

BIOGRAPHICAL SKETCH

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NAME McGregor, Douglas D.	POSITION TITLE Professor, Immunology, Emeritus Cornell University		
eRA COMMONS USER NAME DDM7CORNELL			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
University of Western Ontario	B.A.	1954	Humanities
University of Western Ontario	M.D.	1956	Medicine
University of Oxford.	D. Phil	1963	Pathology

A. Personal Statement

I am an Emeritus Professor of Immunology who has had significant experience in basic biomedical research, research administration and teaching. During the "active" phase of my career, I conducted research aimed at elucidating the life history of lymphocytes, and the role of T cells in tissue transplantation immunity and acquired defense mechanisms against infection. Throughout my career, but especially during the past two decades, I become intensely interested implementing and evaluating strategies for research training and promoting the career progression of individuals who aspire to discovery-based careers and careers as public health professionals.

B. Positions and Employment

1956-1957	Intern, Toronto Western Hospital, Toronto
1957-1958	Jr. Assistant Resident, Medicine, Sunnybrook Hospital, Toronto
1958-1959	Postdoctoral Fellow, Banting Institute, University of Toronto
1959-1960	Senior Assistant Resident, Medicine, Toronto General Hospital, Toronto
1960-1963	Postdoctoral Fellow, Sir William Dunn School of Pathology, Oxford University
1963-1968	Assistant Professor, Experimental Pathology, Case Western Reserve University
1968-1969	Associate Professor, Pathology, University of Connecticut School of Medicine
1969-1976	Member, Trudeau Institute
1976-2010	Professor, Immunology, NYS College of Veterinary Medicine, Cornell University
1976-1991	Director, James A. Baker Institute for Animal Health, Cornell University
1988-2001	Associate Dean for Research and Graduate Education, College of Veterinary Medicine, Cornell University
1990-2010	Director, Cornell Leadership Program for Veterinary Students
2001-2010	Director, Leadership and Training Initiatives, Cornell University College of Veterinary Medicine
2010	Professor, Immunology, Emeritus

Honors and Appointments

1956	Alpha Kappa Kappa Gold Medal, Medical Alumni Gold Medal, Poulenc Award and Gold Medal, University of Western Ontario
1958	Postdoctoral Fellowship, Medical Research Council of Canada
1960-1963	Postdoctoral Fellowship, Medical Research Council of Canada
1964-1975	Faculty Research Associate, American Cancer Society
1971-1975	Member, Allergy and Immunology Study Section, NIH
1975-1983	Chairman, Medical Endpoints Subcommittee, Health Survey of American Men, Center for Population Control, National Institutes of Child Health and Human
1983-1983	Member, Fellowship Review Committee, Fogarty Center, NIH
1981-1985	Member, NIH Director's Advisory Committee
1981-1985	Member, Arthritis, Diabetes and Digestive and Kidney Diseases, Study Section, NIH
1981-1985	Ad Hoc Consultant, National Cancer Institute, National Institute of Allergy and Infectious Diseases,

	National Institute of Arthritis, Diabetes and Kidney Diseases
1985	Consultant, United States Department of Agriculture
1989	Gamma Sigma Delta Award for Innovative Research
1989-1993	Chairman, Scientific Advisory Board, Guthrie Research Institute
1990-1995	Board of Trustees, Guthrie Health Care System
1990-1995	Board of Directors, Guthrie Foundation for Education and Research
1992	Merck Ag Vet Award for Creativity in Veterinary Medical Education
2001-2016	Secretary Treasurer, Thurman Zumwalt Foundation
2003	Douglas D. McGregor, Annual Research Lecture, Cornell University
2003	Arthur F. North Service Award, Baker Institute, Cornell University
2007	Dr Vet. Sci. (Hon), University of Sydney
2012	Associate (Hon), Royal College of Veterinary Surgeons

C. Selected peer-reviewed publications (publications selected from > 100 peer reviewed publications)

- Gowans, J.L., **McGregor, D.D.**, Cowan, D.M. and Ford, C.E. (1962) Initiation of immune responses by small lymphocytes. *Nature (London)* 196: 651-655.
- McGregor, D. D.** and Gowans, J. L. (1963) The antibody response of rats depleted of lymphocytes by chronic drainage from the thoracic duct. *J. Exp. Med.*, 117:303-320.
- McGregor, D.D.** and Gowans, J.L. (1964) Survival of homografts of skin in rats depleted of lymphocytes by chronic drainage from the thoracic duct. *Lancet* 1: 629-632.
- Goldschneider, I. and **McGregor, D. D.** (1966) Development of immunologically competent cells in the rat. *Nature (London)*, 212:1433-1435.
- McGregor, D.D.**, McCullagh, P.J., and Gowans, J.L. (1967) The role of lymphocytes in antibody formation. 1. Restoration of the haemolysin response in X-irradiated rats with lymphocytes from normal and immunologically tolerant donors) *Phyl. Trans. Roy. Soc.(London)* Ser. B. 8:188-229.
- Goldschneider, I. and **McGregor, D.D.** (1968) Migration of lymphocytes and thymocytes in the rat. The route of migration from blood to spleen and lymph nodes. *J. Exp. Med.* 127: 155-168.
- McGregor, D. D.** (1968) Bone marrow origin of immunologically competent lymphocytes in the rat. *J. Exp. Med.*, 127:953-966.
- Koster, F.T. and **McGregor, D.D.** (1970) Rat thoracic duct lymphocyte types that participate in inflammation. *Science* 167: 1137-1139.
- McGregor, D. D.**, Koster, F. T., and Mackaness, G. B. (1971) The mediator of cellular immunity. I. The life-span and circulation dynamics of the immunologically committed lymphocyte. *J. Exp. Med.*, 133:389-399.
- Koster, F.T., **McGregor, D.D.**, and Mackaness, G.B. (1971) The mediator of cellular immunity. II. Migration of immunologically committed lymphocytes into inflammatory exudates. *J. Exp. Med.* 133: 400-409.
- McGregor, D.D.** and Koster, F.T. (1971) The mediator of cellular immunity. IV. Cooperation between lymphocytes and mononuclear phagocytes (1971) *Cell. Immunol.* 2: 317-325.
- Vaughn W.P. and **McGregor, D.D.** (1972) Lymphopoiesis in the rat. 1. The effect of pool size on lymphocyte production. *J. Cell. Physiol.* 80: 1-12.
- McGregor, D.D.**, Koster, F.T. and Mackaness, G.B. (1970) The short lived small lymphocyte as a mediator of cellular immunity. *Nature (London)* 228: 855-856.
- McGregor, D.D.** and Logie, P.S. (1973) The mediator of cellular immunity. VI. Effect of the antimitotic drug, Vinblastine, on the mediator of cellular resistance to infection. *J. Exp. Med.* 137: 660 –674
- McGregor, D.D.** The responsiveness of tolerant lymphocyte populations after transfer to normal recipients (1973) *J. Immunol.* 111: 672-681.
- Goldschneider, I. and **McGregor, D.D.** (1973) Anatomical distribution of T and B lymphocytes in the rat: Development of lymphocyte specific antisera. *J. Exp. Med.* 138: 1443-1465.
- McGregor, D.D.** and Logie, P.S. (1974) The mediator of cellular immunity. VII. Localization of sensitized lymphocytes in inflammatory exudates. *J. Exp. Med.* 139:1415-1430.
- McGregor D.D.** and Mackaness, G.B.(1975) The properties of lymphocytes which carry immunological memory of O/X174. *J. Immunol.* 114: 336-342.
- Kostialla, A.A. and **McGregor, D.D.** (1975) The mediator of cellular immunity IX. The relationship between cellular hypersensitivity and acquired cellular resistance in rats infected with *Listeria monocytogenes*. *J. Exp. Med.* 141: 1249-1260.

- McGregor, D.D.**, Logie, P.S. and Carmichael, L.E. (1976) The mediator of cellular immunity. XII. Inhibition of activated T cells by Newcastle Disease Virus. *J. Exp. Med.* 144:627.
- Jungii, T.W. and **McGregor, D.D.** (1978) Activated lymphocytes trigger lymphocyte extravasation. *Cell Immunol.* 38:76-83.
- Jungi, T.W. and **McGregor, D.D.** (1978) Allogeneic restriction of acquired antimicrobial resistance in the rat. *J. Immunol.* 121:449-455.
- Bell, R.G. and **McGregor, D.D.** (1979) *Trichinella spiralis*: Role of different life cycle phases in induction, maintenance and expression of rapid expulsion in rats. *Exp. Parasitol.* 48: 51-60.
- Jungi, T.W. and **McGregor D.D.** (1980) Allogeneic restriction in the rat: genetic basis of restriction of the T cell mediators of delayed-type hypersensitivity and antimicrobial resistance to *Listeria monocytogenes*. *J. Immunogenetics* 7: 243-260.
- Woan, M.C. and **McGregor, D.D.** (1984) The mediators of acquired resistance to *Listeria monocytogenes* are contained within a population of cytotoxic T cells. *Cell Immunology* 87:538.
- Appleton, J.A. and **McGregor, D.D.** (1984) Acquired immunity to an intestinal helminth in neonates. *Science* 226:70-72.
- Appleton, J.A. and **McGregor, D.D.** (1985) Life phase specific induction and expression of rapid expulsion in rats suckling *Trichinella spiralis* infected dams. *Immunology* 55:225-232.
- Woan, M.C., Sajewski, D.H. and **McGregor, D.D.** (1985) T cell cooperation in the mediation of acquired resistance to *Listeria monocytogenes*. *Immunology* 56:33-41.
- Woan, M.C., **McGregor, D.D.**, Harris, W.V. and Greiner, D.L. (1986) Monoclonal antibody analysis of *Listeria monocytogenes* induced responsive lymphocytes. *Immunology* 57:505-513.
- Woan, M.C., **McGregor, D.D.** and Forsom, U. (1986) Isolation and characterization of *Listeria monocytogenes* protective T cells. *Infect. Immunity* 52:401-407.
- Appleton, J.A. and **McGregor, D.D.** (1987) Characterization of the immune mediator of rapid expulsion of *T.spiralis* in suckling rats. *Immunology* 62:477- 484.
- Appleton, J.A., Schain, L.R. and **McGregor, D.D.** (1988) Rapid expulsion of *Trichinellaspiralis* in suckling rats: Mediation by monoclonal antibodies. *Immunology* 65:487-492.
- Carlisle, M.S., **McGregor, D.D.** and Appleton, J.A. (1990) The role of mucus in antibody mediated rapid expulsion of *Trichinella spiralis* in suckling rats. *Immunology* 70:126-132.
- Carlisle, M.S., **McGregor, D.D.** and Appleton, J.A. (1991) The role of the Fc region in rapid expulsion of *Trichinella spiralis* in suckling rats. *Immunology* 74:552-558.
- McGregor, D.D.** (1999) Preparing veterinarians for research careers. *J. Vet. Med. Ed.* 19:111-115.
- McGregor, D.D.**, Benjamin, R.B., Berendes, H.W., Bernstein, G.S., Coulson, A.H., Crozier, R., Emslander, R.F., Quiroga, J., Schmidt, D., Schuman, L.M., and Sullivan, T. (1993) Medical endpoints in health status of American men - a study of post-vasectomy sequelae. *J. Clin. Epidem.* 46:753-768.
- Coulson, A.H., Berendes, H.W., **McGregor, D.D.** and Nakamura, R.M. (1993) Risk factors in health status of American men - a study of post-vasectomy sequelae. *J. Clinical Epidem.* 46:791-796.
- McGregor, D.D.** (1994) Current issues in PhD programs. *J. Vet. Med. Educ.* 21:74-75.
- McGregor, D.D.** (1999) Leadership training for veterinary students. *J. Vet. Med. Educ.* 25:6-11.
- McGregor, D.D.** and Fraser, D.R. (2002) The Cornell Leadership Program for Veterinary Students. *J. Vet. Med. Educ.* 29:157-161.
- Fraser, D.R., and **McGregor, D.D.** (2002) An exercise in leadership training for veterinary students aiming for careers in biomedical research. *J. Vet. Med. Educ.* 29:162-166.
- McGregor, D.D.** and Fraser, D.R. (2006) Promoting science based careers through student directed learning. *J. Vet. Med. Educ.* 33: 294-298.
- McGregor, D.D.** and Fraser, D.R. (2006) Counseling veterinary students who aspire to careers in science. *JAVMA* 229:1-4.
- McGregor, D.D.** and Fraser, D.R. Haven, M.L. and Hickey, G.J. (2007) Acquainting veterinary students with careers in the pharmaceutical industry. *J. Vet. Med. Educ.* 34: 139-142.
- Fraser, D.R., **McGregor, D.D.** and Gröhn, Y.T. (2008) Career paths of alumni of the Cornell Leadership Program for Veterinary Students. *The Veterinary Record* 163:750- 756.
- Fraser, D.R., Parker, J.S.L. and **McGregor, D.D.** (2016) Vocational choices made by alumni of the Leadership Program for Veterinary Students at Cornell University. 759-764.