in vitro,” Annual meeting, International Society for Experimental Hematology
 -Atlanta, GA: “Augmentation of stem cell self-renewal by syngenic thymocytes,” Annual meeting, International Society for Experimental Hematology
- 1986**
 -Providence, RI: “Effects of interleukin-3 and hemin on stem cell proliferation and differentiation,” Brown University, School of Medicine Colloquium
 -San Francisco, CA: “Growth of murine pluripotent stem cells (CFU-GEMM) in a simple “serum-free” culture system: Basic requirement for interleukin-3, erythropoietin, and hemin,” Annual meeting, American Society of Hematology
 - Buffalo, NY: “Both interleukin-3 and hemin are required for the ‘optimal’ clonal growth of murine marrow pluripotent stem cells in vitro,” Annual meeting, International Society for Experimental Hematology
 - Buffalo, NY: “Long-term clonal growth of murine marrow stem cell colonies in semi-solid cultures supplemented with interleukin-3, hemin, and erythropoietin,” Annual meeting, International Society for Experimental Hematology
- 1987**
 - Boston, MA: “The role of hemin in erythropoiesis,” Tufts University School of Medicine Colloquium
 - Lowell, MA “Growth factors in hemopoiesis,” Department of Biology Colloquium
 - Rye, New York: “Molecularly characterized factors governing the growth of murine multipotent stem cells in serum-depleted marrow cultures,” International conference on the Molecular Biology of Hemopoiesis
 - Washington, DC: “Serum-free growth of murine multipotent stem cells (CFU-GEMM): Requirement for interleukin-3 and hemin,” Annual meeting, Tissue Culture Association
 - Tokyo, Japan: “Serum-free growth of murine multipotent stem cells (CFU-GEMM): Requirement for interleukin-3 and hemin” Annual meeting, International Society for Experimental Hematology

1988

- Guadalajara, Mexico: "Growth factors acting on early stages of hemopoiesis," International conference on the Regulation of Hemopoiesis
- Houston, Texas: "Modulation of interleukin-3-dependent multipotential stem cell colony growth in vitro," Annual meeting, International Society for Experimental Hematology

1989

- Paris, France: "Modulation of multipotential stem cell growth in serum-deprived marrow cell cultures by hemin: Independence from exogenous sources of iron," Annual meeting International Society for Experimental Hematology
- Cambridge, MA: "Serum-free culture of multipotential stem cells," 15th Annual Stohlman Memorial Symposium

1990

- San Diego, CA: "The role of iron protoporphyrin as a supplier of iron at early stages of hematopoietic cell development," Annual meeting, American Society of Cell Biology
- Boston, MA: "Erythropoietin-independent colony formation by multipotent stem cells in 'serum-free' bone marrow cultures," Annual meeting, American Society of Hematology
- Seattle, WA: "Mechanism of action of hemin at early stages of multipotential cell growth in vitro," Annual meeting, International Society for Experimental Hematology
- Lowell, MA: "Physiology and biochemistry of erythropoietin," University of Lowell, Division of continuing education, conference on Kidney Diseases

1991

- Toronto, Canada: "Role of heme in hematopoiesis," Department of Cell Biology, Seminar Program
- Bethesda, MD: "Growth factor control of hemopoiesis in vitro," National Institutes of Health Conference on Stromal Regulation of Hematopoiesis
- Boston, MA: "C-kit proto-oncogene ligand potentiates the expression of multipotential stem cells in serum-deprived bone marrow cultures," Annual meeting, American Society of Cell Biology
- Denver, CO: "Augmentation of c-kit proto-oncogene ligand enhancement of multipotential stem cell colony formation in serum-deprived bone marrow cultures," Annual meeting, American Society of Hematology

1992

- Providence, RI: "Serum lipids augment the response of multipotential stem cells to Steel factor," Annual meeting, International Society for Experimental Hematology
- Denver, CO: "Serum lipids augment the response of multipotential stem cells to interleukin-3, erythropoietin, and the Steel factor," Annual meeting, American Society of Cell Biology

1994

- Minneapolis, MN: "Mitogenic effects of defined lipids on multipotential hematopoietic stem cell growth in serum- and lipid-deprived clonal cell cultures," Annual meeting, International Society for Experimental Hematology

- Nashville, TN: “Why is serum albumin essential for stem cell growth in vitro? Role as a lipid carrier.” Annual meeting, American Society of Hematology

Grant Activity: (total direct costs)

- American Cancer Society (Massachusetts Division), “Immunological characterization of murine hematopoietic stem cells,” (1974-1975), \$14,200.
- American Cancer Society (National Division), “Use of anti-stem cell antibody in stem cell characterization,” (1974-1976) \$93,400.
- N.I.H. (AMDD), “Cell cycle studies of hematopoietic progenitor cells,” (1974-1977) \$139,000.
- Boston University Graduate School Seed Grant, A study of anti-hematopoietic stem cell antibody,” (1975-1976) \$2400.
- American Cancer Society (Massachusetts Division), “Anti-hematopoietic stem cell characterization and immunofluorescent labeling,” (1976-1977) \$18,000.
- Boston University Graduate School Seed Grant, “Anti-stem cell antibody characterization,” (1977-1978) \$2000.
- National Leukemia Association, “Immunological characterization of hematopoietic stem cells,” (1978-1979) \$22,000.
 - Boston University Cancer Research Center Grant, “Proliferation kinetics of primitive erythroid progenitors in murine bone marrow,” (1980-1981) \$3960.
- N.I.H. (AMDD) “An immunological study of pluripotent stem cells,” (1978-1981) \$185,000.
- N.I.H. (AMDD), Research Career Development Award: “Regulation of stem cell proliferation and differentiation,” (1977-1982) \$185,000.
- Boston University Graduate School Seed Grant, “The role of hemin in modulating erythropoiesis in vitro,” (1982-1983) \$2000.
- N.I.H., Special Animal Research Grant (with Peter Faletta, graduate student), “Cellular aging in stress hematopoiesis,” (1982-1983) \$2250.
- Connecticut Health Services Research Grant, “A pilot study of a modified diagnostic test to identify individuals susceptible to cancer cells as transformation target cells,” (1985-1986) \$15,000.
- N.I.H. (NIADDKD), “The role of hemoglobin derivatives in hemopoiesis,” (1985-1989) \$182,000.
- Boston University Graduate School Seed Grant, “Growth factor induced expression of c-myc and c-fos proto-oncogenes in early hematopoietic cell development,” (1989-1990) \$4000.
- N.I.H. (NIADDKD), “Modeling of hematopoietic recovery after cytotoxic drugs,” (1986-1990) \$215,000.
- Immunex Corporation, Seattle, WA (Materials Grant) (1991) \$10,000.

PUBLICATIONS: FULL-LENGTH ARTICLES

1. Varsa E, LoBue J, Handler E, Dornfest B, Gordon AS, **Monette FC** (1965) Mechanisms of leukocyte production and release. IV. Factors influencing leukocyte release from isolated perfused femora of rats with chloroleukemia. *Acta Haematologica*, 33(5): 287-296
2. **Monette FC**, LoBue J, Gordon AS, Chan P-C (1965) Erythropoiesis in transfusion-induced polycythemic rats studied with H³-thymidine autoradiography. *Proceedings of the Society for Experimental Biology and Medicine* 119(2): 445-449
3. Chan P-C, **Monette FC**, LoBue J, Gordon AS (1966) Quantitation of mouse femoral and tibial marrow using an electronic cell counter. *Proceedings of the Society for Experimental Biology and Medicine*, 121: 793-795
4. Johnson LI, Sullivan PA, Chan P-C, LoBue J, **Monette FC**, Gordon AS (1967) Studies on the response of rat lymphocytes to phytohemagglutinin. *Annals of the New York Academy of Sciences*, 136: 807-822
5. Johnson LI, Chan P-C, LoBue J, **Monette FC**, Gordon AS (1967) Cell cycle analysis of rat lymphocytes cultured with phytohemagglutinin in diffusion chambers. *Experimental Cell Research*, 47: 201-208
6. Chan P-C, Johnson LI, **Monette FC**, LoBue J, Gordon AS (1967) Tritiated-thymidine incorporating cells in the peripheral blood of normal and splenectomized rats. *Proceedings of the Society for Experimental Biology and Medicine*, 125: 614-617
7. LoBue J, **Monette FC**, Camiscoli JF, Gordon AS, Chan P-C (1968) Erythropoietin and erythropoiesis in isolated, perfused hindlegs of rats: A preliminary study. *Annals of the New York Academy of Sciences*, 149: 257-264
8. **Monette FC**, LoBue J, Chan P-C, Gordon AS (1968) DNA synthesis time and related parameters in erythroid cell precursors of rats. *Scandinavian Journal of Haematology*, 5: 325-332
9. LoBue J, **Monette FC**, Gordon AS, Chan P-C, Alexander Jr., P (1968) Cell cycle analysis of erythroid and granulocyte precursors of rats of different ages. *Experimental Hematology* (Number 16): 47-48
10. **Monette FC**, LoBue J, Gordon AS, Alexander Jr., P, Chan P-C (1968) Erythropoiesis in the rat: Differential rates of DNA synthesis and cell proliferation. *Science* 162: 1132-1134
11. Johnson LI, LoBue J, Chan P-C, **Monette FC**, Gordon AS (1969) Autoradiographic studies of the fate of phytohemagglutinin-induced "blast" cells cultured in diffusion chambers. *Proceedings of the conference on Leukocyte Culture*, Rieke WO (editor), Appleton-Century-Crofts, Meredith Corporation, New York, pp. 147-155

12. Johnson LI, LoBue J, Chan P-C, **Monette FC**, Rubin AD, Gordon AS, Dameshek W (1969) Autoradiographic studies of human lymphocytes cultured in vivo. *Proceedings of the Society for Experimental Biology and Medicine*, 130: 675-679
13. Alexander Jr., P, **Monette FC**, LoBue J, Gordon AS, Chan P-C (1969) Mechanisms of leukocyte production and release X. Eosinophil proliferation in rats of different ages. *Scandinavian Journal of Haematology*, 6: 319-326
14. LoBue J, **Monette FC**, Gordon AS (1970) Cell cycle analysis of erythroid and granulocyte precursors of rats of different ages. *Atomic Energy Commission Symposium Series 19*, Clarke WJ, Howard EB, Hackett PL (editors), pp. 84-102
15. Morley A, **Monette FC**, Rizzoli V, Howard D, Stohlman Jr., F (1971) Studies on the regulation of granulopoiesis III. Neutrophil kinetics in irradiation-induced neutropenia. *British Journal of Haematology*, 20: 537-547
16. Rickard KA, Rencricca NJ, Shadduck RK, **Monette FC**, Howard DE, Garrity M, Stohlman Jr., F (1971) Myeloid stem cell kinetics during erythropoietic stress. *British Journal of Haematology*, 20: 537-547
17. **Monette FC**, Morse BS, Howard D, Niskanen E, Stohlman Jr., F (1971) Stem cell proliferation kinetics during the early response to antigen. *Experimental Haematology* (Number 21): 21-22
18. **Monette FC**, Morse BS, Howard D, Niskanen E, Stohlman Jr., F (1972) Hematopoietic stem cell proliferation and migration following Bordetella pertussis vaccine. *Cell and Tissue Kinetics* 5: 121-129
19. Stohlman Jr., F, Quesenberry P, Niskanen E, Morley A, Tyler W, Rickard K, Symann M, **Monette F**, Howard D (1973) Control of granulopoiesis, IN: *Haemopoietic Stem Cells*, Ciba Foundation Symposium 13, Wolstenholme GEW, O'Connor M (editors), Elsevier Scientific Publishing Co., The Excerpta Medica Foundation (North-Holland Publishing Co.), New York, pp. 205-219
20. **Monette FC**, Gilio MJ, Chalifoux P (1974) Separation of proliferating CFU from G₀ cells of murine bone marrow. *Cell and Tissue Kinetics* 7:443:450
21. Rencricca NJ, Morse BS, **Monette FC**, Howard D, Stohlman Jr., F (1975) Hydroxyurea-induced erythroid differentiation. *Proceedings of the Society for Experimental Biology and Medicine* 149: 1052-1054
22. **Monette FC**, Eichacker PQ, Byrt W, Garver RI, Gilio MJ, DeMello JB (1977) An immunologic approach to cell cycle analysis of the stem cell. IN: *Experimental Hematology Today*, Baum SJ, Ledney GD (editors), Springer-Verlag, New York, pp. 11-19

23. **Monette FC**, Eichacker PQ, Garver RI, Byrt W, Gilio MJ (1978) Characterization of the anti-stem cell activity of anti-mouse brain serum. *Experimental Hematology* 6: 299-310
24. **Monette FC**, DeMello JB (1979) The relationship between stem cell seeding efficiency and position in cell cycle. *Cell and Tissue Kinetics* 12: 161-175
25. **Monette FC** (1979) Antibodies against pluripotent stem cells: Their use in studying stem cell function. *Blood Cells* 5: 175-191
26. Quesenberry P, Levitt L, **Monette FC**, Eichacker PQ, Zuckerman K, Sullivan R, Ryan M (1979) The use of stem cell assays to monitor the proliferative potential of bone marrow cells. *Experimental Hematology* 7 (Supplement 5): 210-227
27. **Monette FC**, Stockel JB (1980) Blood-borne stem cells are immunologically distinct from those in other hematopoietic tissues. *Experimental Hematology* 8: 89-95
28. Quesenberry P, Sullivan R, Fountebouni A, Levitt L, Niskanen E, Symann M, **Monette FC**, Zuckerman K, Ryan M (1980) Studies on the regulation of diffusion chamber granulopoiesis. IN: *Diffusion Chamber Culture*, Cronkite EP, Carsten AL (editors), Springer-Verlag, NY, pp. 44-53
29. **Monette FC**, Kent RB, Weiner EJ, Jarris Jr., RF, Ouellette PL, Thorson JA, Zelick RD (1980) Cell-cycle properties and proliferation kinetics of late erythroid progenitors in murine bone marrow. *Experimental Hematology* 8: 484-493
30. **Monette FC**, Ouellette PL, Thorson JA, Hausdorff W, Weiner EJ, Jarris Jr., RF (1980) The in vitro erythropoietin sensitivity of late erythroid progenitors subjected to opposing physiologic demands. *Experimental Hematology* 8: 947-953
31. Ouellette PL, **Monette FC** (1980) Erythroid progenitors forming clusters in vitro demonstrate high erythropoietin sensitivity. *Journal of Cellular Physiology* 105: 181-184
32. **Monette FC**, Ouellette PL, Faletra PP (1981) Characterization of murine erythroid progenitors with high erythropoietin sensitivity in vitro. *Experimental Hematology* 9: 249-256
33. **Monette FC**, DeMello JB, Weiner EJ (1981) Fundamental changes in marrow stem cell compartments following suppression of erythropoiesis. IN: *Experimental Hematology Today, 1981*, Baum SJ, Ledney GD, Khan A (editors), S. Karger AG, New York, pp. 69-76
34. **Monette FC**, Weiner EJ, Faletra PP (1981) The state of differentiation of erythroid cells forming clusters in vitro. *Experimental Hematology* 9: 711-715
35. Levitt LJ, Quesenberry PJ, **Monette FC**, Zuckerman K, Sullivan R, Ryan M (1981) Utilization of mouse stem cell-depleted marrow in the study of diffusion chamber myelopoiesis. *Proceedings of the Society for Experimental Biology and Medicine* 167: 188-193

36. **Monette FC**, Stockel JB (1981) Immunological evidence for murine haematopoietic stem cell subpopulations differing in self-renewal capacity. *Stem Cells* Volume 1 (Number 1): 38-52
37. **Monette FC**, Wassef WY (1981) Thymocyte involvement in spleen colony formation by subpopulations of hematopoietic stem cells. *Experimental Hematology* 9: 1011-1019
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