

CURRICULUM VITAE

A. IDENTIFICATION

Name **HAEGERT, David George**
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B. EDUCATION

Undergraduate

1960-1964 University of Victoria, Faculty of Arts and Science, Victoria, B.C.,
 Bachelor of Arts Degree (1964)

1964-1968 University of British Columbia, Faculty of Medicine, Vancouver,
 B.C., Doctorate of Medicine (1968)

Post-graduate training
Clinical

June 1968-June 1969 Rotating Intern, Royal Victoria Hospital, Montreal, Quebec

July 1969-June 1970 1st Year Resident in Anatomical Pathology (Supervisor - Dr. W. H. Mathews), Montreal General Hospital, Montreal, Quebec

Jan. 1971-June 1971 2nd Year Resident in Anatomical Pathology, (Supervisor - Dr. R. H. More), Pathology Institute, Montreal, Quebec

July 1971-June 1972 3rd Year Resident in Anatomical Pathology, (Supervisor - Dr. R. H. More), Pathology Institute, Montreal, Quebec

Research

Oct. 1972-Sept. 1974 Research Fellow of Medical Research Council of Canada,
 Immunology Division, Department of Pathology, University of
 Cambridge, England (Supervisor - Professor R.R.A. Coombs)

- Sept. 1985-Sept. 1986 Commonwealth Medical Fellow, Regional Immunology, Tenovus Laboratory, Southampton General Hospital, Southampton, England (Supervisor - Dr. J. L. Smith)
- July 1999–June 2000 Visiting Scientist, Neuroimmunology, Montreal Neurological Institute (Supervisor – Dr. J. Antel)

Professional Certifications

- 1971 License to practice medicine for corporation Professionnelle des Mediciens du Quebec
- 1973 Specialist Certificate in Anatomical Pathology from the Royal College of Physicians and Surgeons of Canada
- 1973 Fellow of the Royal College of Physicians and Surgeons of Canada (Anatomical Pathology)
- 1975 Certified Specialist in Anatomical Pathology, Quebec

C. APPOINTMENTS

University

- 1975-1980 Assistant Professor, Department of Pathology, McGill University, Geographic, full time
- 1980-1991 Associate Professor, Department of Pathology, McGill University, Geographic, full time
- 1983 Tenure granted at McGill University
- 1991-1996 Professor and Chairman, Pathology, Memorial University of Newfoundland, with tenure
- 1996-2002 (August) Professor and Chairman, Laboratory Medicine, Memorial University of Newfoundland, with tenure
- 2002 (September-present) Professor of Pathology, Hospital, McGill University Faculty of Medicine
- 2005 (September-present) Chair of Pathology, McGill University Faculty of Medicine

Hospital

1975-1978	Assistant Pathologist, Montreal General Hospital
1979-1983	Associate Pathologist, Montreal General Hospital
1983-1995	Senior Pathologist, Montreal General Hospital
1991-present	Chairman of Department of Laboratory Medicine and Member of Active Staff, The General Hospital, St. John's, NF
1995-2002	Clinical Chief, Laboratory Medicine Program, St. John's Health Care Corporation, St. John's, NF; Active Staff, St. John's Health Care Corporation
2002-present	Active Staff, Department of Pathology, MUHC
2005-present	Pathologist-in-Chief, MUHC

D. SPECIAL HONORS AWARDS, RECOGNITION

Medical Research Council of Canada Research Fellow, 1972-1974 (see above)

Basis of Medicine, Small Group Leader of the Year Award, 2002-2003, McGill Faculty of Medicine, Class of 2006

E. TEACHING

1. McGill Undergraduate Medical student teaching 2002-2007

1 st Year Medical Students (each year)	
1) Immune mediated tissue injury Immunological tolerance	2hr lecture
2) Autoimmunity	1 hr lecture
3) Cell injury and acute inflammation	3hr SGS
4) Chronic inflammation and healing	3 hr SGS
5) Pathology of Lung Infections	3 hr SGS
2 nd Year Medical Students	
1) Pulmonary neoplasms	3hr SGS
2) Connective tissue diseases	1hr Lecture
3) COPD, CRLD, etc	3hr SGS

4) Endocarditis valvular heart disease	3hr SGS
5) Lymph nodes	1hr lecture
6) Lymphomas	2hr lecture
7) Diabetes	3hr SGS
8) Leukemia etc	2hr lecture
9) Lymph node diseases	3hr SGS
10) Breast diseases	3hr SGS
11) Breast cancer	3hr SGS
12) Upper GI tract	3hr SGS
13) Lower GI tract	3hr SGS
14) Liver pancreas biliary disease	3hr SGS
15) Spleen (hematology course)	1hr lecture

Post-graduate teaching since arrival at McGill in 2002

Lectures to Pathology Residents in Molecular Pathology
 Participation in Surgical Pathology Rounds each week
 Individual Surgical Pathology teaching to Pathology Residents
 Bi-weekly Lymphoma rounds
 Tumour Board teaching rounds

CME since arrival at McGill in 2002

International Congress of Neuroimmunology, Nagoya, Japan, 2006
 ECTRIMS meeting, 2005, Thessaloniki, Greece
 Harvard Surgical Pathology Course, January 2005, Phoenix
 International Congress of Neuroimmunology, 2004, Venice
 ECTRIMS meeting, 2003, Milan
 American Academy of Neurology Conference, Honolulu, 2003
 End MS Conference, Banff, 2007

2. Research Trainees Supervised since 1995.

1992-1995 Graduate student, M.Sc., Enoch Daniel. T cell receptor gene usage is determined by genetic background.

1995-1998. Graduate student MSc. Teresa Cowan. The TCRBJ and TCRBV repertoire in naïve and memory human T-cells

1996-1998. Graduate student MSc. Melanie Green. Identification of novel autoantigens by serological screening of cDNA expression library from MS brain tissues.

2001-2002. Graduate student MSc. Gillian Gibbons. The T-cell receptor repertoire in MS.

2002-present. Graduate student MSc. Danielle Duszczyszyn. Appointed to Dean's honor list. Alterations of the T-cell receptor repertoire in MS.

2004-present. Graduate student PhD. Danielle Duszczyszyn. Perturbed naïve T-cell homeostasis and evidence of thymic abnormality in relapsing-remitting multiple sclerosis Thesis submitted and PhD granted

2005-2007. Graduate student MSc. Jessica Hackenbroch. Homeostatic abnormalities in naïve T-cells from patients with primary progressive MS. Thesis submitted and MSc. granted

2006-2008 Graduate student MSc. Julia Williams. Evidence of a thymic abnormality in relapsing-remitting multiple sclerosis. MSc. thesis submitted.

2007-2009 – Graduate Student MSc. Neuroscience Program. Evelyn Zastepa. Gene expression profiling in primary progressive MS.

2007-2009 – Graduate Student MSc. Neuroscience Program. Leslie Fitz-Patrick. T-cell studies in Secondary Progressive MS.

F. OTHER CONTRIBUTIONS

1. International

Invited speaker, National Multiple Sclerosis Society of Italy, Calgiari, Italy, 1992.

Invited speaker, National Multiple Sclerosis Society of Italy, Sardinia, 1993.

Invited participant, International Workshop on the Genetics and Epidemiology of MS, in Sardinia, Italy, 1993.

Co-editor, Genetics and Epidemiology of Multiple Sclerosis, published as a supplement to Annals of Neurology, 1994. Editorial meetings held in Sardinia, London and Boston.

Invited participant. Second International Workshop on Genetics and Epidemiology of MS, Italy, 1995.

Chair of Workshop on Genetics of Multiple Sclerosis, International Congress of Neuroimmunology, Montreal, 1998.

2. National Committees

1991–1994 Member, MRC Pathology and Morphology Grants Review Committee

1992–1994 Member, Future of Pathology/Laboratory Medicine in Canada

Consortium

1991–2002 Member, Association of Chairmen of Pathology of Canadian Medical Schools

1995–2000 Secretary-Treasurer, Association of Chairs of Pathology of Canadian Medical School

3. Referree activities

Ad Hoc referee for Multiple Sclerosis Society of Canada, Medical Research Council of Canada, Canadian Institutes of Health Research, Italian Multiple Sclerosis Society, UK Multiple Sclerosis Society

3. Administrative Responsibilities

Current

Chair of Pathology, Faculty of Medicine, McGill University

Pathologist-in-Chief, MUHC

Director of Molecular Pathology Laboratory, MUHC

Previous Administrative Responsibilities

St. John's Newfoundland-Hospital

1991-2002 Clinical Chief of Laboratory Medicine, General Hospital and then Health Care Corporation of St. John's

1991–1995 Member of Medical Advisory Committee, The General Hospital

1995–2002 Member of Medical Advisory Committee, The Health Care Corporation of St. John's

1993–1995 Member of Quality Improvement Committee of The General Hospital Board

1993–2000 Chair of Laboratory Utilization Committee of The Health Care Corporation of St. John's

1995–2002 Initiated and Chaired Laboratory Director's Review Committee to assess Provision of Laboratory Services in St. John's

1995–2002 Member of Laboratory Manager's and Director's Committee to Review Laboratory Services in St. John's

1995 Member of Phase II focus group on the Laboratory Program

St. John's NF-University

1991-2002 Professor and Chair, Department of Pathology, Memorial University of Newfoundland

1991–2002 Member of Residents Training Committee in Anatomic and General Pathology

1991–1993 Coordinator, Systems Pathology Course, 2nd year, Faculty of Medicine

1991–2002 Member, Resource Management Committee, Faculty of Medicine

1991–2000 Member, Immunology Research Group, Faculty of Medicine

1991–2002 Member, Pathology Residency Training Program Committees

1991-2002 Member, Undergraduate (1st and 2nd year) Pathology Teaching Committees

1994 Chair of Committee to Review Chair of Medicine of Faculty of Medicine and The General Hospital (Review of Dr. I. Bowmer)

1994 –2002 Member, Budget Advisory Committee for the faculty, Faculty of Medicine,

1994–present Member, Management Executive Committee, Faculty of Medicine

1996 Chair, Internal Review of General Surgery Residency Training Program

Member of Committee to investigate alleged scientific misconduct at Memorial University of Newfoundland, 1995

Examination Committees

Member of many Ph.D. examination Committees as internal and external examiner at Memorial University and at McGill

Other Committees St. John's NF

1991 – 1996 Member, Medical Laboratory Sciences Advisory Committee, Cabot College of Applied Arts Technology and Continuing Education

1996 – 2002 Chair, Medical Laboratory Sciences Advisory Committee, Cabot
College of Applied Arts, Technology and Continuing Education

Teaching at McGill University and Memorial University of Newfoundland (Previous)

1. Lecturer in Immunopathology, second year students in Pathology, Faculty of Medicine, 1975 – 1985.
2. Lecturer in Immunopathology, second year students in Pathology, Faculty of Dentistry, 1975 – 1985.
3. Lecturer in Immunopathology, undergraduate course in Principles of Disease, Pathology 546 – 300B, 1978-present.
4. Basic Science Option in Immunopathology, four week course, 6 hours a week, for fourth year medical students, 1977 – 1979.
5. Tutorials (12 three hour seminars), second year students in Pathology, Faculty of Medicine, 1977 – 1991.
6. Biology of Disease, teaching in Surgical Pathology for second and third year medical students, 1975 – 1985.
7. Histopathology teaching, 1st year medical students, 1984-1991, McGill University.
8. Lecturer, gene rearrangements, 1st year medical students 1990.
9. Lecturer, Hematopoietic and Lymphoid Neoplasia, 2002
10. Tutorials, Systems Pathology for second year medical students, 2002 (seven different 3 hr. teaching sessions)

Memorial University

1. Lecturer and teacher in tutorials, 1st and 2nd year pathology (medical students), 1991–2002
2. Lecturer in Pathology for Pharmacy students, 1991–2002

3. Lecturer, Course in Immunology, medical students, 2001-2002

Graduate and Postgraduate Teaching

1975 – 2002 Individual and small group teaching in Pathology, for postgraduate residents in Pathology, McGill University and Memorial University

2001 – 2002 Lectures in Immunology for Graduate students in the Immunology Research Group.

RESEARCH GRANTS

1975 – 1977	National Cancer Institute of Canada Grant. D. G. Haegert , sole applicant
Apr. 1978- Mar. 1980	Medical Research Council Grant. Delineation and in vitro functional analysis of human peripheral T and B lymphocyte subsets on the basis of their expression of Ig determinants and membrane receptors for extrinsic antibody molecules. D. G. Haegert , sole applicant
Apr. 1980-Mar. 1982	Renewal of M.R.C. grant (as above)
July 1982-July 1983	Cancer Research Society Grant. Idiotypic determinants in T and B cell neoplasia. D. G. Haegert , sole applicant
Apr. 1983-Mar. 1985	National Cancer Institute of Canada Grant. Idiotypic determinants in T and B cell neoplasia. D. G. Haegert , sole applicant
July 1987-June 1989	M.R.C. of Canada. HLA gene probes in multiple sclerosis. D. G. Haegert (PI), G. Francis, co-applicant Cancer Research Society. T-cell receptor gene probes, immunoglobulin gene probes and HLA gene probes in Hodgkin's disease. D. G. Haegert , sole applicant
July 1989-Mar. 1990	M.R.C. of Canada. HLA gene probes in multiple sclerosis. D. G. Haegert (PI), G. Francis

- Apr. 1, 1990-Mar. 31, 1992 Multiple Sclerosis Society of Canada. Susceptibility genes in multiple sclerosis. **D. G. Haegert** (PI), Z. Hanna and G. Francis (\$89,500 first year)
- Apr. 1992-Mar. 31, 1994 Multiple Sclerosis Society of Canada. Susceptibility genes in multiple sclerosis. **D.G. Haegert** (PI), G. S. Francis, W. Pryse-Phillips (\$59,607 first year)
- Apr. 1992-Mar. 31, 1994 National Cancer Institute (Canada). Cervical cancer and III.A, HPV and p53. **D.G. Haegert** (PI), M.B. Kelleher (\$75,940 first year)
- April 1, 1994-Mar. 31, 1996 Multiple Sclerosis Society of Canada. HLA class II genotypes and T cell receptor usage in multiple sclerosis. **D. G. Haegert** (PI), B. Younghusband, W. Pryse-Phillips, G.S. Francis (\$62,587 per year)
- 1996 Janeway Research Advisory Committee, \$20,134. Identification of tumor antigens in lymphoid neoplasms of childhood. **D. G. Haegert**, sole applicant
- 1997 General Hospital Health Foundation, \$16,000. Tumor antigens in cancer of the uterine cervix. **D.G. Haegert**, sole applicant
- 1998 M.U.N. Research Biotechnology Infrastructure Funding. \$50,000.00. Tumor antigens in cervical cancer. **D.G. Haegert** (PI), S. Drover and M. Grant
- 1998 MRC (Canada) \$68,000.00 per year for 3 years. Analysis of tumor formation by a novel Rel oncogene (co-applicant). Not renewed.
- 1998 Determinant spreading of the immune response in multiple sclerosis. General Hospital Research Foundation. \$12,000.00. **D.G. Haegert**, sole applicant
- 2001-2003 Multiple Sclerosis Society of Canada. Alterations of the naïve CD4 T-cell receptor in multiple sclerosis. **D.G. Haegert**, V. Gadag, S. Drover. \$78,043 for first year, \$74,020 for second year
- 2001 Multiple Sclerosis Society of Canada. Relevance of recombination signal binding protein (RBP) to multiple sclerosis. **D.G. Haegert** (sole investigator \$35,000)
- 2003-2005 Renewal National Multiple Sclerosis Society of Canada grant.

Alterations of the T-cell receptor repertoire in MS. **D.G. Haegert** (PI), co-applicant V.G. Gadag. \$93,557 for the first year and \$84,216 for the second year.

- 2005-2008 Renewal Multiple Sclerosis Society of Canada grant. Altered naïve T-cell homeostasis in multiple sclerosis. **D.G. Haegert** (PI), \$99, 983 for first year, \$103, 243 second year, and \$107, 730 for third year.
- 2007- 2009 New grant: Multiple Sclerosis Society of Canada. CD4 T-cell subsets in RRMS: transcriptional profiles and cytokine production. **D.G. Haegert** (PI), co-applicant, A. Nantel. 75,000 per year for two years.
- 2007-2012 New grant: MS Foundation of Canada. Long term outcomes following immunoablative therapy and autologous stem cell transplant for poor prognosis multiple sclerosis. M. Freedman and H. Atkins (PI). Co-Investigator (**D.G. Haegert**) Total award \$2, 419, 701

PUBLICATIONS

- 1 **Haegert, D. G.**, Wang, N. S., Farrer, P. A., Seemayer, T. A., and Thelmo, W. Non-chromaffin paragangliomatosis manifesting as a cold thyroid nodule. *Am. J. Clin. Pathol.* 61:561-70, 1974.
2. Hallberg, T., **Haegert, D. G.**, Clein, G. P., Coombs, R. R. A., Feinstein, A., and Gurner, B. W. Observations on the mixed antiglobulin reaction as a test for immunoglobulin-bearing lymphocytes in normal persons and in patients with chronic lymphatic leukemia. *J. Immunol. Meth.* 4:317-322, 1974.
3. **Haegert, D. G.**, Hallberg, T., and Coombs, R. R. A. B and T lymphocyte subpopulations in human peripheral blood. *Int. Arch. Allergy* 46:525-538, 1974.
4. Smith, J. L., and **Haegert, D.** B and T lymphocyte markers on transformed lymphocytes from mitogen-stimulated cultures of normal and C.L.L. lymphocytes and tonsil blasts. *Clin. Exp. Immunol.* 17:547-560, 1974.
5. **Haegert, D. G.**, Cawley, J. C., Karpas, A., and Goldstone, A. H. Combined T and B cell

- acute lymphoblastic leukaemia. *Br. Med. J.* 4:79-82, 1974.
6. **Haegert, D. G.**, Cawley, J. C., Collins, R. D., Flemans, R. J. and Smith, J. L. Leukaemic reticuloendotheliosis: A morphological and immunological study of four cases. *J. Clin. Path.* 27:967-972, 1974.
 7. **Haegert, D. G.**, Stuart, J. and Smith, J. L. Acute lymphoblastic leukaemia: A heterogeneous disease. *Brit. Med. J.* 1:312-315, 1975.
 8. Wilson, A. B., **Haegert, D. G.**, and Coombs, R. R. A. Increased sensitivity of the rosette-forming reaction of human T lymphocytes with sheep erythrocytes afforded by papain treatment of the sheep cells. *Clin. Exp. Immunol.* 22:177-182., 1975.
 9. **Haegert, D. G.**, and Coombs, R. R. A. Immunoglobulin positive mononuclear cells in human peripheral blood: detection by mixed antiglobulin and direct antiglobulin rosetting reactions. *J. Immunol.* 116:1426-1430, 1976. *Clin. Exp. Immunol.* 24:280-286.
 10. Payne, S. V., Jones, D. B., **Haegert, D. G.**, Smith, J. L., and Wright, D. H. T and B lymphocytes and Reed-Sternberg cells in Hodgkin's disease lymph nodes and spleens. *Clin. Exp. Immunol.* 24:280-286.
 11. **Haegert, D. G.** Neuraminidase - trypsin-induced exposure of membrane receptors for IgG and IgM molecules on human peripheral blood lymphocytes. *Clin. Exp. Immunol.* 27:457-463, 1977.
 12. Coombs, R. R. A., Wilson, A. B., Eremin, O., Gurner, B. W., **Haegert, D. G.** et al. Comparison of the direct antiglobulin rosetting reaction with the mixed antiglobulin rosetting reaction for the detection of immunoglobulin on lymphocytes. *J. Immunol. Meth.* 18:45-54, 1977.
 13. **Haegert, D. G.**, Hurd, C., and Coombs, R. R. A. Comparison of the direct antiglobulin rosetting reaction with direct immunofluorescence in the detection of surface membrane immunoglobulin on human peripheral blood lymphocytes. *Immunology* 34:533, 1978.
 14. **Haegert, D. G.** Observations on the number of immunoglobulin bearing lymphocytes in human peripheral blood with the mixed antiglobulin rosetting reaction and direct immunofluorescence. *J. Immunol.*
 15. **Haegert, D. G.** Technical improvements in the mixed antiglobulin rosetting reaction with consequent demonstration of high numbers of immunoglobulin-bearing lymphocytes in viable preparations of human peripheral blood. *J. Immunol. Methods* 22:73-81, 1978.
 16. **Haegert, D. G.** Phagocytic peripheral blood monocytes from rabbits and humans that express membrane receptors specific for IgM molecules; evidence that incubation with neuraminidase exposes cryptic IgM(Fc)receptors. *Clin. Exp. Immunol.* 35:484-490, 1979.

17. **Haegert, D. G.** Delineation of IgM-receptor bearing human T and B lymphocytes using a direct plaque forming cell (PFC) assay. *J. Immunol. Methods* 28:83-95, 1979.
18. **Haegert, D. G.** Demonstration of IgM receptors on human peripheral blood monocytes using a direct plaque forming cell (PFC) assay. *J. Immunol. Methods* 28:97-104, 1979.
19. **Haegert, D. G.** Demonstration of surface membrane immunoglobulin on L lymphocytes by the mixed antiglobulin rosetting reaction (MARR) and by the direct antiglobulin rosetting reaction (DARR). *Immunology* 38:459-464, 1979.
20. **Haegert, D. G.** and Coombs, R. R. A. Hypothesis: Do human B and null lymphocytes form a single immunoglobulin-bearing population? *Lancet* ii:1051-1053, 1979.
21. **Haegert, D. G.** Are most "null" cells B cells? *Lancet* ii:308, 1980.
22. **Haegert, D. G.** Demonstration of immunoglobulin-related molecules on human peripheral blood T lymphocytes using chicken anti-F(ab')₂ and anti-IgM antibodies. *Immunology* 41:663-671, 1980.
23. **Haegert, D. G.** Review article: The mixed antiglobulin rosetting reaction (MARR) and the direct antiglobulin rosetting reaction (DARR): sensitive tests for demonstration of immunoglobulin-bearing B lymphocytes. *J. Immunol. Methods* 41:1-8, 1981.
24. **Haegert, D. G.** Human peripheral blood T lymphocytes express α -, μ - and F(ab¹)₂-related determinants in their surface membranes. *Clin. Exp. Immunol.* 44:467-475, 1981.
25. **Haegert, D. G.,** and M. Michaud. Test systems for detection of human T associated Ig-related surface determinants using chicken antiglobulin reagents. *J. Immunol. Methods* 46:165-175, 1981.
26. **Haegert, D. G.** Review article: Rosette tests for T and B lymphocyte immunoglobulin. *Immunology Today* 2, 10:200-204, 1981.
27. **Haegert, D. G.** T cell antigen receptors. *Anticancer Research* 2:219-226, 1982.
28. **Haegert, D. G.** and Timm, M. Expression of immunoglobulin-cross-reactive molecules by neoplastic human T cells. *Immunology* 50:447-459, 1983.
29. **Haegert, D. G.** The direct and mixed antiglobulin rosetting reactions. *Methods in Enzymology, Immunochemical Techniques*, (edited by G. di Sabato, J. J. Langone, H. van Vunakis), 1984. (invited review).
30. **Haegert, D. G.** Expression of T3 and T11 determinants on human peripheral lymphocytes as analyzed by the indirect antiglobulin rosetting reaction and indirect immunofluorescence. *Clin. Exp. Immunol.* 61:657-664, 1985.

31. **Haegert, D. G.** Demonstration of T4, T8, M¹ and B⁷ determinants on human T cells with a rosette test: implications for the assay specificity of monoclonal antibodies. *J. Immunol. Methods* 82:261-266, 1985.
32. **Haegert, D. G.**, Furlong, M. D., J. L. Smith. Coexpression of T3 and immunoglobulin in hairy cells. *Scan. J. Haematol.* 37:196-202, 1986.
33. **Haegert, D. G.**, and Smith, J. L. Coexpression of T3 and immunoglobulin in neoplasms of early B cells: a report of two cases. *Eur. J. Haematol.* 38:312-319, 1987.
34. Smith, J. L., **Haegert, D. G.** et al. CD3+, CD8+ T cell lymphocytosis masking B cell leukaemia. *J. Clin. Path.* 41:746-752, 1988.
35. **Haegert, D. G.**, and Smith, J. L. Unexpected Mab reactivities in lymphoid neoplasia. *Immunol. Today* 9:193, 1988.
36. **Haegert, D. G.**, Michaud, M., Schwab, C. Is HLA class II allo genotyping universally applicable. *Immunol. Today*, 9:256, 1988.
37. Smith, J. L., **Haegert, D. G.** et al. Phenotypic and genotypic heterogeneity of peripheral T cell lymphomas. *Brit. J. Cancer*, 58, 723-729, 1988.
38. **Haegert, D. G.**, Michaud, M., Schwab, C., Tansey, C., Décary, F., Francis, G. HLA-DRβ-DRα and DQβ restriction fragment length polymorphisms in multiple sclerosis. *J. Neurosc. Research* 23, 46-54, 1989.
39. Gregoire, M., Rosenberg, L., **Haegert, D.**, Illescu, F. Pancreatic pseudocyst rupture into the renal collecting system. *Pancreas* 4:751-754, 1989.
40. **Haegert, D. G.**, Michaud, M., Schwab, C., Francis, G. S. Multiple sclerosis and HLA class II susceptibility and resistance genes. *J. Neurosc. Research*, 26:66-73, 1990.
41. Salvi, M., Zhang, Z.-G., **Haegert, D.** et al. Patients with endocrine ophthalmopathy not associated with overt thyroid disease have multiple thyroid immunological abnormalities. *J. Clin. Endocrinol. Metab.* 70:89-94, 1990.
42. **Haegert, D. G.**, Michaud, M., Francis, G. HLA class II genes and susceptibility and resistance to multiple sclerosis in French Canadians. *Canadian Journal of Neurological Sciences* 17:382-386, 1990.
43. Howell, W. M., Sage, D. A., **Haegert, D. G.**, Evans, P. R., Smith, J. L. PCR-SSO typing for DPβ alleles. *Eur. J. Immunogenetics*, 18:81-95, 1991.
44. Howell, W. M., Sage, D. A., Evans, P. R., Smith, J. L., Francis, G. S., **Haegert, D. G.** No association between susceptibility to multiple sclerosis and HLA-DPB1 alleles in the

- French Canadian population. *Tissue Antigens*, 37:156-160, 1991.
45. Wall, J. R., Salvi, M., Bernard, N.F., **Haegert, D.** Thyroid-associated ophthalmopathy - a model for the association of organ-specific autoimmune disorders. *Immunology Today*, 12:150-3, 1991.
 46. Shiroky, J. B., Frost, A., Skelton, J. D., **Haegert, D. G.** et al. Complications of immunosuppression associated with weekly low dose methotrexate. *J. Rheumatol.* 18:1172-5, 1991.
 47. **Haegert, D. G.**, Francis, G. S. Contribution of a single DQ β chain residue to multiple sclerosis in French Canadians. *Human Immunology* 34:85-90, 1992.
 48. Shiroky, J., K. Watanabe-Duffy, J. Leclerc, **D. G. Haegert**, and M. M. Newkirk. Pitfalls in linking the detection of viral genomes to the pathogenesis of proliferative disorders - the Herpes family viruses and lymphoproliferative disorders. *Immunol. Infect. Dis.* 2:287-291, 1992.
 49. **Haegert, D. G.**, Muntoni, F., Murru, M. R. et al. HLA-DQA1 and -DQB1 associations with multiple sclerosis in Sardinia and French Canada: evidence for immunogenetically distinct patient groups. *Neurology* 43:548-552, 1993.
 50. **Haegert, D. G.**, Francis, G.S. HLA-DQ polymorphisms do not explain HLA class II associations with multiple sclerosis in two Canadian patient groups. *Neurology* 43:1207-1210, 1993.
 51. Howell, W. M., Evans, P. R., Devereux, S. A., Sage, D. A., Smith, J. L., **Haegert, D. G.** Absence of strong HLA-DR/DQ-DP linkage disequilibrium in British and French Canadian caucasoid populations. *Eur J Immunogenetics* 20:363-371, 1993.
 52. **Haegert, D. G.**, Muntoni, F., Murru, M.R. et al. HLA and multiple sclerosis. *Neurology* 43:2426 (correspondence), 1993.
 53. **Haegert, D. G.**, Marrosu, M. G. Genetic susceptibility to multiple sclerosis. *Annals of Neurology* 36:S204-S210, 1994.
 54. Hibberd, P. L., **Haegert, D. G.**, Sadovnick, A. D. A glossary of terms frequently used in epidemiology and genetics. *Ann Neurol* 36:S244-247, 1994.
 55. Griffin, M., Parai, M., Fernandez, D., Cummings, T., **Haegert, D.**, Kwan A. Amyloid tumor of the sacrum: a case report and literature review. *Acta Cytologica* 39:503-506, 1995.
 56. **Haegert, D. G.**, Swift, F. V., Benedikz, J. Evidence for a complex role of HLA class II genotypes in susceptibility to multiple sclerosis in Iceland. *Neurology* 46:1107-1111,

- 1996.
57. Daniel, E. S., **Haegert, D. G.** Method to identify biases in polymerase chain reaction (PCR) amplification of T cell receptor variable region genes. *Biotechniques* 20:600-602, 1996.
 58. Daniel, E. S., **Haegert, D. G.** Quantitation of T-cell receptor transcripts using a wet agarose gel method. *Biotechniques* 21:374-378, 1996.
 59. Daniel, E. S., Gadag, V. **Haegert, D. G.** A method of data analysis that elucidates contributions to the T-cell receptor repertoire. *BioTechniques* 23:78-82, 1997.
 60. Cowan, T., **Haegert, D. G.** Influences of PCR amplification biases on the human T cell receptor J beta (BJ) repertoire. *Quantitative PCR techniques, 1997. (Update Series, BioTechniques Books), pp.38-40.*
 61. Daniel, E. S., **Haegert, D. G.** Method to identify biases in polymerase chain reaction (PCR) amplification of T cell receptor variable region genes. *Quantitative PCR techniques, 1997. (Update Series BioTechniques Books), pp. 33-37.*
 62. **Haegert, D. G.** , Cowan, T., Murray, T. J., Gadag, V., O'Connor, P., Does a shift in the T-cell receptor repertoire precede the onset of multiple sclerosis? *Neurology, 53:485-90, 1999.*
 63. **Haegert, D. G.** The initiation of multiple sclerosis: a new infectious hypothesis. *Medical Hypotheses, 60: 165-170, 2003.*
 64. **Haegert, D. G.**, Galutira, D., O'Connor, P., Murray, J., Duquette, P., Gadag, V. Identical twins discordant for MS have a shift in their T-cell receptor repertoires. *Clinical and Experimental Immunology, 134: 532-7, 2003.*
 65. **Haegert, D. G.** D. Galutira, J. Murray, P. O' Connor, P. Duquette, V. Gadag. Identical twins discordant for multiple sclerosis have altered T-cell receptor repertoires. *Multiple Sclerosis, 9: S10, 2003.*
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