

CURRICULUM VITAE

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JAMES ELLIS

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Education

1985-1990 Ph.D. (Toronto) - Department of Medical Genetics.
1980-1984 B.Sc. Honours (McGill) - Department of Microbiology and Immunology.

Positions Held

2013-Pres Research Integrity Advisor, SickKids Hospital

2000-Pres Senior Scientist, SickKids Hospital, Toronto.
Research subjects: iPS cells for modeling human disease, gene silencing of retrovirus vectors in stem cells; regulation and replication of human β -globin transgenes; gene therapy of Sickle Cell Anemia and Rett Syndrome.

2008-10 Scientific Co-Director, Ontario Human IPS Cell Facility.

1994-2000 Scientist, SickKids Hospital, Toronto.
Research subjects: Regulation and chromatin structure of human β -globin transgenes; gene silencing of retrovirus vectors in stem cells; gene therapy of β -thalassemia and other blood disorders.

1990-94 Postdoctoral Fellow at National Institute for Medical Research, London, U.K.
Supervisor: Dr. Frank Grosveld. Research subject: Characterization of the human β -globin locus control region.

1985-90 Ph.D. student at Mount Sinai Hospital Research Institute and Department of Medical Genetics, University of Toronto, Toronto. Supervisor: Dr. Alan Bernstein.
Thesis subjects: Mechanism of retroviral integration; Gene targeting.

1983-84 B.Sc. honours and summer student at Department of Microbiology and Immunology, McGill University, Montreal. Supervisor: Dr. John Hassell. Thesis subject: Retrovirus mediated gene transfer of the Polyoma T antigens.

Appointments

2010-Pres Professor, Department of Molecular Genetics, University of Toronto.

2006-Pres Developmental and Stem Cell Biology Program, SickKids Hospital.

2001-10 Associate Professor, Department of Molecular Genetics, University of Toronto.

1998-2006 Developmental Biology Program, and Cancer and Blood Research Program, SickKids Hospital.

1996-2000 Assistant Professor, Department of Molecular & Medical Genetics, University of Toronto.

1996-2001 Blood Gene Therapy Program, SickKids Hospital.

1995-97 Department of Genetics, Program in Developmental Biology, SickKids Hospital.

Honours, Fellowships, Scholarships

- 1990-93 Medical Research Council postdoctoral fellowship (Top-ranked candidate).
1990 National Cancer Institute postdoctoral fellowship (declined).
1990 National Science and Engineering Research Council postdoctoral fellowship (declined).
1985-89 National Science and Engineering Research Council postgraduate studentship.
1985 University of Toronto Open Masters fellowship (declined).

Funding History - Current Grants

- 2018-21 Ted Rogers Centre for Heart Disease Strategic Innovation grant to Dr. J. Ellis (PI), S. Mital (CoPI), P. Billia, C. Simmons and M. Radisic (Total \$1 million - \$180,000 per year to SickKids). Precision Therapeutics for MYH7 and MYBPC3 Associated Cardiomyopathies.
2018-19 McLaughlin Centre Accelerator grant to Dr. J. Ellis (PI) (\$70,000 total). A resource of healthy iPSCs derived from the Personal Genome Project of Canada.
2017-20 SFARI Research grant (#514918) to Dr. J. Ellis (PI) and J. Martinez-Trujillo (US \$273,340 per year). Network activity and translational regulation in SHANK2 ASD neurons.
2017-20 Col Harland Sanders Rett Syndrome Research Fund at University of Toronto to Dr. J. Ellis (\$333,000 per year). Rett syndrome stem cell derived neurons: function and drug screening.
2017-19 John Evans Leadership Fund (CFI) to Dr. J. Ellis (\$188,744). Stem cell derived neuron phenotyping and drug screening platform.
2017-18 Medicine by Design New Ideas grant to Dr. J. Ellis (\$27,000). Pilot Platform – Development of cell lines for basic research.
2016-19 Medicine by Design Accelerator grant to Drs. J. Ellis (PI), B. Blencowe, Q. Morris J. Calarco and F. Miller (\$83,000 per year to J. Ellis). Post-transcriptional gene regulatory modules that control stem cell differentiation.
2016-19 CIHR Project grant (PJT-148746) to Dr. J. Ellis (PI) (\$191,125 per year). Regulation of mRNA stability and translation during human neurodevelopment.
1997-2020 Beta Sigma Phi International Endowment Fund award to Dr. J. Ellis (US\$5,000 per year). Gene therapy of β -thalassemia, sickle cell anemia and Rett syndrome.

Funding History - Previous Grants

- 2017-18 OIRM New Ideas grant to Dr. K. Singh (PI), J. Ellis and S. Scherer (\$25,000 to J. Ellis). Candidate drug testing in a new isogenic human stem cell model of Autism Spectrum Disorder (ASD).
2016-18 McLaughlin Centre Accelerator grant to Dr. J. Ellis (PI) (\$100,000 total). iPSCs cells with known Personal Genome Project sequences: a resource of healthy cell controls for disease modeling and genome editing.
2014-17 CIHR grant (MOP-133423) to Drs. J. Ellis (PI) and M. Salter (\$151,663 per year). MeCP2 function and rescue in neurons derived from Rett syndrome patient iPSC cells.
2015 Travel Grant from the Secretariat on Responsible Conduct of Research to Dr. J. Ellis to attend the 4th World Conference on Research Integrity in Rio de Janeiro (\$2,500).
2014-15 OBI grant to Drs. J. Eubanks (PI), J. Ellis and J. Lerch (\$100,000 to J. Ellis). Epigenetic Diseases Platform.
2014-15 OIRM New Ideas grant to Drs. J. Ellis (PI) and B. Blencowe (\$75,000 total). Translational control of disease-causing transcripts in human ES cells and neurons.

2014-15 CIMVHR grant to Dr. J. Ellis (PI) (\$82,388 total). Investigating cellular reprogramming as a tool for identifying neural based assays for post-traumatic stress disorder.

2014-15 Al Qamra Holding Group donation to Dr. C. Bear (PI) and co-applicants (\$57,090 to J. Ellis). Therapy development for cystic fibrosis patients in Qatar.

2013-18 CIHR grant (EPS-129129) on Canada-Japan Teams in Epigenetics of Stem Cells to Drs. A. Nagy (PI), J. Ellis and J. Tremblay (\$121,000 per year to J. Ellis). Directing cellular identity to move towards progenitor cell therapies.

2013-18 CIHR grant (MOP-126146) to Drs. J. Ellis and S. Mital as co-PIs (\$64,018 per year to J. Ellis). iPS cells to model vascular disease in patients with Williams Beuren syndrome.

2013-18 Ontario Brain Institute Grant to Drs. E. Anagnostou, P. Arnold and co-applicants (\$138,979 per year to J. Ellis). Province of Ontario Neurodevelopmental Disorders Network (POND).

2013-16 Brain Canada MRI grant to Drs. R. Melnyk (PI), S. Josselyn, J. Ellis, E. Grunebaum and B. Minassian (\$88,598 per year to J. Ellis). Carrier mediated delivery of therapeutic proteins into the brain.

2013 SickKids Stem Cell Innovation Grant to Drs. J. Ellis and S. Mital as Co-PIs (\$28,000 to J. Ellis). Vascular smooth muscle differentiation from patient iPS cells: development of a drug screening platform.

2011-14 CIHR grant (MOP-111065) to Dr. J. Ellis (\$118,412 per year). Retrovirus silencing and chromatin reorganization in stem cells.

2011-13 NIH R33 Grant (4R33MH087908-03) to Drs. J. Ellis (PI), S. Scherer, R. Weksberg, S. Yao, S. Ding (US\$152,000 per year to J. Ellis). Patient iPS cells with copy number variations to model neuropsychiatric disorders.

2011-13 Ontario Brain Institute Grant to E. Anagnostou, P. Arnold and co-applicants (\$158,883 per annum for 18 months to J. Ellis). Province of Ontario Neurodevelopmental Disorders Network (POND).

2011-13 ORF-GL2 grant (GL2-01-038) to Dr. M. Bhatia (PI) and co-applicants (\$41,250 per annum to J. Ellis). Ontario Consortium for Regeneration Inducing Therapies.

2010-13 CIHR grant (MOP-102649) to Drs. J. Ellis (PI) and M. Salter (\$144,177 per annum). Rett Syndrome disease studies using induced Pluripotent Stem Cells.

2010-11 CIHR Bridging Grant (IG1-102956) to Dr. J. Ellis (\$100,000). Retrovirus silencing and chromatin reorganization in stem cells.

2009-14 CIHR Emerging Team grant (GPG-102171) to Drs. F. Ratjen (PI), C. Bear, P. Durie, J. Ellis, and D. Rotin (\$47,000 per year to J. Ellis). CIHR Emerging Team in Cystic Fibrosis Therapy.

2009-11 NIH R21 Grant (1R21MH087908-01) to J. Ellis (PI), S. Scherer, R. Weksberg, S. Yao, S. Ding (US\$100,000 per annum to J. Ellis). Patient iPS cells with copy number variations to model neuropsychiatric disorders.

2009-10 CIHR Bridging grant (IG1-94505) from the Institute of Genetics to Dr. J. Ellis (\$100,000). Induced pluripotent stem cells to model human Rett syndrome.

2009 MITACs event funding to Drs. J. Ellis (PI) and S. Charge (\$20,000). Human Induced Pluripotent Stem Cell Training Course.

2008-13 CIHR Emerging Team in Regenerative Medicine grant (RMF-92090) to Drs. J. Ellis (PI), D. Mager, M. Lorincz, J. Dilworth and P. Dirks (\$112,995 per year to J. Ellis). Vectors, epigenetics and stem cell reprogramming.

2008-10 Ministry of Research and Innovation (MRI) seed grant to Drs. W. Stanford, J. Ellis and J. Rossant (\$1,000,000). Ontario Human Induced Pluripotent Stem Cell Facility.

2008-09 Stem Cell Network Catalyst Grant to Drs. J. Ellis (PI), P. Zandstra and J. Audet. (\$100,000). Reprogramming iPS cells to model human autism disorders.

2007-09 IRSF grant to Drs. J. Ellis (PI) and P. Dirks (US \$50,000 per annum). Neural specific MeCP2 gene therapy for Rett Syndrome.

2006-09 CIHR grant (MOP-81129) to Drs. J. Ellis (PI) and E. Jervis (\$131,063 approved per annum). Epigenetics of retrovirus silencing and variegation.

2005-08 CIHR grant (MOP-57715) to Dr. J. Ellis (\$107,178 per annum). Locus Control Region activity: interplay with intronic elements and the nuclear architecture.

2003-08 NIH Program grant (1 U54-HL070588-01) to Dr. G. Buchanan (PI located at UT Southwestern). Southwestern Comprehensive Sickle Cell Center. US \$50,000 consortium costs per annum for Dr. J. Ellis in Basic Science Project 2 directed by Dr. V. Garcia (located at UT Southwestern). Preclinical evaluation of gene therapy for Sickle Cell Disease.

2005-07 RSRF grant to Dr. J. Ellis (PI) and P. Dirks (US \$50,000 per annum) as part of a collaborative grant with Drs. D. Levin (UVic) and J. Samulski (Chapel Hill). MeCP2 isoform-specific gene therapy of Rett Syndrome Neural Stem Cells.

2005-06 Stem Cell Network of Excellence grant to Drs. D. Lillicrap (PI), J. Gallipeau, B. Knoppers, J. Ellis, B. Massie, J. Audet and M. Griffith. (\$34,200 for J. Ellis). Stem cell based gene therapy for hemophilia A.

2004-06 Anemia Institute for Research and Education grant to Dr. J. Ellis (\$30,000 per annum). Stem cell gene therapy of sickle cell anemia.

2003-06 CIHR grant (MOP-37991) to Dr. J. Ellis (\$100,592 per annum). Gene silencing of retrovirus sequences by a conserved pathway.

2003-05 Stem Cell Network of Excellence intramural project to Drs. B. Massie (PI), J. Ellis, F. Rossi and J. Dick. \$29,000 per annum for Dr. J. Ellis. Lentivector engineering for functional studies in stem cells. Extended (\$7,250) to Aug 2005.

2003-05 Stem Cell Network of Excellence intramural project to Dr. P. Zandstra (PI) and 10 co-applicants. \$29,000 per annum for Dr. J. Ellis. Development of technologies for the propagation and differentiation of human ES cells.

2002-05 CIHR grant (#MOP-57715) to Dr. J. Ellis (\$89,807 per annum). Locus Control Region activity: dependence on β -globin gene proximal elements.

2002-03 NIH RO1 grant (#HL70702-01) to Dr. V. Garcia (PI located at UT Southwestern). US \$50,000 consortium costs per annum for Dr. J. Ellis. Preclinical evaluation of gene therapy for Sickle Cell Disease.

2002-03 Stem Cell Network of Excellence intramural project to Drs. B. Massie (PI), J. Ellis, C. Power, and I. Lorimer (\$20,000 per annum for J. Ellis). Lentivectors for functional studies: a cross-theme project.

2001-03 Juvenile Diabetes Foundation International resource development grant (#1-2001-432) to Drs. H.M. Dosch (PI), J. Ellis, and A. Nagy (US \$126,000 per annum). Development of a NOD mouse embryonic stem cell line.

2001-03 National Centres of Excellence (NCE) funding for The Stem Cell Genomics and Therapeutics Network (StemNET) (\$21,124,000 total). Ron Worton (PI). Funding for Dr. J. Ellis as co-applicant (\$40,000).

2000-2003 CIHR grant (#MOP 37991) to Dr. J. Ellis (\$80,432 per annum). Gene silencing of retrovirus sequences by a conserved pathway.

1999-2002 CIHR grant (#MT 15627) to Drs. J. Ellis (PI) and J. Squire (\$95,040 per annum). The β -globin promoter and replication origin: influence of transcription on replication. Extended for 6 months (\$11,880) until funded above.

1998-2001 Juvenile Diabetes Foundation International resource development grant (#41998172) to Drs. H.M. Dosch (PI), J. Ellis, and A. Nagy (US \$150,000 per annum). Development of a NOD mouse embryonic stem cell line.

1997-99 Bayer/Canadian Red Cross Society Research and Development Fund grant (#9704) to Dr. J. Ellis (\$75,000 per annum). Blood gene therapy vectors that escape transcriptional silencing.

1996-2013 Invitrogen (previously Gibco BRL) Molecular Biology Supply Center Contract (~\$25,000 per annum).

- 1996-99 TRANSGENE S.A. contract to Dr. R. Worton and Dr. J. Ellis (\$206,700 approved per annum - **cancelled** due to Worton Lab move). Dystrophin Gene Expression.
- 1995-99 MRC grant (#MT 13109) to Dr. J. Ellis (\$71,044 per annum). Chromatin opening activity and in vivo DNA loop structures in the human β -globin locus. Extended for 6 months (\$8,881) until funded above.

Funding History - Fellowships / Studentships / Awards to Lab Members

- 2018-20 SickKids Restrcomp Award to Leah de Jong (\$26,000 per annum).
- 2018 MbD Travel Award for Cambridge International Stem Cell Symposium to Dr. Matthew Hildebrandt (\$2,500).
- 2018 SCN bursary for the RNASeq Analysis Workshop to Loryn Byres.
- 2017-18 SickKids Restrcomp Award to Dr. Sazia Sharmin (\$33,750 per annum).
- 2017 SCN bursary for the RNASeq Analysis Workshop to Fraser McCready.
- 2016 SCN bursary for the RNASeq Analysis Workshop to Dr. Deivid Rodrigues.
- 2015 EMBO Conference on Neural Development Travel Award to Kirill Zaslavsky (\$1300).
- 2015 OIRM Award and Best Plenary Talk Oral Presentation Award (\$1000) at the Till & McCulloch meeting to Kirill Zaslavsky.
- 2015 OIRM Award and Best Under the Microscope Oral Presentation Runner-up Award at the Till & McCulloch meeting to Dr. Deivid Rodrigues.
- 2015 OIRM Award and Junior Chair at the Till & McCulloch meeting to Dr. Joel Ross.
- 2015 OIRM Award and poster presentation at the Till & McCulloch meeting to Rebecca Mok and Caitlin Loo.
- 2015 SickKids SSure Program Symposium Oral presentation to Melody Zhao.
- 2015 CAN travel award to Kirill Zaslavsky (\$500).
- 2015 SCN bursary for the SCN-OMICs Workshop to Kirill Zaslavsky (\$350).
- 2014 Till and McCulloch meeting Poster Award to Dr. Joel Ross (\$500).
- 2014 Stem Cell Network Trainee Travel Awards to Dr. Joel Ross, Dr. Deivid de Carvalho Rodrigues, Kirill Zaslavsky and Rebecca Mok.
- 2014-16 IRSF Mentored Fellowship Award to Dr. Deivid de Carvalho Rodrigues (\$50,000 per annum).
- 2014 SGS Conference grant to Rebecca Mok (\$630).
- 2013-16 CIHR Vanier Canada Graduate Studentship to Kirill Vaslavsky (\$50,000 per annum).
- 2013 DSCB Travel Award to Sylvie Gervier (\$500).
- 2013 SickKids RTC Trainee Travel Award to Aaron Cheung (\$1,000).
- 2013 Stem Cell Network Trainee Travel Awards to Uglesa Djuric and Dr. Joel Ross.
- 2013 UofT Doctoral Completion Award to Aaron Cheung (\$946).
- 2012-13 National Research Foundation of Korea Fellowship award to Dr. Dae-Sung Kim (\$28,000).
- 2012 CIHR Lap-Chee Tsui Publication Award Finalist to Dr. Amy Wong (\$500).
- 2012 DSCB Exceptional Graduate Student Award to Aaron Cheung (\$500).
- 2012 SickKids Summer Student Poster Award to Jason Hendry (\$100).
- 2012-14 SickKids Restrcomp Award to Dr. Deivid de Carvalho Rodrigues (\$33,750 per annum).
- 2012 ICRH Young Investigator Forum Travel Award to Dr. Amy Wong.
- 2012 UofT Doctoral Completion Award to Ugljesa Djuric (\$5,104).
- 2012-13 OMHF Research Studentship to Aaron Cheung (\$16,000).
- 2012 DSCB Travel Awards to Ugljesa Djuric, Aaron Cheung, Mandy Lo (\$500).
- 2011 SickKids Exceptional Trainee Award to Dr. Amy Wong (\$500).
- 2011 Best poster prize to Dr. Sylvie Gervier (iPad2 = \$500). OCRiT meeting.
- 2011 David Stephen CANT Scholarship to Aaron Cheung (\$3646).
- 2011 Margaret & Howard GAMBLE Research Grant to Aaron Cheung (\$15,000).

2011 Hilda and William Courtney CLAYTON Paediatric Research Fund Award to Aaron Cheung (\$4000).

2011 Al and Hannah PERLY Graduate Student Scholarship to Aaron Cheung (\$2400).

2011 SickKids Restrcomp Award to Aaron Cheung (\$20,000 per annum). Declined.

2011 SCN Travel Bursary for Hydra Summer School in Stem Cells and Regenerative Medicine to Ugljesa Djuric (\$2500).

2011-14 OSCI Post Doctoral Fellowship to Dr. Joel Ross (\$50,000 per annum).

2011 SCN-ISSCR Travel Awards to U. Djuric, M. Lo, N. Farra, A. Cheung, S. Gervier, A. Wong, J. Ross and S. Khattak (\$425 each).

2011 SCN-CiRA Travel Bursary to Ugljesa Djuric (\$1,200). Declined due to Tsunami.

2010 SickKids RTC Trainee Travel Award to Ugljesa Djuric (\$1,000).

2010 Best Poster Prize to Ugljesa Djuric (\$500). Stem Cell Network AGM.

2010 SCN Travel Bursary for Hydra Summer School in Stem Cells and Regenerative Medicine to Aaron Cheung (\$2500).

2010 SCN Bursary for Human iPS Cell Training Course to Dr. Joel Ross (\$800).

2010 ASGCT Travel Award to Dr. Sylvie Gervier (\$500).

2010 Ontario Post Doctoral Fellowship to Dr. Joel Ross, MRI (\$25,000 per annum)

2009 SickKids Exceptional Trainee Award to Dr. Akitsu Hotta (\$500).

2009 1st International Exchange Program for Developmental/Stem Cell Biology & Regenerative Medicine, U of H.K. and U of T (\$1200 travel award) to Aaron Cheung.

2009-11 Ontario Post Doctoral Fellowship to Dr. Amy Wong, MRI (\$25,000 per annum)

2009 ICSCN Travel Award to Dr. Akitsu Hotta. Barcelona, Spain.

2009-12 CIHR Frederick Banting and Charles Best Canada Graduate Scholarships - Doctoral Award to Natalie Farra (\$30,000 plus \$5000 research allowance).

2009-12 CIHR Frederick Banting and Charles Best Canada Graduate Scholarships - Doctoral Award to Mandy Lo (\$30,000 plus \$5000 research allowance).

2009-12 NSERC PhD Studentship award to Aaron Cheung (\$21,300 per annum).

2008 Best Poster Prize to Dr. Akitsu Hotta (\$500). Stem Cell Network AGM.

2008-10 SickKids Senior Fellowship Restrcomp Award to Dr. Akitsu Hotta (\$33,750 per annum).

2008-9 Masters Autism Scholars Award to Natalie Farra (\$17,000 per annum).

2008 Hayden Hantho OSOTF Award to Natalie Farra (\$4,808 per annum).

2008-12 Ontario Graduate Scholarship Award to Ugljesa Djuric (\$15,000 per annum).

2008-11 SickKids Restrcomp Award to Ugljesa Djuric (\$20,000 per annum).

2008 SickKids RTC Trainee Travel Award to Dr. Akitsu Hotta (\$1,000).

2007 Best Poster Prize to Maisam Makarem (\$100). SickKids Summer Student Symp.

2007-9 SickKids Restrcomp Award to Mandy Lo (\$20,000 per annum).

2007-08 NSERC Masters Studentship award to Aaron Cheung (\$17,300 per annum).

2007-12 Dr. Sylvie Gervier. Salary paid by INRA (France).

2007-08 Ontario Graduate Scholarship Award to Arash Khairandish (\$15,000 per annum). Declined.

2006-07 CIHR Canada Graduate Scholarship - Masters Award to Arash Khairandish (\$17,500 per annum).

2006-07 SickKids Restrcomp Award to Arash Khairandish (\$19,000 per annum) used for stipend top-up.

2005 RMDC Studentship to Anja Krauss (\$18,000).

2004 Best Poster Prize to Jason Ho (\$500). Stem Cell Network AGM.

2004 University of Toronto Open Fellowship to Angela Moffett (\$6,000).

2003-04 Stem Cell Network Training Award to Dr. Sumin Han (\$20,000 per annum).

2002-04 NSERC studentship to Jason Ho (\$17,300 per annum).

2003 Best Poster Prize – Runner-Up to Shuyuan Yao (\$250). Stem Cell Network AGM.

2002-03 Stem Cell Network Training Award to Dr. Sharon Soodeen-Karamath (\$19,000 per annum).

2002 Stem Cell Network Training Award to Shuyuan Yao (\$1,000 per annum).

2001-03 SickKids Restrcomp Award to Shuyuan Yao (\$19,000 per annum).

2001 University of Toronto Open Fellowship to Shuyuan Yao (\$6,000 per annum). Declined.

2000-02 CIHR Doctoral Research Award to Dylan Pannell (\$19,030 per annum).

2000-02 SickKids Restrcomp Fellowship to Dr. Sharon Soodeen-Karamath (\$26,000 per annum).

2000 CIHR Fellowship to Dr. Joydeep Basu (\$33,000). Declined.

2000-02 SickKids Restrcomp Award to Rikki Bharadwaj (\$19,000 per annum).

2000 Ontario Graduate Scholarship to Dylan Pannell (\$11,859). Declined.

1999 SickKids Restrcomp Award to Dylan Pannell (\$5,141 per annum).

1999 Ontario Graduate Scholarship to Dylan Pannell (\$11,859 per annum).

1999 University of Toronto Open Masters Fellowship to Dylan Pannell (\$12,473 per annum). Declined.

1999 SickKids Restrcomp Fellowship to Dr. Joydeep Basu (\$26,000 per annum).

1998 SickKids "Citizen of the Year Award" to Peter Pasceri.

1997-99 Ontario Thalassemia Foundation Fellowship to Dr. Cameron Osborne (\$30,000 per annum).

1997-99 FCAR Studentship to Joel Rubin (\$11,000 per annum).

Funding History – Infrastructure Applications for SickKids Hospital

2010-14 CFI/ORF Award "Ontario Initiative in Personalized Stem Cell Medicine". Dr. J. Rossant (PI) and many co-applicants (\$1,804,468 to Ontario Human IPS Cell Facility based at SickKids, plus IOF of \$215,634).

2007-12 CIHR Research Resource Grant "Shared Flow Cytometry Facility". Dr. C. Guidos (PI) and 9 co-applicants. (\$54,612 per annum).

2001-06 CIHR Maintenance Grant "Shared Flow Cytometry Facility". Dr. C. Guidos (PI) and 9 co-applicants. (\$51,000 per annum).

2001 CIHR Multi-user Equipment Grant "Ultracentrifuge and rotors". Dr. C. Pearson (PI) and 10 co-applicants. (\$100,000).

1999 Invited CFI "University of Toronto Initiative in Mammalian Models of Human Disease" infrastructure application. J. Rossant (Project Leader). SickKids component by Drs R. McInnes, J. Ellis and F. Keeley (\$5,040,000).

Invited Talks

2018 ORSA Symposium, Toronto.
Takeda-CIRA, Shonan Research Center, Japan.
CIHR-JST Stem Cell Team Final Meeting. Canadian Embassy, Tokyo, Japan.
Donders Institute for Brain, Cognition, and Behaviour. Nijmegen NL.

2017 XLID International Fragile X and Related Neurodevelopmental Disorders Workshop. Saint Alexis-des-Monts, PQ.
Introduction to Research Integrity for Basic Researchers. SickKids.
POND Science Day. SickKids.
Stem Cell and Brain Research Institute. Lyon, France.

2016 Sanford Consortium for Regenerative Medicine. San Diego, CA.
BC Children's Hospital Research Institute. Vancouver, BC.
Meet the Investigator Lunch presenter. Till & McCulloch Mtg. Whistler, BC.
Introduction to Research Integrity for Basic Researchers. SickKids.
Molecular Psychiatry Meeting. Maui HI.
European Institute of Oncology. Milan, Italy.
MoGen Grad Recruitment day. Toronto.

5th Annual Canadian Human and Statistical Genetics Meeting. Halifax, NS.
 Robarts Research Institute. London ON.

2015 Stem Cell Scientists talking to Stem Cell Scientists Symposium. SickKids.
 Introduction to Research Integrity for Basic Researchers. SickKids.
 Functional Genomics of the Human Brain Symposium. Uppsala, Sweden.
 Canada-Japan Joint Research Program, Mid-term meeting. Toronto.
 UFRJ. Rio de Janeiro, Brazil.

2014 Florida State University. Tallahassee FL.
 Introduction to Research Integrity for Basic Researchers. SickKids.
 CCRM iPS Cell Workshop. Toronto.
 Genetics Grand Rounds. SickKids.
 Stem Cell Talks 2014. Toronto.
 Korean Society for Gene and Cell Therapy. Osong, South Korea.
 Canadian Rett Syndrome Symposium. Hamilton ON.
 CAMH Neuroscience Research Day. Toronto ON.
 CIHR-JST Stem Cell Team Kickoff Meeting. Canadian Embassy, Tokyo, Japan.
 Canadian mini-symposium. CiRA, Kyoto, Japan.

2013 Molecular Psychiatry meeting. San Francisco CA.
 CREMS seminar. Toronto ON.
 SickKids CF Research Rounds. Toronto ON.
 OSCI seminar. Toronto ON.
 ASGCT Annual Meeting Presidential Symposium. Salt Lake City UT (presented
 by S. Gervier).
 University of Connecticut Health Center. Farmington CT.

2012 Advances in the Biomedical Research of ASD. Barcelona Spain.
 POND Science Day. Toronto ON.
 DSCB Retreat. Toronto ON.
 OCRiT Annual Symposium. Toronto ON.
 McMaster Stem Cell and Cancer Research Institute. Hamilton ON.
 Personalized Medicine in the Genomics Era. Toronto ON.
 Allen Brain Institute. Seattle WA.
 Molecular Genetics Retreat. Orillia ON.
 MGYSU Seminar. Toronto.
 ISDN meeting. Mumbai, India.

2011 Neural Stem Cells in Normal and Abnormal Brain Development. Toronto ON.
 SickKids Transplant and Regenerative Medicine Centre Education Rounds.
 Personalized Medicine in the Genomics Era. Toronto ON.
 Canadian Health Research Students Forum. Winnipeg, Man.
 ASGCT Annual Meeting. Seattle WA.
 Canadian Human Genetics Conference. Banff, AB.
 IRSF Rett Syndrome Symposium. Virginia.
 Epigenetics Conference. London ON.

2010 Keynote lecture, Developmental Biology Research Day. London ON.
 Sprott Stem Cell Centre, OHRI, Ottawa.
 Stem Cell Network ASM and Meet the Investigator Breakfast, Calgary, AB.
 ASHG Annual Meeting, Washington, DC.
 CIRM iPS Cell Banking Workshop, San Francisco, CA.
 Italian Society of Human Genetics National Congress. Florence, Italy.
 NIMH Grantees Meeting on Using Stem Cells to Model Psychiatric Disorders.
 Bethesda, MD.
 Brazilian Society of Cell Biology. Sao Paolo, Brazil.
 3rd Congress Asia-Pacific Pediatric Cardiac Society. Tokyo, Japan.
 CiRA. Kyoto, Japan.

Panel Discussion on "Cellular Reprogramming: What the future holds". ISSCR, San Francisco, CA.
 Meet the Investigator Lunch presentation, ASGCT 13th Annual meeting. Washington DC.
 Panel Discussion on "Ethical Issues with ESC and iPSC" ASGCT 13th Annual Meeting. Washington DC.
 5th Canadian Developmental Biology Conference. Mt Tremblant QB.
 Cell Culture Engineering. Banff, AB.
 iPSC Cells and the NIH Intramural Research Program Workshop. Bethesda, MD.
 University Wide Surgical Rounds. Sunnybrook Hospital.
 SickKids Research Institute Retreat.
 MaRS Future of Medicine Conference 2009. MaRS.
 Epigenetics and Stem Cells meeting. Shanghai, China.
 AHA Scientific Sessions 2009. Orlando FL.
 Neural Stem Cells in Disease and Repair Symposium. SickKids.
 Rett Syndrome Symposium. Itasca, IL.
 ASGT 12th Annual Meeting. San Diego, CA.
 Ste Justine Hospital Scientific Retreat. Montreal PQ.
 Toronto IPS Meeting. UHN/MaRS
 TSCI Stem Cell Rounds. UHN/MaRS
 Toronto IPS Meeting. UHN/MaRS
 New Bolton Centre. Kennett Square PA.
 BioJapan 2008. Ontario-Japan Stem Cell Initiatives. Yokohama, Japan.
 Pathobiology. Ontario Veterinary College. Guelph ON.
 Rett Syndrome Symposium. Itasca IL.
 ASGT 11th Annual Meeting. Boston MA.
 4th Canadian Gene Therapy and Vaccines Symposium, Montreal PQ.
 SickKids CF Research Seminar Series.
 ObGyn. McGill University. Montreal.
 ASGT 10th Annual Meeting. Seattle WA.
 Sprott Stem Cell Centre, OHRI, Ottawa.
 EMBO Conference on Chromatin and Epigenetics. Heidelberg, Germany.
 Hannover Medical School, Hannover, Germany.
 Erasmus Medical Center. Rotterdam, Netherlands.
 SickKids IIIR Seminar Series.
 University of Texas Southwestern Medical Center. Dallas TX.
 Beta Sigma Phi Executive Council Annual Meeting, Toronto.
 The Nucleus Workshop, UHN/MaRS.
 Toronto Nucleus Meeting, SickKids.
 TIGET- San Raffaele Hospital. Milan, Italy.
 University of Victoria, BC.
 University of British Columbia. BC.
 MGYSU Seminar. Toronto.
 Lawrence Berkeley Labs. Berkeley CA.
 University of Texas Southwestern Medical Center. Dallas TX.
 Stem Cell Network AGM. Calgary.
 Chromatin Structure, Epigenetics and Cancer meeting. Morelos, Mexico.
 SCN Hemophilia workshop. Kingston ON.
 ASGT 8th annual meeting. St Louis MO.
 University of Texas Southwestern Medical Center. Dallas TX.
 Babraham Institute, Cambridge UK.
 Lead Scientist for Canada. Workshop on International Networking for Young Scientists in Stem Cell Research. Moller Center, Cambridge UK.
 Workshop on Human Embryonic Stem Cells. Robarts Research Inst. London.

University of Texas Southwestern Medical Center. Dallas TX.
 UNAM. Instituto de Fisologica Celular. Mexico City.
 National CTV interview by Avis Favaro with our collaborator E. Jervis showing videotape of variegated retrovirus in our ES cell line (aired Nov 7, 2004).

2003 Stem Cell Network AGM. Vancouver.
 Cancelled due to SARS, Genteric Alameda CA.
 UK Stem Cell Mission. Toronto.
 Institute of Reproduction and Development. Monash University, Australia.

2002 McLaughlin Center Stem Cell Rounds. OCI, Toronto.
 Thirteenth Conference on Hemoglobin Switching. Oxford UK.
 SickKids retreat.
 SickKids IIR Program Seminar Series.
 NIH Globin Vector Club III. Boston, MA.
 Hopital Maisonneuve-Rosemount, Montreal.
 Keystone Meeting on "Epigenetics of Disease". Taos, NM.

2001 University of Texas – Southwestern, Dallas TX.
 "Future of Disease Management Symposium". Erindale Campus, Toronto.
 NRC Biotechnology Research Institute. Montreal.
 Ottawa Hospital Research Institute. Ottawa.

2000 University of Calgary. Calgary.
 NIH Globin Vector Club II. San Francisco, CA.
 Cell Genesys. Foster City, CA.
 Twelfth Conference on Hemoglobin Switching. Orcas Island, WA.
 Ottawa Hospital Research Institute. Ottawa.
 Terry Fox Laboratory. Vancouver.
 SickKids DPLM Rounds.

1999 NIH Globin Vector Club I. New Orleans, LA.
 Great Lakes Developmental Biology Meeting. Toronto.

1998 Department of Molecular & Medical Genetics Retreat. North York.
 Broken Arrow Conference. Mississauga.

1997 Eleventh Conference on Hemoglobin Switching. Orcas Island, WA.
 Sunnybrook Health Sciences Centre. Toronto.

1996 Second Canadian Symposium on Gene Therapy. Vancouver.
 Toronto Gene Therapy Network.
 University of Toronto Hem/Onc Grand Rounds.
 Bio 96. Philadelphia.
 SickKids Terry Fox Seminar.
 Gene Therapy Meeting. Cold Spring Harbor, NY.
 Department of Molecular & Medical Genetics Retreat. Barrie.
 Sloan Kettering Memorial Cancer Centre. New York.

1995 Institute Cancer de Montreal. Montreal.
 Department of Medical Genetics. University of Toronto.

1994 Ninth Conference on Hemoglobin Switching. Orcas Island, WA.
 SickKids Hospital Retreat. Toronto.

1993 Amgen Inc. Thousand Oaks, CA.
 Robarts Research Institute. London, Ont.
 Terry Fox Laboratory. Vancouver, BC.

1990 Fred Hutchinson Cancer Centre. Seattle, WA.

Outreach:

2017 Beta Sigma Phi Conference. Mississauga.
 2015 POND Family Day. Toronto ON.
 Beta Sigma Phi Conference. Mississauga.
 2014 Royal Canadian Institute Gala, Scientist Table Host. MaRS.

Stem Cell Talks Debate on “In vitro vs in vivo disease models for drug screening to treat neurodegenerative disease”. MaRS.
 2010 Heart Centre Biobank Education Day. SickKids.
 2009 Autism Parent Conference oral presentation. Hamilton ON.
 2008 Connecting for Kids Blog.

Grant Panels

2018 CIHR Genetics Panel member.
 2017 CIHR Genetics Panel member.
 Telethon Scientific Committee.
 2016 OIRM-MbD Fellowship Panel.
 Telethon Scientific Committee.
 2015 CIHR Genetics Panel member.
 NIH Molecular and Cellular Substrates of Complex Brain Disorders Special Emphasis Panel member.
 2014 CIRM Grants Working Group.
 NIH Panel on Molecular and Cellular Substrates of Complex Brain Disorders.
 CIHR Foundation Scheme Stage 1.
 2013 CIRM Grants Working Group.
 Autism Speaks Dennis Weatherstone Fellowship Panel.
 2012 CIRM Grants Working Group.
 NYSTEM Panel on Stem Cell Reprogramming.
 CIHR Developmental Biology Panel Invitee member.
 2011 CIRM Grants Working Group.
 Autism Speaks Basic and Clinical Grants Panel.
 CIHR Developmental Biology Panel Invitee member.
 2008 OIT Focus Group for a Brain Initiative.
 Genome Canada Position Paper Workshops on Child Health Genomics.
 MRI Ontario Stem Cell Strategy Workshop.
 NCIC Panel D (Hormones, Receptors and Cell Cycle) Invitee member.
 2007 CIHR Genetics Panel Invitee member.
 2005 NIH Panel for "Cell Based Therapy" RFA.
 Regenerative Medicine Development Centre (UWO) Project Committee.
 2003-06 CIHR Developmental Biology Panel member.
 2002-04 Stem Cell Network Training Committee (Chair), including its Trainee Awards Competition held quarterly.
 2001-05 Stem Cell Network Training Committee, including its Trainee Awards Competition held quarterly.

Journal Editorial Boards and Agency Advisory Boards

2015-21 Panel on Responsible Conduct of Research (PRCR) member.
 2013-15 Stem Cell Network Research Management Committee (RMC).
 2013-15 *Molecular Therapy* Editorial Board.
 2013 International Advisor, University of Connecticut Stem Cell Core Facility.
 2011-15 CCRM Founders Advisory Group - Lead Scientist (Reprogramming).
 2011-13 Stem Cell Resources Scientific Panel Member for the NIMH.
 2009-16 *Stem Cells* Editorial Board.
 2009-15 *F1000* Member Contributor.
 2009-10 *Stem Cell Reviews and Reports* Editorial Board.

Grant, Journal, and Promotion Reviews

2018 *Cell Reports* Journal Peer Reviewer on 1 article.
Scientific Reports Journal Peer Reviewer on 1 article.
PLoS One Journal Peer Reviewer on 1 article.

2017 *Stem Cells and Development* Journal Peer Reviewer on 1 article.
Progress in Neuropsychopharmacology & Biological Psychiatry Journal Peer Reviewer on 1 article.
Cell Reports Journal Peer Reviewer on 1 article.
Faculty Promotion Reviewer on 1 dossier.

2016 *Molecular Psychiatry* Journal Peer Reviewer on 1 article.

2015 *Cell Stem Cell* Journal Peer Reviewer on 1 article.
Cell Journal Peer Reviewer on 1 article.
AJHG Journal Peer Reviewer on 1 article.
Molecular Autism Journal Peer Reviewer on 1 article.
J. Cellular Biochemistry Journal Peer Reviewer on 1 article.
Biomaterials Journal Peer Reviewer on 1 article.
BMC Neuroscience Journal Peer Reviewer on 1 article.
Disease Models and Mechanisms Journal Peer Reviewer on 1 article.
Faculty Promotion Reviewer on 1 dossier.

2014 *Cell Stem Cell* Journal Peer Reviewer on 1 article.
Nature Methods Journal Peer Reviewer on 1 article.
Molecular Psychiatry Journal Peer Reviewer on 1 article.
Israel Science Foundation Reviewer on 1 grant.
Faculty Promotion Reviewer on 1 dossier.
SickKids CF Centre reviewer on 2 catalyst grants.
SickKids Exceptional Trainee Reviewer.

2013 *Nature Biotechnology* Journal Peer Reviewer on 1 article.
Nature Methods Journal Peer Reviewer on 1 article.
Trends in Molecular Medicine Journal Peer Reviewer on 1 article.
Stem Cell Reports Journal Peer Reviewer on 1 article.
EMBO Journal Peer Reviewer on 1 article.
Gene Therapy Journal Peer Reviewer on 1 article.
Molecular Therapy Journal Peer Reviewer on 1 article.
PLOS ONE Journal Peer Reviewer on 2 articles.
Health Research Board of Ireland Reviewer on 1 grant.
Faculty Promotion External Reviewer on 1 dossier.
UofT National Scholarship Program reviewer of 1 applicant.

2012 *Cell Stem Cell* Journal Peer Reviewer on 5 articles.
Cell Reports Journal Peer Reviewer on 1 article.
Stem Cells Journal Peer Reviewer on 1 article.
EMBO Reports Journal Peer Reviewer on 1 article.
Trends in Molecular Medicine Journal Peer Reviewer on 1 article.
Journal of Molecular Cell Biology Journal Peer Reviewer on 1 article.
NIH PMDA Study Section Reviewer on 1 grant by teleconference.
BBSRC (UK) External Reviewer on 1 grant.
Faculty Promotion External Reviewer on 3 dossiers.

2011 *Cell Stem Cell* Journal Peer Reviewer on 4 articles.
Nature Cell Biology Peer Reviewer on 1 article.
Nature Methods Journal Peer Reviewer on 1 article.
Stem Cells Journal Peer Reviewer on 4 articles.
PLOS Genetics Journal Peer Reviewer on 1 article.
Nucleic Acids Research Journal Peer Reviewer on 1 article.
Molecular Therapy Journal Peer Reviewer on 2 articles.
PLOS ONE Journal Peer Reviewer on 1 article.
Disease Models and Mechanisms Journal Peer Reviewer on 1 article.
CIHR NSB Panel Reviewer on 1 grant by teleconference.
Telethon External Reviewer on 1 grant.
Faculty Promotion External Reviewer on 2 dossiers.

2010 *Nature* Journal Peer Reviewer on 1 article.
Nature Biotechnology Journal Peer Reviewer on 1 article.
Nature Methods Journal Peer Reviewer on 1 article.
Nature Reviews Genetics Journal Peer Reviewer on 1 article.
Cell Stem Cell Journal Peer Reviewer on 5 articles.
The Lancet Neurology Journal Peer Reviewer on 1 article.
Blood Journal Peer Reviewer on 1 article.
Proceedings of the National Academy of Science Journal Peer Reviewer on 1 article.
Stem Cells Journal Peer Reviewer on 2 articles.
Molecular Therapy Journal Peer Reviewer on 1 article.
Clinical Pharmacology and Therapeutics Journal Peer Reviewer on 1 article.
Brain Research Journal Peer Reviewer on 1 article.
PLOS ONE Journal Peer Reviewer on 1 article.
Expert Reviews in Molecular Medicine Journal Peer Reviewer on 1 article.
Chromosoma Journal Peer Reviewer on 1 article.
 CIRM External Reviewer on 6 grants in 2 RFAs.
 NSERC External Reviewer on 1 grant.
 Israel Science Foundation External Reviewer on 1 grant.

2009 *Cell Stem Cell* Journal Peer Reviewer on 1 article.
Nature Methods Journal Peer Reviewer on 1 article.
Nature Protocols Journal Peer Reviewer on 1 article.
 Medical Research Council (UK) on 1 grant.
 CGD Research Trust (UK) on 1 grant.
Science Journal Peer Reviewer on 1 article.
Proceedings of the National Academy of Science Journal Peer Reviewer on 2 articles.
Stem Cells Journal Peer Reviewer on 1 article.
Molecular Therapy Journal Peer Reviewer on 1 article.
Cell Death and Differentiation Journal Peer Reviewer on 1 article.
Stem Cell Reviews and Reports Journal Peer Reviewer on 1 article.

2008 *Nature Medicine* Journal Peer Reviewer on 1 article.
Proceedings of the National Academy of Science Journal Peer Reviewer on 1 article.
Stem Cells Journal Peer Reviewer on 3 articles.
Experimental Cell Research Journal Peer Reviewer on 1 article.
 Telethon External Reviewer on 1 grant.

2007 Netherlands Organisation for Health Research and Development (ZonMw) TOP Grant External Reviewer on 1 grant.
 Wellcome Trust Research Training Fellowship External Reviewer on 1 grant.
 Faculty Promotion External Reviewer on 2 dossiers.
Proceedings of the National Academy of Science Journal Peer Reviewer on 2 articles.
Blood Journal Peer Reviewer on 1 article.
Molecular Therapy Journal Peer Reviewer on 2 articles.
Chromosoma Journal Peer Reviewer on 1 article.
BBA- Gene Structure and Expression. Journal Peer Reviewer on 1 article.
Genome Biology. Journal Peer Reviewer on 1 article.
PLOS ONE Journal Peer Reviewer on 1 article.
Cytogenetic and Genome Research Journal Peer Reviewer on 1 article.

2006 CCFF External Reviewer on 1 grant.
 Telethon External Reviewer on 1 grant.
Molecular Therapy Journal Peer Reviewer on 5 articles.
Gene Therapy Journal Peer Reviewer on 2 articles.

Experimental Hematology Journal Peer Reviewer on 1 article.
Genome Biology (BMC) Journal Peer Reviewer on 1 article.
 Michael Smith Foundation for Health Research Reviewer on 1 grant.
 Faculty Promotion External Reviewer on 2 dossiers.
Swiss Medical Weekly Journal Peer Reviewer on 1 article.
Biochemical Journal Peer Reviewer on 1 article.
Comparative Biochemistry and Physiology Peer Reviewer on 1 article.
 2005 *Oncogene* Journal Peer Reviewer on 1 article.
FEBS Letters Journal Peer Reviewer on 1 article.
Experimental Hematology Journal Peer Reviewer on 1 article.
Stem Cells Journal Peer Reviewer on 1 article.
Nucleic Acids Research Journal Peer Reviewer on 3 articles.
Molecular Therapy Journal Peer Reviewer on 1 article.
Molecular and Cellular Biochemistry Journal Peer Reviewer on 1 article.
 Faculty Promotion External Reviewer on 1 dossier.
 CFI External Reviewer on 1 grant.
 2004 *Stem Cells* Journal Peer Reviewer on 1 article.
Nucleic Acids Research Journal Peer Reviewer on 1 article.
Proceedings of the National Academy of Science Journal Peer Reviewer on 1 article.
Molecular Therapy Journal Peer Reviewer on 4 articles.
 NSERC External Reviewer on 1 grant.
 Faculty Promotion External Reviewer on 1 dossier.
 2003 *Nucleic Acids Research* Journal Peer Reviewer on 1 article.
Molecular Therapy Journal Peer Reviewer on 2 articles.
Pediatric Research Journal Peer Reviewer on 1 article.
Journal of Virology Journal Peer Reviewer on 1 article.
Proceedings of the National Academy of Science Journal Peer Reviewer on 1 article.
 Anemia Institute External Reviewer on 1 grant.
 CIHR External Reviewer on 1 grant.
 Faculty Promotion External Reviewer on 4 dossiers.
 2002 Chromatin Chapter of *Molecular Biology* 3rd Ed by Weaver, McGraw-Hill.
Blood Journal Peer Reviewer on 2 articles.
FEBS Letters Journal Peer Reviewer on 1 article.
Gene Therapy Journal Peer Reviewer on 1 article.
 Faculty Promotion External Reviewer on 4 dossiers.
 2001 Welcome Trust International Research Fellowship Reviewer on 1 application.
 Italian Ministry of Universities and Research External Reviewer on 1 grant.
 Bayer Blood Partnership Fund External Reviewer on 1 grant.
 NSERC External Reviewer on 1 grant.
 CIHR External Reviewer on 1 grant.
 CIHR Internal Reviewer by teleconference on 1 grant.
 2000 NSERC External Reviewer on 1 grant.
 MRC External Reviewer on 7 grants.
Proceedings of the National Academy of Science Journal Peer Reviewer on 1 article.
Blood Journal Peer Reviewer on 1 article.
 1999 *Proceedings of the National Academy of Science* Journal Peer Reviewer on 2 articles.
Molecular and Cellular Biology Journal Peer Reviewer on 1 article.
 SickKids Foundation External Reviewer on 2 grants.
 MRC External Reviewer on 7 grants.
 Bayer Blood Partnership Fund External Reviewer on 1 grant.

- 1998 *Genomics* Journal Peer Reviewer on 1 article.
Genome Journal Peer Reviewer on 1 article.
MRC / PMAC External Reviewer on 1 grant.
Hong Kong RGC External Reviewer on 1 grant.
MRC External Reviewer on 3 grants.
SickKids Foundation External Reviewer on 1 grant.
- 1997 Hong Kong RGC External Reviewer on 2 grants.
Development Journal Peer Reviewer on 2 articles.
MRC External Reviewer on 2 grants.
- 1996 SickKids Foundation External Grants Panel Member.
Hong Kong RGC External Reviewer on 3 grants.
Bayer/Red Cross R & D Fund External Reviewer on 1 grant.
- 1995 MRC External Reviewer on 3 grants.
SickKids Foundation External Reviewer on 1 grant.

Conference Organization

- 2018 SickKids Symposium on Research Integrity, Organizer.
2015 SickKids Symposium on Research Integrity, Organizer.
2013 TAKAO International Symposium, Session Chair and Abstract Moderator.
2012-15 Stem Cell Committee. ASGCT.
2011 Canadian Human Genetics Conference. Session Organizer and Chair.
2011 Personalized Medicine in the Genomics Era: An International Symposium on
Childhood Heart Disease. Program Co-Chair.
2010 CIRM iPS Cell Banking Workshop, Session Chair.
2009-12 Embryonic/Somatic Stem Cell and Tissue Engineering Committee, ASGCT.
2009 Kyoto/Gladstone/Toronto Joint IPS Cell Meeting Co-organizer.
2009-11 CIHR Emerging Team Meeting Organizer.
2009 AHA Scientific Session Moderator.
2007 ASGT 10th Annual Meeting Abstract Review Committee and Session Chair.

Society Membership

- 2006-16 International Society for Stem Cell Research.
1997-2016 American Society of Gene and Cell Therapy.
2013-15 Canadian Association for Neuroscience.
2001-07 American Society of Hematology.
2000-03 American Society of Microbiology.
1999-2001 European Society of Gene Therapy.

Core Facility Director

- 2008-10 Scientific Co-Director of the Ontario Induced Pluripotent Stem Cell Facility.
2002-05 Director of the SickKids ES Facility until Feb 2005.
1997-2005 Director of the SickKids Transgenic Facility until Feb 2005.

Seminar Series Organizer

- 1998-99 U of T Molecular & Medical Genetics Seminar Series (with Dr. M. Perry).
1997-98 SickKids Genetics Seminar Series.

Committees

- 2018 SickKids Research Integrity Committee (Chair).
2018 U of T Department of Molecular Genetics Awards Committee.
2018 SickKids Research Institute Staff Review Committee.

2015-16 SickKids Electronic Lab Notebook Steering Committee.
2015-16 SickKids RTC STRIDE Program Management Committee.
2014-16 SickKids Research Integrity Committee (Chair).
2014 SickKids Transplant Centre Review Committee.
2010-13 SickKids Heart Centre Biobank Registry Steering Committee.
2010 SickKids DSCB Head Search Committee.
2009-13 SickKids Research Institute Biosafety Committee (Chair).
2008-15 SickKids Research Institute Staff Review Committee.
2007-10 SickKids GGB Epigenetics Search Committee.
2005 U of T Medical Genetics & Microbiology Undergraduate Committee.
2004 Toronto Centre for Phenogenomics Specialty Resources Sub-Committee.
SickKids 3 yr Review Committee of Dr. Y. Dror.
SickKids 3 yr Review Committee of Dr. C. Taylor.
2003-08 SickKids Biosafety Advisory Group.
2003 SickKids 3 yr Review Committee of Dr. M. Abdelhaleem (Chair)
2002-04 SickKids User Committee Transgenic Mouse and ES Cell Facilities (Chair).
2002 SickKids Vet Search Committee.
SickKids 6 yr Review Committee of Dr. J. Hu.
2001-02 SickKids Search Committee for ES Cell Technician (Chair).
2001 SickKids User Group on Animal Facility in new Research Building.
SickKids Task Group on UHN Move.
Stem Cell Network Committee on Draft ART Legislation.
SickKids Lab Animal Services Users Committee.
2000 SickKids Infrastructure Committee.
1999 SickKids Vectorologist Search Committee.
1998 SickKids Research Institute Staff Performance Review Committee.
SickKids ES Cell Facility Planning Committee (Chair).
1997-98 SickKids Genetics Search Committee.
SickKids Clinical Genetics Search Committee.
1996-97 SickKids Animal Facility Management Committee.
1996 SickKids Pin Worm Task Force.
1995-96 SickKids Mouse User's Committee.
1995 Internal Scientific Advisory Committee - SickKids Lung Gene Therapy.
1994-96 SickKids Transgenic User's Committee.

SickKids Scientific Advisor

2005-08 Dr. Chet Taylor (Scientist in IIIR).
2002-06 Dr. Eyal Grunebaum (Clinician Scientist in IIIR).

Teaching

Lectures on Gene Expression, Gene Therapy and Regenerative Medicine:

2018 MM3MC Masters Class on "Human Induced Pluripotent Stem Cells in Neurobiology". Department of Human Genetics, Radboud University, Nijmegen NL (7 hrs).
2016-17 On Sabbatical leave (July 2016-June 2017).
2015 ANA498Y Oral presentation evaluations (2 hrs).
MGY420F "Gene Expression" (32 hrs).
2014 MGY420F "Gene Expression" (32 hrs).
2013 MGY420F "Gene Expression" (34 hrs).
2012 MGY420F "Gene Expression" (22 hrs).
Karolinska International Exchange Course on Developmental and Perinatal Biology (1 hr Guest lecture).
2011 MGY420F "Gene Expression" (22 hrs).
Human iPS Cell Training Course (1 hr).

Hong Kong – Toronto Stem Cell Course (1 hr).

2010 MMG1012H "Molecular Mechanisms in Psychiatric & Neurobiologic Disorders" (1 hr Guest Lecture on Rett Syndrome).
 MGY420F "Gene Expression" (20 hrs).
 LMP1520H "Translational Research in Pathobiology" (2 hr Guest lecture).
 Karolinska International Exchange Course on Developmental and Perinatal Biology (1 hr Guest lecture).

2009 Human iPS Cell Training Course (1 hr, Coordinator).
 MMG1012H "Epigenetics and Transcriptional Control" (12 hrs, Coordinator).
 MGY420F "Gene Expression" (6 hrs).

2008 Human iPS Cell Training Course (1 hr, Coordinator).
 MGY420F "Gene Expression" (6 hrs).
 MMG1012H "Epigenetics and Transcriptional Control" (12 hrs, Coordinator)
 Stem Cell Network "HES & iPS cell training course" (1 hr Guest Lecture).

2007 MMG1012H "Molecular Mechanisms in Psychiatric & Neurobiologic Disorders" (2 hrs Guest Lecture on Rett Syndrome).
 MGY420F "Gene Expression" (6 hrs).
 MMG1012H "Molecular Mechanisms in Psychiatric & Neurobiologic Disorders" (2 hrs Guest Lecture on Rett Syndrome).

2006 On Sabbatical leave (Jan - June).

2005 MGY420F "Gene Expression" (6 hrs).
 MMG 1226Y "From the Molecular defect to Phenotype to Burden" (2 hr Guest Lecture to MSc students in Genetic Counselling).

2004 MGY420F "Gene Expression" (6 hrs).
 JDB1025Y "Developmental Biology" (2 hr Guest Expert on Epigenetics).
 MGY420F "Gene Expression" (6 hrs).
 MMG 1226Y "From the Molecular defect to Phenotype to Burden" (2 hr Guest Lecture to MSc students in Genetic Counselling).

2003 MGB420F "Gene Expression" (6 hrs).
 MMG 1226Y "From the Molecular defect to Phenotype to Burden" (2 hr Guest Lecture to MSc students in Genetic Counselling).

2002 MGB420F "Gene Expression" (6 hrs).
 MMG 1226Y "From the Molecular defect to Phenotype to Burden" (2 hr Guest Lecture to MSc students in Genetic Counselling).

2001 LMP1019S "Advanced Molecular Biology Techniques" (2 hr Guest Lecture).
 MGB420F "Gene Expression" (6 hrs).
 LMP1019S "Advanced Molecular Biology Techniques" (2 hr Guest Lecture).

2000 MGB470S Molecular and Human Genetics course (1 hr Guest Lecture).
 MGB420F "Gene Expression" (6 hrs).
 LMP1019S "Advanced Molecular Biology Techniques" (2 hr Guest Lecture).
 JLM349 Special Topics " β -globin gene expression & gene therapy" (8 hrs).
 MGB470S Molecular and Human Genetics course (1 hr Guest Lecture).
 "Living and Learning in Retirement". York University. (2 hr Guest Lecture).

1999 MGB420F "Gene Expression" (6 hrs).
 LMP1019S "Advanced Molecular Biology Techniques" (2 hr Guest Lecture).
 JLM349 Special Topics " β -globin gene expression & gene therapy" (8 hrs).
 MGB470S Molecular and Human Genetics course (1 hr Guest Lecture).

1998 MGB420F "Gene Expression" (6 hrs).
 JLM349 Special Topics " β -globin gene expression & gene therapy" (8 hrs).
 MGB470S Molecular and Human Genetics course (1 hr Guest Lecture).

1997 SickKids Summer Student Program Career Day.
 MGB470S Molecular and Human Genetics course (1 hr Guest Lecture).
 CGAT Education Day for Science Teachers.
 SickKids Summer Student Program Career Day.

1995 Beta Sigma Phi 1997 Convention.
SickKids Summer Student Lecture Program.
University of Toronto Genetics Student Symposium.

Supervision of Current Trainees and Staff:

2018 Jiajie Liu (Tech 3).
2018 Leah DeJong (MSc student).
2018 Loryn Byres (MSc student).
2018 Joelle el Hajjar, Yuzi Xu (Summer students).
2017-18 Dr. Guoliang Meng (Tech 3).
2017-18 Marat Muftuev (PhD Student).
2017-18 Fraser McCready (MSc student).
2016-18 Dr. Matthew Hildebrandt (Post-Doctoral Fellow)
2012-18 Rebecca Mok (PhD Student).
2012-18 Dr. Deivid de Carvalho Rodrigues (Post-Doctoral Fellow promoted to Research Associate).
2012-18 Wei Wei (Tech 3).
2010-18 Alina Piekna (Tech 3).
1994-2017 Peter Pasceri (Tech 4).

Supervision of Previous Trainees:

2017-18 Ashrut Narula (MSc student).
2017-18 Caitlin Loo (Tech II).
2017-18 Dr. Sazia Sharmin (Post-Doctoral Fellow).
2017 Garrett Bulivant, Lyla El-Fayomi, Mohammadereza Amirazadeh (Rotation Students).
2016 Justin Belair-Hickey, Nicole Lindsay-Mosher (Rotation Students).
2016 Marat Muftuev (Summer Student).
2015-17 Caitlin Loo (MSc Student).
2014-17 Asli Dedeagac (Tech II).
2014-15 Melody Zhao (Undergraduate Project Student and Summer Student).
2014 Attey Rostami (Rotation Student).
2014 Pablo Cardozo, Melody Zhao (Summer Students).
2012-17 Kirill Zaslavsky (MD/PhD student).
2012-15 Dr. Dae-Sung Kim (Post-Doctoral Fellow).
2012-14 Wesley Lai (MSc Student).
2012-13 Zhanna Konovalova (Tech II).
2012 Javier Hernandez, Neha Thakkar, Samantha Yammine (Rotation Students).
2012 Jason Hendry (Summer Student).
2011-12 Jason Ko (Fourth Year Project Student).
2011 Kevin Lan (Rotation Student).
2010-16 Dr. Joel Ross (Post-Doctoral Fellow promoted to Research Associate).
2010-12 Dr. Shahryar Khattak (Research Associate).
2010 Tarunpreet Dhaliwal (Summer Student).
2009-12 Dr. Amy Wong (Post-Doctoral Fellow).
2009-10 Dr. Ilaria Meloni (visiting Post-Doctoral Fellow from Sienna, Italy for 8 months).
2009 Susan Anderson (Summer Student).
2008-15 Tadeo Thompson (Tech III).
2007-14 Ugljesa Djuric (PhD Student).
2007-13 Aaron Cheung (PhD Student).
2007-13 Dr. Sylvie Gervier (Research Associate).
2007 Nicholas Watkins, Bilge Yoruk, Mengshu Xu (Rotating Graduate Students).
2007 Aaron Cheung (Summer Student).
2007-12 Natalie Farra (PhD Student).

2006-10 Dr. Akitsu Hotta (Post-Doctoral Fellow).
 2006-08 Arash Khairandish (MSc student).
 2006-07 Maisam Makarem (Summer Student).
 2006 Sandra Smiley, Michele Li, Katie Welsh, Sidrah Ahmad, Shahab Shahnazari (Rotating Graduate Students).
 2006 Hady Felfly (visiting PhD student for 1 month, IRCM).
 2005-12 Mandy Lo (PhD Student).
 2005-08 Dr. Mojgan Rastegar (Post-Doctoral Fellow).
 2005-06 Soumitra Tole (Fourth Year Project Student).
 2005 Arash Khairandish (Research Student for 3 months).
 2005 Niki Alizadehvakili, Pinay Kainth, Ozan Baran (Rotating Graduate Students).
 2005 Shauna Elliott (Summer Student).
 2005 Anja Krauss (University of Perugia, Coop student).
 2004 Coco Jiang, Mariam Alexander, Sergey Doulatov, Julie Turnbull (Rotating Graduate Students).
 2004 Dr. Shuyuan Yao (Post-Doctoral Fellow - Temporary for 5 months).
 2004 Shauna Elliott (Fourth Year Project Student).
 2004 Orisha Yacyshyn, Emma Alston (Summer Students).
 2003-04 Audrey Lam (ES Cell Facility Technician).
 2003-04 Dr. Sumin Han (Post-Doctoral Fellow).
 2003 Anthony Vecchiarelli (Rotating Graduate Student).
 2002-05 Jason Ho (MSc Student).
 2002-05 Angela Moffett (MSc Student).
 2002-04 Rikki Bharadwaj (Tech II).
 2002-03 Margaret Bento (Algarve Biotechnology Coop student).
 2002 Dr. Dylan Pannell (Post-Doctoral Fellow - Temporary for 5 months).
 2001-02 Helen Dimaras (Summer Student and Fourth Year Project Student).
 2001 Brodie Nadeau (Rotating Graduate Student).
 2001 Tara Kean (UVic Biology Co-op Student).
 2000-08 Dr. Alla Buzina (Research Associate, promoted from Post-Doctoral Fellow).
 2000-02 Rikki Bharadwaj (MSc Student).
 2000 Joel Rubin (Tech II).
 1999-2004 Shuyuan Yao (PhD Student).
 1999-2003 Dr. Sharon Soodeen-Karamath (Post-Doctoral Fellow).
 1999 Alison Varga (Rotating Graduate Student).
 1999 Dr. Joydeep Basu (Post-Doctoral Fellow).
 1999 Inez Fazal (6 month MSc rotation in Dept. of Lab. Med. & Pathobiology).
 1998-2004 Linda Wei (Transgenic Facility Tech).
 1998-2000 Megon YiJun Wu (Tech II).
 1998 Mike Garroni (Rotating Graduate Student).
 1998 John Bowman (Summer Student).
 1997-2005 Tanya Sukonnik (Tech III, promoted from Tech II).
 1997-2002 Dylan Pannell (PhD Student).
 1997-2000 Joel Rubin (MSc Student).
 1997-98 Anne Huang (Transgenic Facility Tech).
 1997 Gilbert dos Santos, Kelly Murphy (Rotating Graduate Students).
 1997 Donna Tran (Summer Student).
 1996-2000 Dr. Cameron Osborne (Post-Doctoral Fellow).
 1996-97 Dylan Pannell (Summer Student & Fourth Year Project Student).
 1996 Sabrina Kim (Rotating Graduate Student).
 1996 Lauren Posner, Liz Hait (Summer Students).
 1995 Lauren Posner (Summer Student).
 1995-96 Kristen Donaldson (Tech I).
 1994-97 Xiumei Wu (Tech II).

Current Graduate Student Committees:

- 2018 Jennifer Kao, LMP (supervised by Dr. P. Diamandis).
- 2017-18 Lisa Shao, Molecular Genetics (supervised by Dr. J. Brill).
- 2013-18 Javier Hernandez, Molecular Genetics (supervised by Dr. J. Wrana).
- 2013-18 Eesha Sharma, Molecular Genetics (supervised by Dr. B. Blencowe).
- 2012-18 Ahmed Fahmy, Molecular Genetics (supervised by Dr. D. van der Kooy).

Previous Graduate Student Committees:

- 2015-16 Ilan Vonderwalde, IBBME (supervised by Dr. C. Morshead)
- 2015-16 Mikol Tsui, IMS (supervised by Dr. E. Grunebaum).
- 2015-16 Anna Matveev, IMS (supervised by Dr. Y. Dror).
- 2013-16 Hong Han, Molecular Genetics (supervised by Dr. B. Blencowe).
- 2013-16 Danielle Weber-Adrian, LMP (supervised by Dr. I. Aubert).
- 2013-16 Eesha Sharma, Molecular Genetics (supervised by Dr. B. Blencowe).
- 2013-16 Javier Hernandez, Molecular Genetics (supervised by Dr. J. Wrana).
- 2013-14 Zahra Baghestani, Biochemistry (supervised by Dr. D. Bazett-Jones).
- 2012-17 Chikin Kuok, Molecular Genetics (supervised by Dr. H. McNeill).
- 2012-16 Ahmed Fahmy, Molecular Genetics (supervised by Dr. D. van der Kooy).
- 2012-14 Kota Hatta, IMS (supervised by Dr. R.-K. Lee).
- 2011-15 Harvey Lim, Medical Biophysics (supervised by Dr. N. Iscove).
- 2011-13 Nika Shabiba, Inst Biomat & Bioeng (supervised by Dr. P. Zandstra).
- 2011-12 Cesar Yamarte, Inst Biomat & Bioeng (supervised by Dr. W. Stanford).
- 2010-15 Isabel Leung, Molecular Genetics (supervised by Dr. S. Sidhu).
- 2010-11 Julia DiLabio, LMP (supervised by Dr. P. Dirks).
- 2009 Magan Trottier, Molecular Genetics (supervised by Dr. S. Meyn).
- 2008-12 Maithe Arrudacarvalho, IMS (supervised by Dr. P. Frankland).
- 2007-14 Sandra Smiley, Molecular Genetics (supervised by Dr. J. Greenblatt).
- 2007-09 Phedias Diamandis, Molecular Genetics (co-supervised by Drs. M. Tyers and P. Dirks).
- 2007-09 Kendra Sturgeon, Molecular Genetics (supervised by Dr. S. Cordes).
- 2007-09 Aaron Kucharczuk, Molecular Genetics (supervised by Dr. S. Egan).
- 2006-13 Cindy Law, Medical Biophysics (supervised by Dr. P. Cheung).
- 2006-11 Eden Fussner, Biochemistry (supervised by Dr. D. Bazett-Jones)
- 2006-11 Emily Walker, Inst Biomat & Bioeng (supervised by Dr. W. Stanford).
- 2006-08 Mohsen Hosseini, Molecular Genetics (supervised by Dr. D. van der Kooy).
- 2006-08 Zvi Shalev, Molecular & Medical Genetics (supervised by Dr. C. Taylor).
- 2005-11 Julie Turnbull, Molecular Genetics (supervised by Dr. S. Scherer).
- 2005-08 Iris Fung, Medical Biophysics (supervised by Dr. A. Schuh).
- 2004-10 Feroz Sarkari, Molecular Genetics (supervised by Dr. L. Frappier).
- 2004-08 Katharine Hagerman, Molecular & Medical Genetics (supervised by Dr. C. Pearson).
- 2003-06 Rozita Razavi, Immunology (supervised by Dr. M. Dosch).
- 2003-05 Cyrus Handy, Inst Biomat & Bioeng (supervised by Dr. W. Stanford).
- 2003-04 Deanna Yaniv, IMS (supervised by Dr. J. Hu).
- 2003-04 Un Kwon, IMS (supervised by Dr. R. Wells).
- 2002-07 Joby McKenzie, Molecular & Medical Genetics (supervised by Dr. J. Dick).
- 2002-06 Ryan Davey, Inst. Biomaterials & Bioengineering (supervised by Dr. P. Zandstra).
- 2002-04 Baiwei Gong, IMS (supervised by Drs. I. Dube and M. Hough).
- 2002-04 Chris Eskiw, IMS (supervised by Dr. D. Bazett-Jones).
- 2002-04 Rita Ho, Molecular & Medical Genetics (supervised by Dr. A. Nagy).
- 2002-03 Elizabeth Karaskov, Laboratory Medicine and Pathobiology (supervised by Dr. R. Bremner).
- 2001-07 Kristin Hope, Molecular & Medical Genetics (supervised by Dr. J. Dick).

2001-03 Danielle Andrade, Molecular & Medical Genetics (supervised by Dr. S. Scherer).
 2001-03 Victoria Bonn, Laboratory Medicine & Pathobiology (supervised by Dr. P. Dirks).
 2001-03 Julien Marcadier, Molecular & Medical Genetics (supervised by Dr. C. Pearson).
 2000-06 Alison Varga, Molecular & Medical Genetics (supervised by Dr. J. Wrana).
 2000-04 Elayne Chan, Molecular & Medical Genetics (supervised by Dr. S. Scherer).
 2000-03 Brian Bobechko, Laboratory Medicine & Pathobiology (supervised by Dr. R. Bremner).
 2000-02 Peter Azmi, Immunology (supervised by Dr. M. Shulman).
 2000-01 Chelsea Taylor, IMS (supervised by Dr. N. Olivieri).
 1999-2002 Diana Ronai, Immunology (supervised by Dr. M. Shulman).
 1999-2002 Aihua Song, Immunology (supervised by Dr. M. Dosch).
 1999-2001 Eniko Molnar, Molecular & Medical Genetics (supervised by Dr. J. Segall).
 1999-2000 Mike Garroni, Molecular & Medical Genetics (supervised by Dr. M. Perry).
 1999 Tim Klempner, Molecular & Medical Genetics (supervised by Dr. R. McInnes).
 1998-2003 Hassina Benchabane, Molecular & Medical Genetics (supervised by Dr. J. Wrana).
 1998-2003 Michael Costanzo, Molecular & Medical Genetics (supervised by Dr. B. Andrews).
 1998-2003 Tina Avolio, Molecular & Medical Genetics (supervised by Dr. L. Frappier).
 1998-2003 Samantha Pattenden, Laboratory Medicine and Pathobiology (supervised by Dr. R. Bremner).
 1998-2000 Felipe Cisternas, Molecular & Medical Genetics (supervised by Dr. P. Ray).
 1998-2000 Benjamin Isserlin, Molecular & Medical Genetics (supervised by Dr. P. Ray).
 1998 Mara Schvarstein, Molecular & Medical Genetics (supervised by Dr. S. Cordes).
 1997-2001 Carol Portwine, IMS (supervised by Dr. D. Malkin).
 1997-99 Sammy Kim, Molecular & Medical Genetics (supervised by Dr. J. Wrana).
 1997-98 Sharan Goobie, Molecular & Medical Genetics (supervised by Dr. J. Rommens).
 1996-2001 Ching Ching Leow, Molecular & Medical Genetics (supervised by Dr. S. Egan).
 1996-2000 Agnieska Seyda, Biochemistry (supervised by Dr. B. Robinson).
 1994-97 Susan Clapoff, IMS (supervised by Dr. L.C. Tsui).

Ph.D. Thesis Examination Committees:

2018 Charlene Khademullah, Cell & Systems Biology. Acted as Chair.
 2017 Chikin Kuok, Molecular Genetics (supervised by Dr. H. McNeill).
 2017 Kirill Zaslavsky, Molecular Genetics (supervised by Dr. J. Ellis).
 2015 Harvey Lim, Medical Biophysics (supervised by Dr. N. Iscove).
 2014 Ryan Salewski, IMS (supervised by Dr. M. Fehlings).
 2014 Kota Hatta, IMS (supervised by Dr. R.-K. Lee).
 2014 Melanie Jeffrey, Pharmacology and Toxicology. Acted as Chair.
 2014 Ugljesa Djuric, Molecular Genetics (supervised by Dr. J. Ellis).
 2014 Cindy Law, Medical Biophysics (supervised by Dr. P. Cheung).
 2013 Aaron Cheung, Molecular Genetics (supervised by Dr. J. Ellis).
 2013 Kristen Kernohan, Western University (supervised by N. Berube). Acted as External Examiner.
 2013 David Tsui, IMS (supervised by Dr. F. Miller).
 2012 Priscilla Lau, Medical Biophysics (supervised by Dr. P. Cheung).
 2012 Mandy Lo, Molecular Genetics (supervised by Dr. J. Ellis).
 2012 Natalie Farra, Molecular Genetics (supervised by Dr. J. Ellis).
 2012 Julie Turnbull, Molecular Genetics (supervised by Dr. S. Scherer).
 2011 Heidi Schweltnus, Rehabilitation Science. Acted as Chair.
 2011 Eden Fussner, Biochemistry (supervised by Dr. D. Bazett-Jones).
 2011 Zhang Wei, HKU (supervised by Dr. K.C. Tan-Un). Acted as External Examiner.
 2011 Emily Walker, Inst Biomat & Bioeng (supervised by Dr. W. Stanford).
 2010 Pearl Campbell, University of Ottawa (supervised by M. Rudnicki). Acted as External Examiner.

2010 Feroz Sarkari, Molecular Genetics (supervised by Dr. L. Frappier).
 2009 Kimberley Lau, MBP. Acted as Chair.
 2009 Katharine Hagerman, Molecular Genetics (supervised by Dr. C. Pearson).
 2008 Joel Ross, University of Ottawa (supervised by R. Parks). Acted as External Examiner.
 2008 Angelina Stojanova, Medical Biophysics (supervised by L. Penn).
 2007 Joby McKenzie, Molecular & Medical Genetics (supervised by Dr. J. Dick).
 2007 Silvia Bakovic, UBC (supervised by Dr. K. Humphries). Acted as External Examiner.
 2007 Kristin Hope, Molecular & Medical Genetics (supervised by Dr. J. Dick).
 2006 Ryan Davey, Inst. Biomaterials & Bioengineering (supervised by Dr. P. Zandstra).
 2006 Alison Varga, Molecular & Medical Genetics (supervised by Dr. J. Wrana).
 2006 Katarina Magnusson, Zoology. Acted as Chair.
 2005 Jeffrey Wong, Medical Biophysics (supervised by H. Klamut).
 2004 Farbod Shojaie, University of Western Ontario (supervised by Dr. M. Bhatia). Acted as External Examiner.
 2004 Elayne Chan, Molecular & Medical Genetics (supervised by Dr. S. Scherer).
 2004 Chris Eskiw, IMS (supervised by Dr. D. Bazett-Jones).
 2004 Shuyuan Yao, Molecular & Medical Genetics (supervised by Dr. J. Ellis).
 2003 Hassina Benchabane, Molecular & Medical Genetics (supervised by Dr. J. Wrana).
 2003 Michael Costanzo, Molecular & Medical Genetics (supervised by Dr. B. Andrews).
 Samantha Pattenden, Laboratory Medicine and Pathobiology (supervised by Dr. R. Bremner).
 2002 Aihua Song, Immunology (supervised by Dr. M. Dosch).
 2002 Dylan Pannell, Molecular & Medical Genetics (supervised by Dr. J. Ellis).
 2002 Ching Ching Leow, Molecular & Medical Genetics (supervised by Dr. S. Egan).
 2001 Carol Portwine, IMS (supervised by Dr. D. Malkin).
 2000 Craig Mizzen, Physiology (supervised by Dr. D. McLachlan).
 2000 William McMartin, Forestry. Acted as Chair.
 2000 Agnieska Seyda, Biochemistry (supervised by Dr. B. Robinson).
 2000 Maija Partenen, IMS (supervised by Dr. C-c Hui).
 1999 Fotula Karantzoulis-Fegaras, Laboratory Medicine and Pathobiology (supervised by Dr. P. Marsden). Acted as Internal Appraiser.
 1996 Andre Larochelle, Molecular & Medical Genetics (supervised by Dr. J. Dick). Acted as Internal Appraiser.

Ph.D. Qualifying Examination Committees:

2018 Naijin Li, Molecular Genetics (supervised by Dr. P. Dirks).
 2018 Marat Mufteev, Molecular Genetics (supervised by Dr. J. Ellis).
 2018 Milena Kotic, Pharmacy (supervised by S. Angers).
 2008 Ugljesa Djuric, Molecular Genetics (supervised by Dr. J. Ellis).
 2007 Eden Fussner, Biochemistry (supervised by Dr. D. Bazett-Jones).
 2006 Ryan Draker, Laboratory Medicine and Pathobiology (supervised by Dr. P. Cheung).
 2004 Jason Yantha, Immunology (supervised by Dr. M. Dosch).
 2004 Michele Rey, Molecular & Medical Genetics (supervised by Dr. C. Taylor).
 2003 John Cleary, Molecular & Medical Genetics (supervised by Dr. C. Pearson).
 2001 Shuyuan Yao, Molecular & Medical Genetics (supervised by Dr. J. Ellis).
 2000 Belma Ljutic, Immunology (supervised by Dr. J.C. Zuniga-Pflucker).
 2000 Michael Costanzo, Molecular & Medical Genetics (supervised by Dr. B. Andrews).
 2000 Aihua Song, Immunology (supervised by Dr. M. Dosch).
 1999 Hassina Benchabane, Molecular & Medical Genetics (supervised by Dr. J. Wrana).

- 1999 Tina Avolio, Molecular & Medical Genetics (supervised by Dr. L. Frappier).
- 1998 Jasmine Wong, Molecular & Medical Genetics (supervised by Dr. M. Buchwald).
- 1998 Craig Dorrell, Molecular & Medical Genetics (supervised by Dr. J. Dick).

MSc. Thesis Examination Committees:

- 2017 Ashkan Azimi, IMS (supervised by Dr. C. Morshead).
- 2014 Liubov Krichevsky, Medical Biophysics (supervised by Dr. C. Arrowsmith).
- 2012 Cesar Yamarte, Inst Biomat & Bioeng (supervised by Dr. W. Stanford).
- 2011 Julia DiLabio, LMP (supervised by Dr. P. Dirks).
- 2010 Arash Khairandish, Molecular Genetics (supervised by Dr. J. Ellis).
- 2009 Kendra Sturgeon, Molecular Genetics (supervised by Dr. S. Cordes).
- 2009 Magan Trottier, Molecular Genetics (supervised by Dr. S. Meyn).
- 2009 Aaron Kucharczuk, Molecular Genetics (supervised by Dr. S. Egan).
- 2009 Radha Chaddah, IMS (supervised by Dr. D. van der Kooy).
- 2008 Tara Belsito, Molecular Genetics (supervised by Dr. S. Lewis).
- 2008 David Anchel, Biochemistry (supervised by Dr. D. Bazett-Jones).
- 2007 Dongqing Liu, Molecular & Medical Genetics (supervised by Dr. J. Greenblatt).
- 2006 Gregory Block, Biochemistry (supervised by Dr. D. Bazett-Jones).
- 2005 Angela Moffett, Molecular & Medical Genetics (supervised by Dr. J. Ellis).
- 2005 Cyrus Handy, Inst Biomat & Bioeng (supervised by Dr. W. Stanford).
- 2005 Jason Ho, Molecular & Medical Genetics (supervised by Dr. J. Ellis).
- 2004 Deanna Yaniv, IMS (supervised by Dr. J. Hu).
- 2004 Margaret Hing, Molecular & Medical Genetics (supervised by Dr. L. Frappier).
- 2004 Baiwei Gong, IMS (supervised by Drs. I. Dube and M. Hough).
- 2004 Un Kwon, IMS (supervised by Dr. R. Wells).
- 2004 Rita Ho, Molecular & Medical Genetics (supervised by Dr. A. Nagy).
- 2003 Danielle Andrade, Molecular & Medical Genetics (supervised by Dr. S. Scherer).
- 2003 Victoria Bonn, Laboratory Medicine & Pathobiology (supervised by Dr. P. Dirks).
- 2003 Brian Bobechko, Laboratory Medicine & Pathobiology (supervised by Dr. R. Bremner).
- 2003 Julien Marcadier, Molecular & Medical Genetics (supervised by Dr. C. Pearson).
- 2002 Rikki Bharadwaj, Molecular & Medical Genetics (supervised by Dr. J. Ellis).
- 2001 Chelsea Taylor, IMS (supervised by Dr. N. Olivieri).
- 2001 Mike Garroni, Molecular & Medical Genetics (supervised by Dr. M. Perry).
- 2000 Harry Bremner, IMS (supervised by Dr. H. O'Brodovich).
- 2000 Felipe Cisternas, Molecular & Medical Genetics (supervised by Dr. P. Ray).
- 1998 Sharan Goobie, Molecular & Medical Genetics (supervised by Dr. J. Rommens).
- 1997 Victor Mak, IMS (supervised by Dr. L.C. Tsui).

Ph.D. Reclassification Examination Committees:

- 2018 Shaghayegh Farhangmehr, Molecular Genetics (supervised by Dr. B. Blencowe).
- 2018 Fraser McCready, Molecular Genetics (supervised by Dr. J. Ellis).
- 2017 Neemat Mahmud, Physiology (supervised by Dr. F. Miller).
- 2015 Danielle Weber-Adrian, LMP (supervised by Dr. I. Aubert).
- 2014 Eesha Sharma, Molecular Genetics (supervised by Dr. B. Blencowe).
- 2014 Rebecca Mok, Molecular Genetics (supervised by Dr. J. Ellis).
- 2014 Javier Hernandez, Molecular Genetics (supervised by Dr. J. Wrana).
- 2013 Kirill Zaslavsky, Molecular Genetics (supervised by Dr. J. Ellis).
- 2013 Ahmed Fahmy, Molecular Genetics (supervised by Dr. D. van der Kooy).
- 2013 Chikin Kuok, Molecular Genetics (supervised by Dr. H. McNeill).
- 2012 Harvey Lim, Medical Biophysics (supervised by Dr. N. Iscove).
- 2012 Atom Wang, Medical Biophysics (supervised by Dr. M. Minden).
- 2012 Nika Shabiba, Inst Biomat & Bioeng (supervised by Dr. P. Zandstra).
- 2010 Mark Zander, IMS (supervised by Dr. F. Miller).

2009 Natalie Farra, Molecular Genetics (supervised by Dr. J. Ellis).
 2009 Aaron Cheung, Molecular Genetics (supervised by Dr. J. Ellis).
 2008 Cindy Law, Medical Biophysics (supervised by Dr. P. Cheung).
 2008 Sandra Smiley, Molecular & Medical Genetics (supervised by Dr. J. Greenblatt).
 2007 Phedias Diamandis, Molecular & Medical Genetics (co-supervised by Drs. M. Tyers and P. Dirks).
 2007 Rahul Kushwah, LMP (supervised by Dr. J. Hu).
 2007 Paul Cassar, IMS (supervised by Dr. W. Stanford).
 2007 Faiyaz Notta, Molecular & Medical Genetics (supervised by Dr. J. Dick).
 2007 Mandy Lo, Molecular & Medical Genetics (supervised by Dr. J. Ellis).
 2007 Pinay Kainth, Molecular & Medical Genetics (supervised by Dr. B. Andrews).
 2006 Emily Walker, Inst Biomat & Bioeng (supervised by Dr. W. Stanford).
 2006 Julie Turnbull, Molecular & Medical Genetics (supervised by Dr. S. Scherer).
 2005 Iulia Oprea, IMS (supervised by Dr. B. Minassian).
 2005 Ted Young, IMS (supervised by Dr. L. Osborne).
 2005 Melissa MacPherson, Molecular & Medical Genetics (supervised by Dr. P. Sadowski).
 2005 Katharine Hagerman, Molecular & Medical Genetics (supervised by Dr. C. Pearson).
 2005 Feroz Sarkari, Molecular & Medical Genetics (supervised by Dr. L. Frappier).
 2004 Rozita Razavi, Immunology (supervised by Dr. M. Dosch).
 2003 Joby McKenzie, Molecular & Medical Genetics (supervised by Dr. J. Dick).
 2003 James Kennedy, Molecular & Medical Genetics (supervised by Dr. J. Dick).
 2002 Angela Sing, Molecular & Medical Genetics (supervised by Dr. S. Cordes).
 2002 Ryan Davey, Inst. Biomaterials & Bioengineering (supervised by Dr. P. Zandstra).
 2002 Kristin Hope, Molecular & Medical Genetics (supervised by Dr. J. Dick).
 2001 Alison Varga, Molecular & Medical Genetics (supervised by Dr. J. Wrana).
 2001 Elayne Chan, Molecular & Medical Genetics (supervised by Dr. S. Scherer).
 2001 Peter Azmi, Immunology (supervised by Dr. M. Shulman).
 2001 Daniel Mao, Medical Biophysics (supervised by Dr. L. Penn).
 2000 Emily Cheng, Immunology (supervised by Dr. M. Shulman).
 1999 Samantha Pattenden, Laboratory Medicine and Pathobiology (supervised by Dr. R. Bremner).
 1999 Anouk-Martine Teichert, Laboratory Medicine and Pathobiology (supervised by Dr. P. Marsden).
 1999 Dylan Pannell, Molecular & Medical Genetics (supervised by Dr. J. Ellis).
 1998 Lyn Mar, Molecular & Medical Genetics (supervised by Dr. A. Nagy).
 1998 Sammy Kim, Molecular & Medical Genetics (supervised by Dr. J. Wrana).
 1997 Agnieska Seyda, Biochemistry (supervised by Dr. B. Robinson).
 1997 Ching Ching Leow, Molecular & Medical Genetics (supervised by Dr. S. Egan).

MSc. Reading Committees:

2002 Rana Abboud, Molecular & Medical Genetics (supervised by Dr. R. McInnes).
 2000 Roxanna Sultan, Molecular & Medical Genetics (supervised by Dr. M. Perry).
 2000 Joel Rubin, Molecular & Medical Genetics (supervised by Dr. J. Ellis).
 1999 Sammy Kim, Molecular & Medical Genetics (supervised by Dr. J. Wrana).
 1998 Jason Tanny, Molecular & Medical Genetics (supervised by Dr. J. Segall).

Poster Judge

2017 Till & McCulloch Meeting, Mt Tremblant QC.
 Molecular Genetics Retreat.
 2016 Molecular Genetics Retreat.
 2013 TAKAO symposium. Tokyo Japan.
 2012 Molecular Genetics Retreat.

2007	Stem Cell Network AGM.
2006	Molecular and Medical Genetics Retreat.
2006-7	SLRSSP Summer Student Symposium Day.
2000	SickKids Research Institute Retreat.
1998	U of T Medical Student Research Day.
1997	U of T Medical Student Research Day.

PUBLICATIONS

Journal Articles

1. Ellis J., and A. Bernstein. 1989. Gene targeting with retroviral vectors: recombination by gene conversion into regions of nonhomology. **Mol. Cell. Biol.** 9:1621-1627.
2. Huszar D., J. Ellis and A. Bernstein. 1989. A rapid and accurate method for determining the titer of retrovirus vectors lacking a selectable marker. **Technique** 1:28-32.
3. Ellis J., and A. Bernstein. 1989. Retrovirus vectors containing an internal attachment site: evidence that circles are not the intermediates to murine retrovirus integration. **J. Virol.** 63:2844-2846.
4. Steeg C.M., J. Ellis, and A. Bernstein. 1990. Introduction of specific point mutations into RNA polymerase II by gene targeting in mouse embryonic stem cells: evidence for a DNA mismatch repair mechanism. **Proc. Natl. Acad. Sci. (USA)** 87:4680-4684.
5. Ellis J., D. Talbot, N. Dillon, and F. Grosveld. 1993. Synthetic human β -globin 5'HS2 constructs function as locus control regions only in multicopy transgene concatamers. **EMBO J.** 12:127-134.
6. Ellis J., and F. Grosveld. 1993. Nuclear factors regulating erythroid progenitor cell differentiation and gene expression. **Sem. Dev. Biol.** 4:359-369.
7. Ellis J., K.C. Tan-Un, A. Harper, D. Michalovich, N. Yannoutsos, S. Philipsen and F. Grosveld. 1996. A dominant chromatin opening activity in 5' hypersensitive site 3 of the human β -globin locus control region. **EMBO J.** 15:562-568.
8. Ellis J. 1996. Retroviral gene therapy - as easy as α , β , γ ? **Mol. Med. Today** 2:318.
9. Guy, L.G., R. Kothary, Y. deRepentigny, J. Ellis and L. Wall. 1996. The β -globin locus control region enhances transcription of but does not confer position-independent expression onto the *LacZ* gene in transgenic mice. **EMBO J.** 15:3713-3721.
10. Ellis J., P. Pasceri, K.C. Tan-Un, X. Wu, A. Harper, P. Fraser and F. Grosveld. 1997. Evaluation of β -globin gene therapy constructs in single copy transgenic mice. **Nucleic Acids Research** 25:1296-1302.
11. Ellis J. 1997. Gene correction therapy on target. **Mol. Med. Today** 3:5.
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13. Pasceri P., D. Pannell, X. Wu and J. Ellis. 1998. Full activity from human β -globin Locus Control Region transgenes requires 5'HS1, distal β -globin promoter, and 3' β -globin sequences. **Blood** 92:653-663.
14. Ellis J. 1998. Bubbles, loops and globins. **Trends Gen.** 14:489.
15. Osborne C.S., P. Pasceri, R. Singal, T. Sukonnik, G.D. Ginder and J. Ellis. 1999. Amelioration of retroviral vector silencing in locus control region β -globin transgenic mice and transduced F9 embryonic cells. **J. Virol.** 73:5490-6
16. Pannell D., C.S. Osborne, S. Yao, T. Sukonnik, P. Pasceri, A. Karaiskakis, M. Okano, E. Li, H.D. Lipshitz and J. Ellis. 2000. Retrovirus vector silencing is de novo methylase-independent and marked by a repressive histone code. **EMBO J.** 19:5884-94.
17. Rubin J., P. Pasceri, X. Wu, P. Leboulch and J. Ellis. 2000. Locus Control Region activity by 5'HS3 requires a functional interaction with β -globin gene regulatory elements: expression of novel beta/gamma-globin hybrid transgenes. **Blood** 95:3242-9.
18. Jiang Z., Z. Gou, F.A. Saad, J. Ellis and E. Zachsenhaus. 2001. The Rb promoter directs transgene expression exclusively to the nervous system. **J. Biol. Chem.** 276:593-600.
19. Ellis J. and D. Pannell. 2001. The β -globin locus control region versus gene therapy vectors: a struggle for expression. **Clin. Genet.** 59:17-24.
20. Moreau-Gaudry F., P. Xia, G. Jiang, N.P. Perelman, G. Bauer, J. Ellis, K.H. Surinya, F. Mauvilio, C.K. Shen, and P. Malik. 2001. High level erythroid-specific gene expression in primary human and murine hematopoietic cells with self-inactivating lentiviral vectors. **Blood.** 98:2664-72. Accompanied by an "Inside Blood" article by D. Russell on p2595-6.
21. Pannell D. and J. Ellis. 2001. Silencing of gene expression: implications for design of retrovirus vectors. **Rev. Med. Virol.** 11:205-17.
22. Pawliuk, R., K.A. Westerman, M.E. Fabry, E. Payen, R. Tighe, E.E. Bouhassira, S.A. Acharya, J. Ellis, I.M. London, C.J. Eaves, R.K. Humphries, Y. Beuzard, R.L. Nagel, P. Leboulch. 2001. Correction of sickle cell disease in transgenic mouse models by gene therapy. **Science.** 294:2368-71. Accompanied by a "News of the Week" article by E. Marshall on p2268.
23. Bharadwaj R.R., C.D. Trainor, P. Pasceri, J. Ellis. 2003. LCR regulated transgene expression levels depend on the Oct-1 site in the AT-rich region of β -globin intron-2. **Blood** 101:1603-10.
24. Song, A., S. Winer, H. Tsui, A. Sampson, P. Pasceri, J. Ellis, J.F. Elliott, H.M. Dosch. 2003. Deviation of islet autoreactivity to cryptic epitopes protects NOD mice from diabetes. **Eur. J. Immunol.** 33:546-55.
25. Yao, S., Osborne C.S., R. Bharadwaj, P. Pasceri, T. Sukonnik, D. Pannell, F. Recillas-Targa, A.G. West and J. Ellis. 2003. Retrovirus silencer blocking by the cHS4 insulator is CTCF independent. **Nucleic Acids Research** 31:5317-23.
26. Ostermeier G.C., Z. Liu, R.P. Martins, R.R. Bharadwaj, J. Ellis, S. Dragici, S.A. Krawetz. 2003. Nuclear matrix association of the human β -globin locus utilizing a novel approach to quantitative real-time PCR. **Nucleic Acids Research** 31:3257-66.

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28. Dalle B.,* J.E. Rubin*, O. Alkan., T. Sukonnik, P. Pasceri, S. Yao, R. Pawliuk, P. Leboulch and J. Ellis. 2005. eGFP reporter genes silence LCRbeta-globin transgene expression via CpG dinucleotides. **Molecular Therapy** 11:591-599. * Equal first authors. Accompanied by an "Inside This Month" commentary on p494.
29. Ellis J. and S. Yao. 2005. Retrovirus silencing and vector design: relevance to normal and cancer stem cells? **Current Gene Therapy** 5:367-373.
30. Buzina A., M.I. Aladjem, J.L. Kolman, G.M. Wahl and J. Ellis. 2005. Initiation of DNA replication at the human beta-globin 3' enhancer. **Nucleic Acids Research** 33:4412-4424.
31. Lam P.P., Y.M. Leung, L. Sheu, J. Ellis, R.G. Tsushima, L.R. Osborne, H.Y. Gaisano. 2005. Transgenic mouse over-expressing Syntaxin-1A as a diabetes model. **Diabetes** 54:2744-2754.
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33. Ellis J. 2005. Silencing and variegation of gammaretrovirus and lentivirus vectors. **Human Gene Therapy** 16:1241-1246.
34. Ramunas J., H.J. Montgomery, L. Kelly, T. Sukonnik, J. Ellis* and E.J. Jervis*. 2007. Real-time fluorescence tracking of dynamic transgene variegation in stem cells. *Equal corresponding authors. **Molecular Therapy** 15:810-817. Accompanied by an "In This Issue" commentary on p646.
35. Ellis J., A. Hotta and M. Rastegar. 2007. Retrovirus silencing by an epigenetic TRIM. **Cell** 131:13-14.
36. Tsui H, Y Chan, L Tang, S. Winer, R.K. Cheung, G Paltser, T Selvanantham, A.R. Elford, JR Ellis, D.J. Becker, P.S. Ohashi, H.M. Dosch. 2008. Targeting of pancreatic glia in type 1 diabetes. **Diabetes** 57:918-28.
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38. Hotta A. and J. Ellis. 2008. Retroviral vector silencing during iPS cell induction: an epigenetic beacon that signals distinct pluripotent states. **J. Cell Biochem.** 105:940-948. Featured on cover art.
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41. Rastegar M., A. Hotta, P. Pasceri, M. Makarem, A.Y.L. Cheung, S. Elliott, K.J. Park, M. Adachi, F.S. Jones, I.D. Clarke, P. Dirks and J. Ellis. 2009. MECP2 isoform-specific vectors with regulated expression for Rett Syndrome gene therapy. **PLoS ONE** 4: e6810.
42. Sing A., D. Pannell, A. Karaiskakis, K. Sturgeon, M. Djabali, J. Ellis, H. Lipshitz and S.P. Cordes. 2009. A vertebrate Polycomb response element governs segmentation of the posterior hindbrain. **Cell** 138:885-897.
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