

University of British Columbia

Curriculum Vitae

Date: 25 January 2016

Initials:

1. **SURNAME:** Friedman **FIRST NAME:** Jan **MIDDLE NAME(S):** Marshall
2. **DEPARTMENT/SCHOOL:** Medical Genetics
3. **FACULTY:** Medicine
4. **PRESENT RANK:** Professor **SINCE:** 1 July 1989
5. **POST-SECONDARY EDUCATION:**

University or Institution	Degree	Subject Area	Dates
Tulane University, New Orleans	M.D.		1965-1971
Tulane University, New Orleans	M.S.	Biochemistry	1967-1971
Children's Memorial Hospital, Chicago		Internship (Straight Pediatrics)	1971-1972
Children's Memorial Hospital, Chicago		Residency (Pediatrics)	1972-1973
University of Washington, Seattle		Fellowship (Medical Genetics)	1973-1976
University of Washington, Seattle	Ph.D.	Genetics	1973-1977

Special Professional Qualifications

License to Practice Medicine, Washington - 1973
American Board of Pediatrics- Fellow - 1975
License to Practice Medicine, Illinois - 1976
American Board of Medical Genetics - Fellow -1982
License to Practice Medicine, British Columbia -1986
Canadian College of Medical Geneticists - Fellow -1987
Royal College of Physicians and Surgeons of Canada - Fellow -1993

6. EMPLOYMENT RECORD

University, Company, or Organization	Rank or Title	Dates
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Prior to coming to UBC

Dept. of Medicine, University of Washington	Acting Instructor	1976
Dept. of Pediatrics, Northwestern University	Assistant Professor	1976-1978
Depts. of Obstetrics & Gynecology and of Pediatrics, University of Texas Health Science Center at Dallas	Assistant to Associate Professor and Chief, Div. of Clinical Genetics	1978-1986

Since coming to UBC

University of British Columbia, Dept. of Medical Genetics	Associate Professor	July 1986-June 1989
University of British Columbia, Dept. of Medical Genetics	Acting Clinical Director	July 1988-August 1989
University of British Columbia, Dept. of Medical Genetics	Acting Head	July 1989-January 1992
University of British Columbia, Dept. of Medical Genetics	Professor	July 1989-present
University of British Columbia, Dept. of Medical Genetics	Head	February 1992-December 1999
University of British Columbia, Faculty of Medicine	Acting Associate Dean, Research	January 2010 – December 2012
Child & Family Research Institute	Acting Executive Director	January 2010 – December 2012

Date of granting tenure at UBC: 1 July 1989

7. LEAVES OF ABSENCE

University, Company or Organization at Which Leave was taken	Type of Leave	Dates
Centers for Disease Control and Prevention, Atlanta, Georgia, U.S.A.	Administrative/Study	January – December 2000

8. TEACHING

(a) Areas of special interest and accomplishments

Course Director, MEDG 440 (Medical Genetics): 1987-1998.

Course Director, MEDG 530 (Advanced Human Genetics): 1997-1999, 2001-2004, 2009 - 2013

(b) Courses Taught at UBC:

Session	Course Number	Scheduled Hours	Class Size	Hours Taught			
				Lecture	Tutorial	Labs	Other
86-87W	MEDG 440	36	125	3	7		
87-88W	MEDG 440	38	125	5	7		
88-89W	MEDG 440	41	125	7	8		
89-90W	MEDG 440	43	125	8	8		
90-91W	MEDG 440	45	125	8	8		
91-92W	MEDG 440	45	125	8	8		
92-93W	MEDG 440	45	125	11			
93-94W	MEDG 440	45	125	10			
94-95W	MEDG 440	45	125	10			
95-96W	MEDG 440	45	125	10			
96-97W	MEDG 440	45	125	10			
97-98W	MEDG 530	36	15		36		
98-99W	MEDG 530	36	8		36		
99-00W	MEDG 530	36	15		36		
00-01W	MEDG 530	9	25		9		
01-02W	MEDG 530	24	11		24		
02-03W	MEDG 530	37.5	17		37.5		
03-04W	MEDG 530	37.5	22		37.5		
04-05W	MEDG 530	12	8		12		
05-06W	MEDG 530	12	7		12		

06-07W	MEDG 530	12	8		12		
07-08W	MEDG 530	12	7		12		
08-09W	MEDG 530	37.5	21		37.5		
09-10W	MEDG 530	37.5	25		37.5		
10-11W	MEDG 530	37.5	19		37.5		
10-11W	FMED 427	48	240	1			
11-12W	MEDG 530	37.5	17		37.5		
11-12W	FMED 427	48	240	1			
12-13W	MEDG 530	37.5	23		37.5		
12-13W	MEDG 505	39	25	1			2
12-13W	FMED 427	48	288	1			
13-14W	MEDG 530	37.5	14		25		
13-14W	MEDG 505	39	25	1			1.5
14-15W	MEDG 530	37.5	6		12.5		
14-15W	MEDG 505	39	15	1			1.5

(c) Graduate Students Supervised

Student Name	Program Type	Year		Principal Supervisor	Co-Supervisors
		Start	Finish		
Krisztina Vasarhelyi	M.Sc. (Genetics)	1988	1990	J. M. Friedman	
Elena Lopez-Rangel	M.Sc. (Genetics)	1991	1993	J. M. Friedman	
Roxana Moslehi	M.Sc. (Medical Genetics)	1992	1994	J. M. Friedman	
Roxana Moslehi	Ph.D. (Medical Genetics)	1994	2000	J. M. Friedman	Steven Narod
Jacek Szudek	Ph.D. (Medical Genetics)	1995	2001	J. M. Friedman	Harry Joe
Ryan Woods	M.Sc. (Statistics)	1999	2000	Harry Joe	J. M. Friedman
Yinshan Zhao	Ph.D. (Statistics)	1999	2003	Harry Joe	J. M. Friedman

Student Name	Program Type	Year		Principal Supervisor	Co-Supervisors
		Start	Finish		
Dana Aeschliman	M.Sc. (Statistics)	2000	2001	Harry Joe	J. M. Friedman
Tracy Tucker	Ph.D. (Medical Genetics)	2000	2006	J. M. Friedman	Carolyn Brown
Bernard Lee	M.Sc. (Medical Genetics)	2001	2003	J. M. Friedman	
Sura Alwan	Ph.D. (Medical Genetics)	2003	2010	J. M. Friedman	
Farah Zahir	Ph.D. (Medical Genetics)	2005	2011	J. M. Friedman	
Kimberly Jett	Ph.D. (Medical Genetics)	2007	2014	J. M. Friedman	
Cristina Dias, M.D.	Ph.D. (Medical Genetics)	2010	Withdrew 2012	J. M. Friedman	
Karen Li	MSN	2012	2014	Bernie Garrett	J.M. Friedman
Hilal Al-Shekaili	M.Sc. (Medical Genetics)	2013		J. M. Friedman	
Alawi Habara	Ph.D. (Medical Genetics)	2013		J.M. Friedman	
Madeline Couse	M.Sc. (Genome Science and Technology)	2015		J.M. Friedman	

(d) Postdoctoral Fellows Supervised

Student Name	Program Type	Year		Principal Supervisor	Co-Supervisors
		Start	Finish		
Tracy Tucker, Ph.D.		2009	2010	J. M. Friedman	Sylvie Langlois
Farah Zahir, Ph.D.		2011		Marco Marra	J. M. Friedman
Isabel Filges, M.D.		2012	2013	J. M. Friedman	

(e) Continuing Education Activities (past 10 years)

1. Invited Speaker, The Gene Scene Public Forum, Science World, Vancouver, BC, March 2005
2. Invited Speaker, Neurology Rounds, BC Children's Hospital, Vancouver, BC, September 2006
3. Invited Speaker, Genetics Matters Public Forum, Science World, Vancouver, BC, November 2007
4. Invited Speaker, Pediatric Ground Rounds, BC Children's Hospital, Vancouver, BC, May 2008

5. Invited Speaker, Grand Rounds, Royal Columbia Hospital, Vancouver, BC, May 2008
6. Invited Speaker, Grand Rounds, UBC School of Public and Population Health, Vancouver, BC, February 2009
7. Invited Speaker, Paediatric Grand Rounds, University of Alberta, Edmonton, November 2010
8. Invited Speaker, Pathology & Laboratory Medicine Rounds, BC Children's Hospital, Vancouver, BC, May 2011
9. Invited Speaker, Cytogenetics Seminar, BC Children's & Women's Hospital, Vancouver, BC, September 2011
10. Invited Speaker, Education Rounds, Department of Family Practice, Mount St. Joseph Hospital, Vancouver, BC, October 2011
11. Invited Speaker, Department of Dermatology, Jikei University School of Medicine, Tokyo, Japan, November 2011
12. Invited Speaker, Paediatric Grand Rounds, BC Children's Hospital, Vancouver, BC, March 2012
13. Invited Speaker, Paediatric Grand Rounds, BC Children's Hospital, Vancouver, BC, March 2013
14. Invited Speaker, Family Practice Grand Rounds, Surrey Memorial Hospital, Surrey, BC, October 2013
15. Invited Speaker, Pathology Rounds, BC Children's Hospital, Vancouver, BC, March 2014
16. Invited Speaker, Pediatric Grand Rounds, BC Children's Hospital, Vancouver, BC, September 2014

(f) Visiting Lecturer (indicate university/organization and dates) (past 10 years)

1. Invited Speaker, National Center on Birth Defects and Developmental Disabilities, Centers for Disease Control and Prevention, Atlanta, Georgia, April 2004
2. Invited Speaker, Medicine Grand Rounds, Centre Hospitalier de L'Université de Montréal, Montreal, Quebec, January 2006
3. Invited Speaker (Bock Lecture), Grand Rounds, Alfred I DuPont Hospital for Children, Wilmington, Delaware, October 2008
4. Invited Speaker, Medical Genetics Seminar, Children's Hospital of Eastern Ontario, January 2009

9. SCHOLARLY AND PROFESSIONAL ACTIVITIES

(a) Areas of special interest and accomplishment

1. Clinical genomics
2. Clinical teratology
3. Neurofibromatosis

(b)&(c) Research or equivalent grants/contracts (indicate under COMP whether grants were obtained competitively (C) or non-competitively (NC))

Granting Agency	Subject	COMP	\$ for Entire Period Indicated	Years	Principal Investigator	Co-Investigators
Texas Department of Health	Texas Genetics Network	NC	\$451,394 US	1979-1986	J. M. Friedman	
U.S. National Institutes of Health (N01-HD-3-2819)	Registry of Cytogenetic Abnormalities and Phenylketonuria	C	\$540,907 US	1983-1986	J. M. Friedman	S.M. Mize P.N. Howard-Peebles
U.S. Public Health Service (MCJ-481002)	Teratogen Information System	C	\$1,320,979 US	1984-1990	J. M. Friedman	S.M. Mize
BC Children's Hospital Equipment Fund	Microcomputer for Clinical Genetics Unit	C	\$5,500	1986	J. M. Friedman	
British Columbia Health Care Research Foundation	Reproductive risks in the children of balanced carriers of chromosomal rearrangements	C	\$52,000	1987-1989	J. M. Friedman	
National Neurofibromatosis Foundation	Neurofibromatosis registry	C	\$253,000 US	1990-	J. M. Friedman	
British Columbia Medical Service Foundation	Uniparental disomy as a cause for malformations and/or developmental delay in inherited, apparently-balanced chromosomal rearrangements	C	\$29,645	1991-1992	J. M. Friedman	
British Columbia Health Care Research Foundation	Genetic studies of X-linked cleft palate	C	\$58,000	1991-1993	J. M. Friedman	P.J. Goodfellow
British Columbia Health Care Research Foundation	Numerical taxonomy of patients with neurofibromatosis type 1	C	\$46,100	1992-1994	J. M. Friedman	

Granting Agency	Subject	COMP	\$ for Entire Period Indicated	Years	Principal Investigator	Co-Investigators
Texas Neurofibromatosis Foundation	Analysis of clinical variability in NF1	C	\$30,000 US	1994-1996	J. M. Friedman	
National Neurofibromatosis Foundation	Updating and modernizing the NNFF International Database	NC	\$10,000 US	1997	J. M. Friedman	
US Army Neurofibromatosis Research Program	Analysis of phenotypic variability in neurofibromatosis type 1	C	\$472,447 US	1997-2001	J. M. Friedman	D. Viskochil
Association of Teachers of Preventive Medicine	Career Development Award	C	\$60,000 US	2001	J. M. Friedman	
National Neurofibromatosis Foundation	Neurofibromatosis Mutation Database	C	\$72,743 US	2001-2004	J. M. Friedman	
U.S. National Institutes of Health	Genotype-phenotype Relationships in Neurofibromatosis 2	C	\$61,506 US (UBC Subgrant)	2002-2004	M. MacCollin (Harvard University)	J. M. Friedman
Shriners' Hospitals	Tibial Dysplasia in NF1 (Pilot project)	C	\$15,000 US (UBC Subgrant)	2002	J. Carey (University of Utah)	J. M. Friedman
Shriners' Hospitals	Tibial Dysplasia in NF1	C	\$270,000 US (UBC Subgrant)	2004-2007	J. Carey (University of Utah)	J. M. Friedman
Canadian Foundation for Innovation (Innovation Fund)	Canadian Molecular Cytogenetics Platform	C	\$4,512,925	2004-2006	J. M. Friedman	R. Drouin, B. Knoppers, P. Lansdorp, S. Mai, S. Meyn, M. Marra, G. Rouleau, J. Squire, R. Weksberg

Granting Agency	Subject	COMP	\$ for Entire Period Indicated	Years	Principal Investigator	Co-Investigators
British Columbia Knowledge Development Fund	Canadian Molecular Cytogenetics Platform	C	\$1,653,033	2004-2006	J. M. Friedman	P. Lansdorp, M. Marra
Canadian Genetic Diseases Network	Health Care and Health Policy Challenges in Genetic Laboratory Services	C	\$11,500 (UBC subgrant)	2004-2006	F. Rousseau	J. M. Friedman and 15 others
Genome Canada	Genomic Tools for Diagnosis and Evaluation of Mental Retardation	C	\$2,779,731	2004-2007	J. M. Friedman, M. Marra	D. Albertson, O. Cohen, P. Eydoux, R. Holt, S. Jones, B. Knoppers, W. Lam, S. Langlois, C. Marra, D. Pinkel, E. Rajcan-Separovic, J. Schein
Canadian Institutes of Health Research	Health Care and Health Policy Challenges in Genetic Laboratory Services	C	\$43,760 (UBC subgrant)	2004-2007	F. Rousseau	J. M. Friedman and 15 others
Canadian Foundation for Innovation (Infrastructure Operating Fund)	Canadian Molecular Cytogenetics Platform	C	\$1,353,878	2005-2010	J. M. Friedman	R. Drouin, B. Knoppers, P. Lansdorp, S. Mai, S. Meyn, M. Marra, G. Rouleau, J. Squire, R. Weksberg
National Institutes of Health	Spinal Abnormalities in Neurofibromatosis 1	C	\$323,207 US (UBC subgrant)	2006-2010	D. Viskochil	J.M. Friedman, Z. Mughal, E. Schorry, D. Stevenson
US Army	Neurofibromatosis 1 in Old Age: International Interdisciplinary Analyses of the Issues	C	\$761,215 US	2006-2011	J.M. Friedman	P. Birch, T. Schooler

Granting Agency	Subject	COMP	\$ for Entire Period Indicated	Years	Principal Investigator	Co-Investigators
Michael Smith Foundation for Health Research	British Columbia Clinical Genomics Platform	C	\$50,000	2006	J.M. Friedman, M. Hayden	
Canadian Institutes of Health Research	Recurrent Copy Number Variants in Children with Mental Retardation	C	\$290,127	2007-2012	J.M. Friedman	S. Langlois, J. Michaud, F. Rousseau
Canadian Institutes of Health Research	CIHR Team in Constitutional Genomic Copy Number Variation	C	\$10,000	2007	J.M. Friedman	BM Knoppers, S Scherer, M Marra
Michael Smith Foundation for Health Research	British Columbia Clinical Genomics Platform	C	\$2,340,372	2007-2013	J.M. Friedman, M. Hayden	
US Army	Identification of Novel Biomarkers and Sub-Clinical Vasculopathy in Neurofibromatosis Type 1 Patients	C	\$58,960 US	2010-2012	J.M. Friedman	Sammy Chan, John Mancini
Canadian Institutes of Health Research	Massively parallel genomic sequencing for clinical identification of mutations that cause intellectual disability	C	\$450,872	2010-2015	J.M. Friedman	Marco Marra, Cornelius Boerkoel
APOGEE-Net/ CanGène Test Network	Next Generation Sequencing: towards guidelines for reporting incidental findings	C	\$25,000	2010-2013	J.M. Friedman	Francois Rousseau
Canadian Institutes of Health Research	Café Scientifique: A Public Discussion of Incidental Findings from Genomic Sequencing Technology	C	\$3,000	2010-2011	J.M. Friedman	
Genome Canada/CIHR	Finding of Rare Disease Genes in Canada	C	\$694,254	2011-2012	Kym Boycott	J.M. Friedman, J. Michaud
Children's Tumor Foundation	Treatment of NF1 Vasculopathy Using Cytokine Inhibition	C	\$15,000 US	2011-2012	J.M. Friedman	

Granting Agency	Subject	COMP	\$ for Entire Period Indicated	Years	Principal Investigator	Co-Investigators
US Army	A Phase II Trial on the Effect of Low-Dose versus High-Dose Vitamin D Supplementation on Bone Mass in Adults with Neurofibromatosis I	C	\$178,231	2012-2016	D. Viskochil	J.M. Friedman
APOGEE-Net/ CanGène Test Network	Development and evaluation of a patient decision aid for genomic sequencing - Pilot Project	C	\$25,000	2012-2014	J.M. Friedman	
APOGEE-Net/ CanGène Test Network	Development and evaluation of a patient decision aid for genomic sequencing - Fellowship	C	\$35,700	2013-2014	J.M. Friedman	
APOGEE-Net/ CanGène Test Network	Development and evaluation of Continuing Medical Education eLearning Course: Direct-To-Consumer (DTC) Genomic Testing: What Physicians Need to Know - Fellowship	C	\$17,500	2013-2014	J.M. Friedman	Patricia Birch
APOGEE-Net/ CanGène Test Network	Assessing shared-decision making in genetic counselling of high-risk pregnancies	C	\$25,000	2013-2015	J.M. Friedman	Patricia Birch, Shelin Adam
Canadian Institutes of Health Research	Assessing the clinical utility of DECIDE: a novel e-counselling aid for clinical genome-wide sequencing	C	\$528,057	2014-2017	J.M. Friedman	Nicholas Bansback, Anna Lehman
BC Children's Hospital Foundation	CAUSES Clinic (Clinical Assessment of the Utility of Sequencing and Evaluation as a Service)	NC	\$3,000,000	2015-2018	J.M. Friedman	Clara van Karnebeek, Anna Lehman, Alison Elliott

Granting Agency	Subject	COMP	\$ for Entire Period Indicated	Years	Principal Investigator	Co-Investigators
Canadian Institutes of Health Research / Genome Canada	Canadian International Data Sharing Initiative (CanSHARE)	C	\$1,500,000	2015-2018	Bartha Knoppers	Michael Brudno, J.M. Friedman
Genome BC; PHSA	RAPIDOMICS: Rapid genomic sequencing in the neonative intensive care unit	C	\$400,000	2016-2017	Horacio Osioovich Jan Christilaw (user)	J.M. Friedman, Alison Elliott, Matt Farrer, Larry Lynd, Anna Lehman

(d) Invited Presentations (Last 10 years)

1. Invited Speaker, Wellcome Trust DECIPHER Workshop, Hinxton, UK, June 2005
2. Invited Speaker, Symposium on Pregnancy Exposure Information, Teratology Society Annual Meeting, St. Pete Beach, FL, June 2005
3. Invited Speaker, Genome Structural Variation Symposium, University of Toronto, July 2005
4. Invited Speaker, Symposium on Neurofibromatosis – diagnosis and therapy, Universität Hamburg, Hamburg, Germany, November 2005
5. Invited Speaker, V Congress of the Federation of Pro-Mental Health Societies, Alcapulco, Mexico, March 2006
6. Invited Speaker, Drug Information Association Workshop on Monitoring and Evaluating the Fetal Effects of Drug Exposure During Pregnancy, Washington, DC, May 2006
7. Invited Speaker, CIHR Institute of Genetics Lectureship, IWK Children's Hospital, Halifax, NS, May 2006
8. Invited Speaker, Children's Tumor Foundation International Neurofibromatosis Research Consortium, Aspen, CO, June 2006
9. Invited Keynote Speaker, Organization of Teratogen Information Specialists, Tucson, AZ, June 2006
10. Invited Speaker, Centre de recherche de Hôpital Ste-Justine, Monreal, QC, October 2006
11. Invited Speaker, Genome BC Winter Symposium, Vancouver, BC, January 2007
12. Invited Speaker, Medications and Pregnancy Symposium, Montreal, QC, April 2007
13. Invited Speaker, Northwest Society for Developmental and Behavioural Pediatrics, Vancouver, BC, April 2007
14. Invited Speaker, DECIPHER Workshop, Hinxton, UK, May 2007
15. Invited Speaker, Organization of Teratogen Information Specialists, Pittsburgh, PA, June 2007
16. Invited Speaker, Children's Tumour Foundation International Neurofibromatosis Research Consortium, Park City, Utah, June 2007

17. Invited Speaker, Department of Biological Sciences, Simon Fraser University, Burnaby, BC, September 2007
18. Invited Speaker, British Columbia Neurofibromatosis Foundation, Vancouver, BC, Sept 2007
19. Invited Speaker, Child and Family Research Institute research presentations, Vancouver, BC, September 2007
20. Invited Speaker, Canadian College of Medical Geneticists Annual Meeting, Vancouver, BC, November 2007
21. Invited Speaker, Genome BC Winter Symposium, Vancouver, BC, January 2008
22. Invited Speaker, Association des médecins généticiens du Québec Annual Meeting, Québec City, May 2008
23. Invited Speaker, International Society for Prenatal Diagnosis Annual Meeting, Vancouver, BC, June 2008
24. Invited Speaker, Canadian Bioethics Society Conference, St. John's, Newfoundland, June 2008
25. Invited Speaker (Robert Brent Lecture), Teratology Society Annual Meeting, Monterey, California, June 2008
26. Invited Speaker (Irene Uchida Lecture), University of Manitoba, Winnipeg, April 2009
27. Invited Speaker, Pediatric Research Rounds, John Buhler Research Centre, Winnipeg, Manitoba, April 2009
28. Invited Speaker, Thomas Shepard Festschrift, University of Washington, Seattle, WA, May 2009
29. Invited Speaker (Josef Warkany Lecture), Teratology Society Annual Meeting, San Juan, Puerto Rico, June 2009
30. Invited Speaker, Neurofibromatosis Canada Conference, Vancouver, BC, April 2010
31. Keynote Speaker, Society for Pediatric and Perinatal Epidemiological Research, Seattle, WA, June 2010
32. Invited Speaker, British Columbia Neurofibromatosis Foundation, Kelowna, BC, September 2010
33. Invited Speaker, Canadian College of Medical Geneticists Annual Scientific Symposium, Halifax, Nova Scotia, October 2010
34. Invited Speaker, First International ENTIS and OTIS Joint Meeting, Jerusalem, Israel, March 2011
35. Invited Speaker, Children's Tumor Foundation Bone Workshop, New York, NY, April 2011
36. Invited Speaker, Alberta Neurofibromatosis Association Symposium, Calgary, AB, April 2011
37. Invited Speaker, ILSI Health and Environmental Sciences Institute Workshop on Consensus List of Developmental Toxicants, Washington, DC, May 2011
38. Invited Speaker, Teratology Society Education Course, San Diego, CA, June 2011
39. Invited Speaker, Organization of Teratology Information Specialists Annual Meeting, San Diego, CA, June 2011
40. Invited Speaker, Teratology Society Annual Meeting, San Diego, CA, June 2011
41. Invited Speaker, Congress of the Canadian Neurological Sciences Federation, Vancouver, BC, June 2011
42. Invited Speaker, International Workshop on Aging in Neurofibromatosis-1, Oklahoma City, OK, September 2011
43. Invited Speaker, British Columbia Neurofibromatosis Foundation, Richmond, BC, October 2011

44. Invited Speaker, Japanese Society of Recklinghausen Disease Annual Meeting, Tokyo, Japan, November 2011
45. Invited Speaker, British Columbia Neurofibromatosis Foundation, Webinar, March 2012
46. Invited Speaker, Genomic Disorders 2012 – The Genomics of Rare Diseases, Cambridge, UK, March 2012
47. Invited Speaker, Children's Tumor Foundation Conference 2012, New Orleans, LA, June 2012
48. Invited Speaker, Organization of Teratology Information Specialists, 25th International Conference, Baltimore, MD, June 2012
49. Invited Speaker (Distinguished Medical Research Lecture), Faculty of Medicine, University of British Columbia, Vancouver, BC, January 2013
50. Invited Speaker, Genome BC Winter Symposium, Vancouver, BC, January 2013
51. Invited Speaker, CDC Treating for Two: Safe Medication Use in Pregnancy Expert Meeting, Atlanta, GA, January 2013
52. Invited Speaker, Canadian Institute for the Administration of Justice Seminar, Vancouver, BC, April 2013
53. Invited Speaker, Canadian Society for Pharmaceutical Sciences, Vancouver, BC, June 2013
54. Invited Speaker (McCormick-Crichton Lecture), Vancouver Pediatric Ophthalmology and Strabismus Conference, Vancouver, BC, September 2013
55. Invited Speaker, British Columbia Neurofibromatosis Foundation, Richmond, BC, October 2013
56. Invited Speaker, TGIF Seminar, Centre for Molecular Medicine and Therapeutics and Child & Family Research Institute, Vancouver, BC, October 2013
57. Invited Speaker, Pediatric Oncology Group of Ontario, Toronto, ON, November 2013
58. Invited Keynote Speaker, APOGEE-Net Annual Meeting, Montreal, QC, November 2013
59. Invited Speaker, University of Washington, Department of Pediatrics, Seattle, WA, June 2014
60. Invited Speaker, Northwest Pediatric Neurology Exchange, Vancouver, BC, September 2014
61. Invited Speaker, Canadian College of Medical Geneticists, Vancouver, BC, November 2014
62. Invited Speaker (Robert Brent Lecture), Teratology Society Annual Meeting, Montreal, QC, June 2015
63. Invited Speaker, 19th International Conference on Prenatal Diagnosis and Therapy, Washington, DC, July 2015
64. Invited Speaker, Manitoba Neurofibromatosis Symposium, Winnipeg, MB, October 2015

(e) Conference Participation (Organizer, Keynote Speaker, etc.) (Last 10 years)

1. Session Chair, Invited Speaker Symposium, American Society of Human Genetics Annual Meeting, New Orleans, Louisiana, October 2006
2. Session Chair, HUGO Meeting, Montreal, QC, May 2007
3. Session Chair, Contributed Paper Session, Teratology Society Annual Meeting, Pittsburgh, PA June 2007
4. Session Chair, Invited Speaker Symposium, American Society of Human Genetics Annual Meeting, San Diego, California, October 2007

5. Session Co-Chair, Institute of Genetics, From Genes to Proteins, Cells, Organs and Patients, Toronto, ON, December 2007
6. Session Co-Chair, International Society for Prenatal Diagnosis Annual Meeting, Vancouver, BC, June 2008
7. Session Co-Chair, Teratology Society Annual Meeting, Monterey, CA June 2008
8. Session Co-Chair, Pediatric Academic Societies, Vancouver, BC, May 2010
9. Session Chair, Canadian College of Medical Geneticists Annual Scientific Symposium, Halifax, Nova Scotia, October 2010
10. Session Co-Chair, Teratology Society March of Dimes Symposium, San Diego, CA, June 2011
11. Session Co-Chair, Children's Tumor Foundation Neurofibromatosis Conference, Monterey, CA, June 2013
12. Invited Panelist, Terry Fox Research Institute, Vancouver, BC, November 2014
13. Co-moderator, Garrod Society Symposium, Vancouver, BC, May 2015

10. SERVICE TO THE UNIVERSITY

(a) Memberships on committees, including offices held and dates

1. UBC Faculty of Medicine Postgraduate Awards Committee - Member 1988-1992
2. UBC Faculty of Medicine Executive Committee - Member 1989-1999
3. Scientific Proposal Committee, UBC Medicine 2000, College of Advanced Biomedical Studies - Member 1991
4. UBC Faculty of Medicine Postgraduate Awards Committee - Chairman 1991-1992
5. Scientific Proposal Committee, UBC Medicine 2000, Institute for Infants, Child and Youth - Member 1991-1992
6. Scientific Proposal Committee, UBC Medicine 2000, Centre for Predictive Medicine - Member 1991-1992
7. Dean's Advisory Committee on Integration of Centres into the Faculty (of Medicine) - Member 1992-1993
8. President's Advisory Committee on the Selection of a Head for the Department of Biochemistry - Member 1992-1993
9. President's Advisory Committee on the Selection of a Head for the Department of Obstetrics & Gynaecology - Member 1992-1994
10. Dean's Review Committee for the Department of Health Care and Epidemiology - Chairman 1993
11. UBC Faculty of Medicine Search Committee for Associate Dean, Undergraduate Education - Member 1994
12. UBC Faculty of Medicine Budget Committee - Member 1994-1996
13. UBC Faculty of Medicine Phase 2 Part 1 Curriculum Development Committee - Member 1994-1997
14. UBC Faculty of Medicine Promotions & Tenure Committee - Member 1994-1998
15. UBC Faculty of Medicine, New Curriculum Overview Committee - Chairman 1995-1996
16. UBC Faculty of Medicine, Curriculum Management Committee - Member 1996-1999
17. UBC Faculty of Medicine, Dean's Committee to Review the Department of Pathology and Laboratory Medicine - Chair 1997

18. UBC Faculty of Medicine, Task Force on Budget - Member 1999
19. UBC Faculty of Medicine, Strategic Planning Steering Committee - Member 1999
20. UBC Faculty of Medicine, MD/PhD Committee - Member 2000-2002
21. UBC Faculty of Medicine, Dean's Committee to Review the Department of Medicine - Chair 2001
22. UBC Faculty of Medicine Executive Committee - Member 1989-1999, 2004-2005, 2010-2012
23. University of British Columbia Senior Appointments Committee - Member 2005-2009
- Chair 2007-2009
24. UBC Faculty of Medicine, Dean's Task Force on Undergraduate MD Curriculum Renewal -
Member 2009-2010
25. UBC Medical Genetics Teaching Award Committee – Member 2011-2013

Memberships on Committees at UBC-affiliated teaching hospitals

1. British Columbia Children's Hospital Research Advisory Committee - Member 1988 –1993
2. University Hospital Research Committee - Member 1989-1992
3. University Hospital Medical-Dental Advisory Committee - Member 1989-1993
4. Grace Hospital Medical Advisory Committee - Member 1989-1994
5. British Columbia Children's Hospital Medical Advisory Committee - Member 1989-1996
6. University Hospital Task Force on Shaughnessy Site Relations - Chairman 1991
7. Vancouver Hospital & Health Sciences Centre Medical Advisory Committee - Member 1993-1999
8. B.C. Women's Hospital Medical Advisory Committee - Member 1994-1996
9. B.C. Institute for Child & Family Health Research Advisory Committee - Member 1995-1997
10. Children's and Women's Health Centre of British Columbia Research and Education Advisory
Council - Chair 1998-1999
11. BC Research Institute for Children's and Women's Health Board of Directors - 1998-1999
12. Child & Family Research Institute Scientific Advisory Committee – Member 2005-present
– Chair 2010-2012

(b) Other service, including dates

1. University Hospital Active Medical Staff 1986-1993
2. Vancouver Hospital and Health Sciences Centre Consulting Medical Staff 1986-1993
3. Grace Hospital Active Medical Staff 1986-1994
4. B.C.'s Children's Hospital Active Medical Staff 1986-present
5. St. Paul's Hospital Consulting Medical Staff 1986-1999
6. Grace Hospital, Acting Head, Department of Medical Genetics 1989-1992
7. B.C.'s Children's Hospital, Acting Head, Department of Medical Genetics 1989-1992
8. University Hospital, Acting Head, Department of Medical Genetics 1989-1992
9. University Hospital, Head, Department of Medical Genetics 1992-1993
10. Grace Hospital, Head, Department of Medical Genetics 1992-1994
11. B.C.'s Children's Hospital, Head, Department of Medical Genetics 1992-1999

12. Vancouver Hospital and Health Sciences Centre Active Medical Staff 1993-1999
13. Vancouver Hospital and Health Sciences Centre, Head, Department of Medical Genetics 1993-1999
14. B.C. Women's Hospital Active Medical Staff 1994-present
15. B.C. Women's Hospital, Head, Department of Medical Genetics 1994-1999

11. SERVICE TO THE COMMUNITY

(a) Memberships on scholarly societies, including offices held and dates

1. American Academy of Pediatrics 1975-present
2. American Association for the Advancement of Science 1976-present
3. American Society of Human Genetics 1975-present
 - Member, Board of Directors 2000-2005
 - Treasurer 2000-2005
4. Association of Professors of Human and Medical Genetics, Founding Member 1994 - 2000
 - Member, Council 1994-1997
 - Founding President 1994 -1996
 - Past President 1996-1997
5. Canadian College of Medical Geneticists 1987-present
 - Member, Board of Directors 1993-1997
 - Vice-President 1994 -1995
 - President 1995 -1997
6. Global Alliance for Genomics and Health
 - Member 2015-present
 - Member, Regulatory and Ethics Working Group 2015 - present
 - Chair, Paediatric Task Team 2015 - present
7. International Congress of Human Genetics
 - Treasurer and Chair, Finance Committee 2009 - 2011
8. International Neurofibromatosis Foundation, Charter Member 1991-present
9. Society for Pediatric Research 1990-present
10. Teratology Society 1985-present
 - Member, Council 1995 -1998, 1999 - 2003
 - Vice President Elect 1999 – 2000
 - Vice President 2000 – 2001
 - President 2001 - 2002
11. Texas Genetics Society 1979-1986
 - Board of Directors 1983-1986

(b) Memberships on scholarly committees, including offices held and dates

1. American Board of Medical Genetics Clinical Genetics Examination Committee – Member 2000-2002
2. American Board of Medical Genetics Nominations Committee – Member 2002
3. American Society of Human Genetics Awards Committee – Member 1995-1998, 2007-2012
4. American Society of Human Genetics Executive Committee – Member 2000-2005.
5. American Society of Human Genetics Finance Committee – Chairman 2000-2005.
6. American Society of Human Genetics Genetic Databases Committee - Member 1994-1998.
7. American Society of Human Genetics Information and Education Committee
 - Member 1985-1994
 - Chairman 1992-1994
8. American Society of Human Genetics Local Arrangements Committee – Chairman 1981.
9. American Society of Human Genetics Public Policy Committee – Member 2000-2002.
10. American Society of Human Genetics Video History Committee – Member 2002-2006.
11. American Society of Human Genetics Journal Publisher Review Committee – Member 2007.
12. American Society of Human Genetics/Association of Professors of Human or Medical Genetics Joint Committee on Medical School Curricula – Member 2000-2002.
13. Canadian College of Medical Geneticists Accreditation of Centres Committee
 - Member 1988-1994
 - Chairman 1989-1994
14. Canadian College of Medical Geneticists Committee on Clinical Teratology
 - Member 1987-1998
 - Chairman 1990-1995
15. Canadian College of Medical Geneticists Sponsorship Committee – Chairman 1998-2002
16. Canadian College of Medical Geneticists Scientific Program Committee
 - Member 2005-2012
 - Chair 2008-2012
17. Canadian College of Medical Geneticists Constitution and Bylaws Committee
 - Member 2005-present
18. Canadian Institutes of Health Research, Institute of Genetics Clinical Genetics Planning and Priorities Committee – Chairman, 2001-2012
19. Canadian Institutes of Health Research, Institute of Genetics, Institute Advisory Board – Member 2005-2011
20. Global Alliance for Genomics and Health, Paediatric Task Team
 - Chairman, 2015- present
21. Organization of Teratogen Information Systems, *Ad Hoc* Committee on Accreditation and Certification – Member, 2003-2005
22. Royal College of Physicians and Surgeons of Canada Medical Genetics Examination Committee
 - Member 2000-2013

- Chairman 2001-2004
- 23. Teratology Society Membership Committee
 - Member 1991-1995
 - Chairman 1994-1995
- 24. Teratology Society Nominations Committee Member 1997-1998, 2009-present
- 25. Teratology Society Public Affairs Committee
 - Member 1990-1993, 1995-1998
 - Chairman 1995-1998
- 26. Teratology Society, Program Committee
 - Chairman, 2001
 - Member 2000-2004
- 27. Teratology Society, Education Committee – Member 2007-2011

(c) Memberships on other committees, including offices held and dates

1. Health Professional Advisory Committee, North Central Texas Chapter, March of Dimes Birth Defects Foundation - Chairman 1979-1981
2. Health Professional Advisory Committee, North Central Texas Chapter, March of Dimes Birth Defects Foundation- Member 1979-1986
3. Medical Advisory Board, Texas Neurofibromatosis Foundation - Member 1983-1986
4. Advisory Board, Texas Agent Orange Program- Member 1984-1985
5. U.S. National Institutes of Health Advisory Committee on Special Studies Relating to the Possible Long-Term Health Effects of Phenoxy Herbicides and Contaminants- Member 1984-1989
6. British Columbia Perinatal CASC- Member 1988-1991
7. British Columbia Provincial Advisory Committee on Medical Genetics - Member 1988-1992
8. Advisory Board, Genetic Counselors as Educators on Human Genome Issues, Chicago, Illinois - Member 1991-1993
9. Advisory Committee, B.C. Neurofibromatosis Foundation- Member 1991-present
10. B.C. Health Surveillance Registry Advisory Committee - Member 1991-1993
11. Genetics Task Force, U.S. Medical Licensing Examination - Member 1992-1993
12. Institute for Evaluating Health Risks Expert Committee on Reproductive and Developmental Toxicity - Member 1992-1993
13. Genetics Task Force, Canadian Childhood Cancer Control Programme – Co-chairman 1992-1993
14. Steering Committee, National Neurofibromatosis Foundation Mutation Database – Member 1992-2000
15. ASHG/ACMG/APHMG/NSGC Joint Taskforce on the Human Genetics Workforce, 1997-1998
16. National Academy of Sciences (U.S.) Committee on Toxicology, Subcommittee on Developmental Toxicants - Member, 1997-2000
17. Faculty Member, NNFF International Clinicians' Forum – Member, 1998-2000
18. National Neurofibromatosis Foundation Clinical Care Advisory Board – Member, 2000-present

19. U.S. Food and Drug Administration Pregnancy Labeling Advisory Subcommittee – Member 2000.
20. Genome BC Genomics Society and Ethics Advisory Committee – Member, 2009 – present

(d) Editorships (list journal and dates)

1. *American Journal of Human Genetics*, Education Section – Editorial Board Member, 1991-1993
2. *Teratology*, Section Editor (Epidemiology), 1992-1999
3. Medical Genetics Internet Journal Club – Editorial Board 1997-1998
4. *GeneClinics*, Associate Editor, 1997-present
5. *Clinical Genetics*, Editorial Board Member, 1998-present
6. *Genetics In Medicine*, Associate Editor, 1998-2006
7. *Birth Defects Research: Clinical and Molecular Teratology*, Associate Editor, 2002-present
8. *American Journal of Human Genetics*, Associate Editor, 2006-2009
9. *American Journal of Medical Genetics Part C: Seminars in Medical Genetics*, Guest Editor – *Emerging Issues in Teratology*, 2011
10. *Birth Defects Research: Clinical and Molecular Teratology*, Guest Editor – *OTIS 25th Anniversary Issue*, 2012

(e) Reviewer (journal, agency, etc. including dates)

Journals

1. *Archives of Pediatrics and Adolescent Medicine*
2. *American Journal of Epidemiology*
3. *American Journal of Human Genetics*
4. *American Journal of Medical Genetics*
5. *American Journal of Medical Genetics: Neuropsychiatric Genetics*
6. *American Journal of Obstetrics and Gynecology*
7. *American Journal of Pathology*
8. *American Journal of Pharmacogenomics*
9. *American Journal of Public Health*
10. *Annals of Human Genetics*
11. *Archives of Dermatology*
12. *Archives of Disease in Childhood*
13. *Birth Defects Research, Part A: Clinical and Molecular Teratology*
14. *Birth Defects Research, Part B: Developmental and Reproductive Toxicology*
15. *BMC Genomics*
16. *BMC Medical Genetics*
17. *BMC Public Health*
18. *British Journal of Clinical Pharmacology*

19. *British Journal of Pharmacology*
20. *Canadian Journal of Anesthesia*
21. *Canadian Journal of Neurological Sciences*
22. *Canadian Journal of Public Health*
23. *Canadian Medical Association Journal*
24. *Cancer*
25. *Cell Biochemistry and Biophysics*
26. *Circulation*
27. *Clinical Chemistry*
28. *Clinical and Investigative Medicine*
29. *Clinical Genetics*
30. *Community Genetics*
31. *Current Drug Safety*
32. *Dermatology*
33. *Diabetes*
34. *Early Human Development*
35. *EMBO Molecular Medicine*
36. *Epidemiology*
37. *European Journal of Pediatrics*
38. *Expert Reviews in Molecular Medicine*
39. *Expert Reviews of Neurotherapeutics*
40. *G3: Genes: Genomes: Genetics*
41. *Genetic Epidemiology*
42. *Genetics in Medicine*
43. *History of Intellectual Culture*
44. *Human Genetics*
45. *Human Molecular Genetics*
46. *Human Mutation*
47. *Human Reproduction*
48. *Journal of the American Academy of Dermatology*
49. *Journal of the American Medical Association*
50. *Journal of Clinical Endocrinology and Metabolism*
51. *Journal of Clinical Psychiatry*
52. *Journal of Intellectual Disability Research*
53. *Journal of Maternal-Fetal Medicine*
54. *Journal of Medical Case Reports*

55. *Journal of Medical Genetics*
56. *Journal of Molecular Diagnostics*
57. *Journal of Neurodevelopmental Disorders*
58. *Journal of Neurological Sciences*
59. *Journal of Pediatrics*
60. *Journal of Women's Health*
61. *Lancet Neurology*
62. *Mayo Clinic Proceedings*
63. *Nature Genetics*
64. *Neurobiology of Disease*
65. *Neurology*
66. *Neuroscience Letters*
67. *New England Journal of Medicine*
68. *Obstetrics and Gynecology*
69. *Paediatrics & Child Health*
70. *Pharmacoepidemiology and Drug Safety*
71. *Pediatrics*
72. *Prenatal Diagnosis*
73. *Reproductive BioMedicine Online*
74. *Reproductive Toxicology*
75. *Science*
76. *Teratology*

Granting Agencies

1. Ad Hoc Grant reviewer for March of Dimes Birth Defects Foundation
2. Ad Hoc Grant Reviewer for Medical Research Council (Canada)
3. Ad Hoc Grant Reviewer for National Institutes of Health (U.S.A.)
4. Ad Hoc Grant Reviewer for Hospital for Sick Children Research Foundation
5. Ad Hoc Grant Reviewer for Children's Hospital of Eastern Ontario Research Foundation
6. Ad Hoc Grant Reviewer for the Wellcome Trust
7. Grant reviewer for U.S. Army Neurofibromatosis Research Program
8. External Grant Reviewer for Canadian Institutes of Health Research
9. External Grant Reviewer for Institut des Maladies Rares, France
10. Ad Hoc Grant Review for National Institute of Environmental Health Sciences (USA)
11. Invited Reviewer, Canadian Institutes of Health Research Genetics Panel, 2008
12. Member, Canadian Institutes of Health Research Training Grant Committee A, 2009-2010

13. Member, NIH Rare Disease Research Network Review Committee, 2009

(f) External examiner (indicate universities and dates)

1. Kathryn North, M.D. Thesis, University of Sydney, Australia, Oct. 1993

(g) Consultant (indicate organization and dates)

1. Down Syndrome Guild – Medical Advisor, Dallas, TX, 1984-1986
2. Centers for Disease Control Study of Birth Defects Related to Electromagnetic Fields, Atlanta, Georgia - Consultant 1991
3. Biological Sciences Curriculum Study, Curriculum on Mapping and Sequencing the Human Genome, Colorado Springs, Colorado - Advisor 1991-1992
4. World Health Organization, Workshop on Harmonization of Risk Assessment in Reproductive Toxicity – Consultant, Washington, DC, 1995
5. Varivax Pregnancy Registry (U.S. Centers for Disease Control/Merck, Inc.) – Consultant 1995-2000
6. Ontario Council on Graduate Studies – Consultant, Toronto, ON, 1997
7. University of Calgary Faculty of Medicine – Consultant, Calgary, AB, 1997
8. Centers for Disease Control, Development of Policy on Release of Thalidomide for Therapeutic Use - Consultant. Atlanta, Georgia, 1997.
9. Montreal Children’s Hospital – Consultant. Montreal, Quebec, 2001
10. Centers for Disease Control, Pregnancy Registries – Consultant. Vienna, Virginia, 2002
11. University of California, Irvine, College of Medicine – Consultant. Irvine, CA, 2002
12. *BioMed Central: Medical Genetics* – Advisor, 2002
13. Centers for Disease Control, Workshop on West Nile Virus Infection in Pregnancy – Consultant. Denver, CO, 2003
14. Healthy Gametes and Great Embryos Project, McGill University – Consultant, Montreal, QC, 2003–2005
15. Bupropion in Pregnancy Register – Advisor, 2004–2008
16. Winnipeg Regional Health Authority – Consultant, Winnipeg, MB, 2005
17. Centers for Disease Control, Single Gene Disorder and Disability Special Emphasis Review Panel – Consultant, Atlanta, GA, 2006
18. Centers for Disease Control, Birth Defects Branch Review Panel, Consultant, Atlanta, GA, 2007
19. Centers for Disease Control, National Center on Birth Defects and Developmental Disabilities, Consultant, Atlanta, GA, 2007
20. i3 Drug-safety Consultant, Waltham, MA, 2007-2009
21. Glaxo, Smith, Kline – Consultant, Philadelphia, PA, 2008-2009
22. International Life Sciences Institute, Health and Environmental Sciences Institute, Development and Reproductive Toxicology Technical Committee – Consultant, Washington, DC, 2009-present

(h) Other service to the community

1. Executive Committee, Metro Dallas Chapter, March of Dimes Birth Defects Foundation, Member 1979-1981
2. Odyssey of The Mind, Coach 1986, 1987, 1989, 1990, 1992, 1993
3. Odyssey of The Mind, Judge 1988, 1991, 1994

12. AWARDS AND DISTINCTIONS

(a) Awards for Teaching (indicate name of award, awarding organizations, date)

1. UBC Department of Medical Genetics Clinical Teaching Award 1995 (first time awarded)
2. UBC Department of Medical Genetics Basic Science Teaching Award 2009
3. UBC Killam Teaching Award – Faculty of Medicine, 2010
4. Major awards for scholarship received by graduate students supervised:
 - Roxana Moslehi – University Graduate Fellowship
 - Women’s Hospital Foundation graduate fellowship
 - Jacek Szudek – University Graduate Fellowship
 - Tracy Tucker – University Graduate Fellowship
 - James Miller Award
 - Sura Alwan – Best Paper Presentation by a Graduate Student – Teratology Society Annual Meeting
 - University Graduate Fellowship
 - Child & Family Research Institute Graduate Fellowship
 - Farah Zahir – University Graduate Fellowship
 - Effie I. Lefeaux Scholarship
 - Harry and Florence Dennison Fellowship
 - UBC Killam Predoctoral Scholarship
 - Child & Family Research Institute Graduate Studentship
 - James Miller Award
 - NeuroDevNet Postdoctoral Fellowship
 - Bluma Tischler Award
 - CIHR Postdoctoral Fellowship
 - Kimberly Jett – University Graduate Fellowship
 - Cristina Dias – Child & Family Research Institute Postdoctoral Fellowship
 - Canadian Child Health Clinician Scientist Doctoral Award
 - Hilal Al-Shekaili – UBC Department of Medical Genetics Research Day Best Poster Award
 - GoldenHelix Annual Abstract Challenge Second Place

(b) Awards for Scholarship (indicate name of award, awarding organizations, date)

1. Tulane Scholar 1965-1967
2. NIH Special Traineeship 1967
3. Alpha Epsilon Delta 1967
4. Cancer Assoc. of Greater New Orleans Student Fellowship 1969-1970
5. "The Effects of Drugs on the Fetus and Nursing Infant" (by J.M. Friedman and J. Polifka), listed as one of the best health science books of 1997 by Doody's Rating Service
6. Nominated for the Charles C. Shepard Science Award for the most outstanding peer-reviewed research paper published by CDC scientists in 2002
7. Thomas Shepard Award, Organization of Teratogen Information Specialists, 2006
8. Nominated twice for the Charles C. Shepard Science Award for the most outstanding research paper published by CDC scientists in 2006
9. Nominated for the Charles C. Shepard Science Award for the most outstanding peer-reviewed research paper published by CDC scientists in 2007
10. Bock Prize and Lectureship in Developmental Biology and Genetics, Alfred I. DuPont Hospital for Children of the Nemours Foundation, 2008
11. Robert L. Brent Lecturer, Teratology Society, 2008
12. Nominated for the Charles C. Shepard Science Award for the most outstanding peer-reviewed research paper published by CDC scientists in 2008
13. Josef Warkany Lecturer, Teratology Society, 2009
14. Irene Uchida Lecturer, University of Manitoba, 2009
15. Terry Klassen Lecturer, Women's & Children's Health Research Institute, Edmonton, Alberta, 2010
16. Distinguished Medical Research Lecturer in Clinical Science, University of British Columbia, Faculty of Medicine, 2012
17. Fellowship, Canadian Academy of Health Sciences, 2012
18. Ronald E. Lemire Endowed Lecturer in Medical Teratology, Seattle, Washington, 2012
19. Robert L. Brent Lecturer, Teratology Society, 2015

(c) Awards for Service (indicate name of award, awarding organizations, date)

1. "Wings to Life" Award, March of Dimes Birth Defects Foundation 1984
2. Travis Ahrens Memorial Award, Down Syndrome Guild 1985
3. National Neurofibromatosis Foundation Center of Excellence Award 2001 (first award given)
4. Founders Award, Canadian College of Medical Geneticists, 2005
5. Edward W. Carney Distinguished Service Award, Teratology Society, 2015

13. OTHER RELEVANT INFORMATION

University of Washington, Department of Pediatrics, Affiliated Associate Professor to Clinical Professor:
1987-present

Oregon Health Sciences University, Department of Medical Genetics, Adjunct Associate Professor: 1987-
1990

**University of British Columbia
Publications Record**

Date: 25 January 2016

Initials:

SURNAME: Friedman

FIRST NAME: Jan

MIDDLE NAME(S): Marshall

01. Refereed Publications

(a) Journals

- 1 Friedman JM, Sternberg WH, Varela M, Barclay DL. Trisomy-21 in mother and child: Report of a case. *Obstet Gynecol* 36:731-734, 1970.
- 2 Friedman JM, Kaplan HG, Hall JG. The Jeune syndrome (asphyxiating thoracic dystrophy) in an adult. *Am J Med* 59:857-862, 1975.
- 3 Friedman JM. Inheritance of susceptibility to histocompatibility associated disease. *Lancet* 1:49, 1976.
- 4 Friedman JM, Fialkow PJ. Cell marker studies in human tumorigenesis. *Transplant Rev* 28:17-33, 1976
- 5 Friedman JM, Fialkow PJ. Viral "tumorigenesis" in man: Cell marker studies in condylomata acuminata. *Int J Cancer* 17:57-61, 1976.
- 6 Friedman JM, Fialkow PJ. Familial carcinoma of the pancreas. *Clin Genet* 9:463-469, 1976.
- 7 Friedman JM, Fialkow PJ, Davis SD, Ochs HD, Wedgwood RJ. Autoimmunity in the relatives of patients with immunodeficiency diseases. *Clin Exp Immunol* 28:375-388, 1977.
- 8 Friedman JM, Hanson JW, Graham CB, Smith DW. Saethre-Chotzen syndrome: A broad and variable pattern of skeletal malformations. *J Pediatr* 91:929-933, 1977.
- 9 Pachman LM, Jonasson O, Cannon RA, Friedman JM. HLA-B8 in juvenile dermatomyositis. *Lancet* 2:567-568, 1977.
- 10 Friedman JM, Fialkow PJ. The genetics of Graves disease. *Clin Endocrinol Metab* 7:47-65, 1978.
- 11 Friedman JM, Paul MH. Studies of the HLA complex in families of children with congenital heart disease. *Tissue Antigens* 11:479-483, 1978.
- 12 Fialkow PJ, Bryant JI, Friedman JM. Specificity of acquired clonal chromosomal abnormalities in New Zealand black mice. *Int J Cancer* 21:505-510, 1978.
- 13 Friedman JM, Fialkow PJ, East J, Bryant JI, Salo AC. Longitudinal studies of chromosomal abnormalities and reticulum cell sarcoma in New Zealand black mice. *Int J Cancer* 22:454-457, 1978.
- 14 Friedman JM, Fialkow PJ, Bryant JI, Reddy AL, Salo AC. Neoplastic behavior of chromosomally abnormal clones in New Zealand black mice. *Int J Cancer* 22:458-464, 1978.

- 15 Fialkow PJ, Singer JW, Adamson JW, Berkow RL, Friedman JM, Jacobson RJ, Moohr JW. Acute non-lymphocytic leukemia: Expression in cells restricted to granulocytic/monocytic differentiation. *N Engl J Med* 301:1-5, 1979.
- 16 Harrod MJE, Friedman JM, Jimenez J, Santos-Ramos R, Byrne JB, Dev VG, Weinberg AG. Rapidly adhering amniotic-fluid cells and prenatal diagnosis of neural tube defects. *Lancet* 2:99, 1979.
- 17 Friedman JM, Fialkow PJ. The genetics of diabetes mellitus. *Prog Med Genet* 4:199-232, 1980.
- 18 Friedman JM. Binary developmental commitments in normal and abnormal human morphogenesis. *Clin Genet* 18:34-41, 1980.
- 19 Friedman JM, Fish RD. The use of probability trees in genetic counselling. *Clin Genet* 18:408-412, 1980.
- 20 Friedman JM. Genetic disease in the offspring of "older" fathers. *Obstet Gynecol* 57:745-749, 1981.
- 21 Friedman JM, Harrod MJE. Genetic misconceptions. *South Med J* 75:56-58, 1982.
- 22 Friedman JM. Prenatal diagnosis of birth defects and the "right to life". *Perinatology-Neonatology* 6:13, 104, 1982.
- 23 Friedman JM, Harrod MJE. An unusual connective tissue disease in mother and son: A "new" type of Ehlers-Danlos syndrome? *Clin Genet* 21:168-173, 1982.
- 24 Friedman JM. Can maternal alcohol ingestion cause neural tube defects? *J Pediatr* 101:232-234, 1982.
- 25 Friedman JM, Fialkow PJ, Green CL, Weinberg MN. Probable clonal origin of neurofibrosarcoma in a patient with hereditary neurofibromatosis. *J Nat Cancer Inst* 69:1289-1292, 1982.
- 26 Neu KW, Friedman JM, Howard-Peebles PN. Hemifacial microsomia in cri-du-chat (5p-) syndrome. *J Cranio Genet* 2:295-298, 1982.
- 27 Friedman JM, Pachman LM, Maryjowski ML, Jonasson O, Battles ND, Crowe WE, Fink CW, Hanson V, Levinson JE, Spencer CH, Sullivan DB. Immunogenetic studies of juvenile dermatomyositis: HLA antigens in patients and their families. *Tissue Antigens* 21:45-49, 1983.
- 28 Friedman JM, Pachman LM, Maryjowski ML, Radvany RM, Crowe WE, Hanson V, Levinson JE, Spencer CH. Immunogenetic studies of juvenile dermatomyositis: HLA-DR antigen frequencies. *Arthritis Rheum* 26:214-216, 1983.
- 29 Friedman JM. Does Agent Orange cause birth defects? *Teratology* 29:193-221, 1984.
- 30 Seoud M, Santos-Ramos R, Friedman JM. Early prenatal ultrasonic findings in Klippel-Trenaunay-Weber syndrome. *Prenatal Diagnosis* 4:227-230, 1984.
- 31 Harrod MJE, Friedman JM, Santos-Ramos R, Rutledge J, Weinberg A. Etiologic heterogeneity of fetal hydrocephalus diagnosed by ultrasound. *Am J Obstet Gynecol* 150:38-40, 1984.
- 32 Harrod MJE, Friedman JM, Currarino G, Pauli RM, Langer LO. Genetic heterogeneity in spondyloepiphyseal dysplasia congenita. *Am J Med Genet* 18:311-320, 1984.

- 33 Friedman JM, Santos-Ramos R. Natural history of X-linked aqueductal stenosis in the second and third trimesters of pregnancy. *Am J Obstet Gynecol* 150:104-106,1984.
- 34 Rutledge JC, Friedman JM, Harrod MJE, Currarino G, Wright CG, Pickney L, Chen H. A "new" lethal multiple congenital anomaly syndrome: Joint contractures, Cerebellar hypoplasia, Renal hypoplasia, Urogenital anomalies, Tongue cysts, Shortness of limbs, Eye abnormalities, Defects of the heart, Gallbladder agenesis, and Ear malformations. *Am J Med Genet* 19:255-264, 1984.
- 35 Friedman JM. Genetic counselling for autosomal dominant diseases with a negative family history. *Clin Genet* 27:68-71, 1985.
- 36 Pachman LM, Friedman JM, Maryjowski-Sweeny ML, Jonnason O, Radvany RM, Sharp GC, Cobb MA, Battles ND, Crowe WE, Fink CW, Hanson V, Levinson JE, Spencer CH, Sullivan DB. Immunogenetic studies of juvenile dermatomyositis: III. Study of antibody to organ-specific and nuclear antigens. *Arthritis Rheumat* 28:151-157, 1985.
- 37 Bauer K, Howard-Peebles PN, Keele D, Friedman JM. Wolf Hirschhorn (4p-) syndrome due to 1:3 segregation of a maternal 4/21 translocation. *Am J Med Genet* 21:351-356, 1985.
- 38 Friedman JM, Aster RH. Neonatal alloimmune thrombocytopenic purpura and congenital porencephaly in two siblings associated with a "new" maternal antiplatelet antibody. *Blood* 63:1412-1415, 1985.
- 39 Howard-Peebles PN, Friedman JM. Unaffected carrier males in families with fragile X syndrome. *Amer J Hum Genet* 37:956-964, 1985.
- 40 Friedman JM. Umbilical dysmorphology: The importance of contemplating the belly button. *Clin Genet* 28:343-347, 1985.
- 41 Rutledge JC, Weinberg AG, Friedman JM, Harrod MJ, Santos-Ramos R. Anatomic correlates of ultrasonographic prenatal diagnosis. *Prenatal Diagnosis* 6:51-61, 1986.
- 42 Byrne JLB, Harrod MJE, Friedman JM, Howard-Peebles PN. Del(20p) with manifestations of arteriohepatic dysplasia. *Am J Med Genet* 24:673-678, 1986.
- 43 Friedman JM, Howard-Peebles PN. Inheritance of fragile X syndrome. *Am J Med Genet* 23:701-713, 1986.
- 44 Currarino G, Friedman JM. A severe form of congenital contractural arachnodactyly in two newborns. *Am J Med Genet* 25:763-773, 1986.
- 45 Currarino G, Friedman JM. Severe craniofacial sclerosis with multiple anomalies in a boy and his mother. *Pediatr Radiol* 16:441-447, 1986.
- 46 Christensen ML, Pachman LM, Schneiderman R, Patel DC, Friedman JM. Prevalence of Coxsackie B virus antibodies in patients with juvenile dermatomyositis. *Arthritis Rheumat* 29:1365-1370, 1986.
- 47 Friedman JM, Smith JP, Lerner BN, Helgeson JS, Howard-Peebles PN, Mize CE, Mize SG, Singleton WL, Smith ME. ReCAP: The Registry of Cytogenetic Abnormalities and Phenylketonuria. *Amer J Med Genet* 27:325-336, 1987.
- 48 Klein VR, Friedman JM, Brookshire GS, Brown OE, Edman CD. Kallmann Syndrome associated with choanal atresia. *Clin Genet* 31:224-227, 1987.

- 49 Palmer CG, Friedman JM, Howard-Peebles PN, Magenis RE, Miles JH, Patil SR. Chromosome analysis following ascertainment of fetal anomalies by ultrasound. *Prenatal Diagnosis* 7:551-555, 1987.
- 50 Friedman JM. Teratogens and growth. *Growth, Genetics and Hormones* 3(4):6-8, 1987.
- 51 Friedman JM. Teratogen update: Anesthetic Agents. *Teratology* 37:69-77, 1988.
- 52 Chitayat D, Friedman JM, Anderson L, Dimmick JE. Hepatocellular carcinoma in a child with familial Russell-Silver syndrome. *Amer J Med Genet* 31:909-914, 1988.
- 53 Hoefler G, Hoefler S, Watkins PA, Chen WW, Moser A, Baldwin V, McGillivray B, Charrow J, Friedman JM, Rutledge L, Hashimoto T, Moser HW. Biochemical abnormalities in rhizomelic chondrodysplasia punctata. *J Pediatr* 112:726-733, 1988.
- 54 Hall JG, Friedman JM, Keena BA, Popkin J, Jawanda M, Arnold W. Clinical, genetic and epidemiological factors in neural tube defects. *Amer J Hum Genet* 43:827-837, 1988.
- 55 Bamforth JS, Leonard CO, Chodirker BN, Chitayat D, Gritter HL, Evans JA, Keena B, Pantzar T, Friedman JM, Hall JG. Congenital diaphragmatic hernia, coarse facies and acral hypoplasia: Fryns syndrome. *Amer J Med Genet* 32:93-99, 1989.
- 56 Game K, Friedman JM, Paradise B, Norman MG. Fetal growth retardation, hydrocephalus, hypoplastic multilobed lungs, and other anomalies in 4 sibs: A new syndrome? *Amer J Med Genet* 33:276-279, 1989.
- 57 Vasarhelyi K, Friedman JM. Analyzing rearrangement breakpoint distributions by means of binomial confidence intervals. *Annals Hum Genet* 53:375-380, 1989.
- 58 Bamforth JSG, Riccardi VM, Thiessen P, Chitayat D, Friedman JM, Caruthers J, Hall JG. Encephalocraniocutaneous lipomatosis: Two case reports and a review of the literature. *Neurofibromatosis* 2:166-173, 1989.
- 59 Gilchrist DM, Friedman JM. Teratogens and IV cyclophosphamide. *J Rheumatol* 16:1008-1009, 1989.
- 60 Gilchrist DM, Friedman JM, Rogers PCJ, Creighton SP. Myelodysplasia and leukemia syndrome with monosomy 7 - a genetic perspective. *Amer J Med Genet* 35:437-441, 1990.
- 61 Game K, Friedman JM, Kalousek DK. Mild phenotypic abnormalities in combined del 9p2 and dup 3p2. *Amer J Med Genet* 35:370-372, 1990.
- 62 Chitayat D, Friedman JM, Johnston MM. Hypomelanosis of Ito - A non-specific marker of somatic mosaicism - Report of a case with trisomy 18 mosaicism. *Amer J Med Genet* 35:422-424, 1990.
- 63 Friedman JM, Little BB, Brent RB, Cordero JF, Hanson JW, Shepard TH. Potential human teratogenicity of frequently prescribed drugs. *Obstet Gynecol* 75:594-599, 1990.
- 64 Cooper G, Friedman JM. Interpreting chromosomal abnormalities using Prolog. *Computers Biomed Res* 23:153-164, 1990.
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Computer Programs and Databases

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