

CHRISTOPHER LEONARD BRETT, PHD**Professor of Biology**

Concordia University Research Chair in Applied Cell Science
 Co-Director, Centre for Microscopy & Cell Imaging
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EMPLOYMENT	2020 –	Professor, Concordia University
	2015 – 2020	Associate Professor (with tenure), Concordia University
	2010 – 2015	Assistant Professor, Concordia University
	2005	Research Associate, Johns Hopkins University, USA
AFFILIATIONS	2010 –	Professor, Concordia University (*primary)
	2020 –	Concordia University Research Chair in Applied Cell Science
	2011 –	Co-Director, Centre for Microscopy & Cellular Imaging, Concordia University
	2016 –	Member, Centre for Applied Synthetic Biology, Concordia University
	2013 – 2016	Adjunct Professor of Cell Biology & Anatomy, McGill University
DEGREES	2005 – 2010	Postdoctoral Fellow, Biochemistry, University of Washington, USA <i>Supervised by Alexey J. Merz, PhD</i>
	1999 – 2005	PhD, Cellular & Molecular Medicine, Johns Hopkins University, USA <i>Supervised by Rajini Rao, PhD & Mark Donowitz, MD</i>
	1996 – 1999	MSc, Physiology, University of British Columbia, Canada <i>Supervised by John Church, MD PhD</i>
	1992 – 1996	BSc (Hons), Physiology, University of British Columbia, Canada

HONOURS AND AWARDS

2019	Dean's Award for Excellence in Scholarship, Concordia University
2019	University Research Fellow/Award, Concordia University
2019	Distinguished Alumnus Lecture, Johns Hopkins University, Baltimore, USA
2011 – 2016	Canada Research Chair Tier 2 in Cellular Science & Human Health
2008	Conference Travel Award, American Society for Cell Biology
2005	David Israel Macht Doctoral Research Award, Johns Hopkins University
2003	Student Travel Award, Gordon Research Conference on Mechanisms of Membrane Transport
2002 – 2004	Predocctoral Research Fellowship, American Heart Association
1998	Student Conference Travel Award, University of British Columbia
1996 – 1998	University Graduate Fellowship, University of British Columbia
1993 – 1996	Dean's List, Faculty of Science, University of British Columbia

ii. RESEARCH

PUBLICATIONS (29 total; 2,438 total citations, h-index 20; *denotes trainees; IF > 9 journals in bold)

PEER-REVIEWED RESEARCH ARTICLES

- 2018 25. McNally EK* & Brett CL. (2018) The intraluminal fragment pathway mediates ESCRT-independent surface transporter down-regulation. **Nature Communications**. 9: 5358.
 24. Karim MA*, McNally EK*, Samyn DR*, Mattie S* & Brett CL. (2018) Rab-effector-kinase interplay regulates intraluminal fragment formation during lysosome fusion. **Developmental Cell**. 47: 80-97.

23. Karim MA*, McNally EK*, Mattie S* & Brett CL. (2018) Distinct features of multivesicular body-lysosome fusion revealed by a new cell-free content-mixing assay. *Traffic* 18: 138-49.
22. Karim MA* & Brett CL. (2018) The Na⁺(K⁺)/H⁺ exchanger Nhx1 controls multivesicular body-vacuolar lysosome fusion. *Molecular Biology of the Cell*. 29: 317-25.
∞ *Highlighted in American Society for Cell Biology newsletter*
- 2017 21. McNally EK*, Karim MA* & Brett CL. (2017) Selective lysosomal transporter degradation by organelle membrane fusion. **Developmental Cell**. 40: 151-67.
∞ *Reviewed by Faculty of 1,000*
20. Mattie S*, McNally EK*, Karim MA*, Vali H & Brett CL. (2017) How and why intraluminal membrane fragments form during vacuolar lysosome fusion. *Molecular Biology of the Cell*. 28: 309-21.
∞ *Highlighted in American Society for Cell Biology newsletter*
- 2013 19. Bögershausen N, Shahrzad N, Chong JX, von Kleist-Retzow JC, Stanga D, Li Y, Bernier FP, Loucks CM, Wirth R, Puffenberger EG, Hegele R, Schremi J, Lapointe G*, Keupp K, Brett CL, Anderson R, Hahn A, Innes AM, Suckoworsky O, Mets MB, Nürnberg P, Ober C, Parboosingh JS, Wollnik B, Sacher & Lamont RE. (2013) Recessive TRAPPC11 mutations cause a disease spectrum of limb girdle muscular dystrophy and myopathy with infantile hyperkinetic movements and intellectual disability. **American Journal of Human Genetics**. 93: 181-90.
18. Khorsand B, Lapointe G*, Brett CL & Oh JK. (2013) Intracellular drug delivery nanocarriers of glutathione-responsive degradable block copolymers having pendant disulfide linkages. *Biomacromolecules*. 14: 2103-11.
- 2012 17. Lockshon D, Olsen CP, Brett CL, Chertov A, Merz AJ, Van Gilst M & Kennedy BK. (2012) A protein kinase C-dependent signaling pathway regulates yeast membrane fluidity. *PLOS One*. 7(10): e45049.
16. Lo M, Brett CL, Plemel RL, Vignali M, Fields S, Gonen T & Merz AJ. (2012) Intrinsic tethering activity of endosomal Rab proteins. **Nature Structural & Molecular Biology**. 19(1): 40-7.
∞ *Reviewed by Faculty of 1,000*
- 2011 15. Kallay L§, Brett CL§, Tukaye DN, Wemmer MA, Chyou A, Odorizzi G & Rao R. (2011) Nhx1/Vps44 functions independently and downstream of multivesicular body formation. *Journal of Biological Chemistry*. 286(51): 44067-77. § equal contributors
14. Brett CL†, Kallay L, Hua Z, Chyou A, Donowitz M, Graham T & Rao R†. (2011) Genome-wide analysis reveals the vacuole pH-stat of *Sacchomyces cerevisiae*. *PLOS One* 6(3): e17619.
† *Corresponding authors*
13. Plemel RL, Lobingier B, Brett CL, Angers CA, Nickerson DP, Paulsel A, Sprague D & Merz AJ. (2011) Modular organization of Rab-interacting Vps-C protein complexes. *Molecular Biology of the Cell*. 22: 1353-63.
- 2008 12. Brett CL, Plemel RL, Lobingier B, Vignali M, Fields S & Merz AJ. (2008) Efficient termination of vacuolar Rab GTPase signaling requires coordinated action by a GAP and a protein kinase. **Journal of Cell Biology**. 182: 1141-51.
* *JCB Highlighted paper*, ∞ *Reviewed by Faculty of 1,000*
11. Brett CL & Merz AJ. (2008) Osmotic regulation of Rab-mediated docking. **Current Biology**. 18: 1072-7.
- 2006 10. Hill JK, Brett CL, Chyou A, Kallay LM, Sakaguchi M, Rao R & Gillespie PG. (2006) Vestibular hair bundles control pH with Na⁺,K⁺/H⁺ exchangers NHE6 and NHE9. *Journal of Neuroscience*. 26: 9944-55.
9. Mukherjee S, Kallay L, Brett CL & Rao R (2006) Mutational analysis of the intramembranous H10 loop of yeast Nhx1 reveals a critical role in ion homeostasis and vesicle trafficking. *Biochemical Journal*. 398: 97-105.
8. Brett CL, Donowitz M & Rao R. (2006) Does the proteome encode organellar pH? *FEBS Letters*. 580: 717-19.
- 2005 7. Brett CL†, Donowitz M & Rao R. (2005) The evolutionary origins of sodium/proton exchangers. *American Journal of Physiology: Cell Physiology*. 288: C223-39.
† *Corresponding author*, * > 470 citations
6. Brett CL, Tukaye DN, Mukherjee S & Rao R. (2005) The yeast endosomal Na⁺(K⁺)/H⁺ exchanger

Nhx1 regulates cellular pH to control vesicle trafficking. *Molecular Biology of the Cell*. 16: 1396-405.

∞ Reviewed by Faculty of 1,000

- 2004 5. Ali R, Brett CL, Mukherjee S & Rao R. (2004) Inhibition of sodium/proton exchange by a Rab-GTPase activating protein regulates endosomal traffic in yeast. *Journal of Biological Chemistry*. 27: 4498-506.
- 2002 4. Brett CL, Kelly T, Sheldon C & Church J. (2002) Regulation of Cl⁻/HCO₃⁻ exchangers by cAMP-dependent protein kinase in adult rat hippocampal CA1 neurons. *Journal of Physiology*. 545: 837-53.
3. Brett CL, Wei Y, Donowitz M & Rao R. (2002) Human Na⁺/H⁺ exchanger isoform 6 is found in recycling endosomes of cells, not in mitochondria. *American Journal of Physiology: Cell Physiology*. 282: C1031-41.
- 1999 2. Diarra A, Sheldon C, Brett CL, Baimbridge KG & Church J. (1999) Anoxia-evoked intracellular pH and Ca²⁺ concentration changes in cultured postnatal rat hippocampal neurons. *Neuroscience*. 93: 1003-16.
- 1998 1. Smith GA, Brett CL & Church J. (1998) Effects of noradrenaline on intracellular pH in acutely dissociated adult rat hippocampal CA1 neurones. *Journal of Physiology*. 512: 487-505.

BOOK CHAPTERS

- 2019 2. Karim MA*, Samyn DR* & Brett CL. (2019) A Cell-free content mixing assay for SNARE-mediated multivesicular body–vacuole fusion. *Methods in Molecular Biology*. 1860: 361-77.
1. Mattie S*, Kazmirchuk T*, Mui J, Vali H & Brett CL. (2019) Visualizing SNARE-mediated hemifusion by electron microscopy. *Methods in Molecular Biology*. 1860: 289-301.

REVIEW ARTICLES

- 2009 2. Nickerson D, Brett CL & Merz AJ. (2009) Vps class C effector complexes: Gate keepers of late endocytic traffic. ***Current Opinions in Cell Biology***. 21: 543-51.
- 2005 1. Donowitz M, Cha B, Zachos NC, Brett CL, Sharma A, Tse CM & Li X. (2005) NHERF family and NHE3 regulation. *Journal of Physiology*. 567: 3-11.

PREPRINTS

- Hurst LR, Zhang C, Kazmirchuk TDD*, Rivera-Kohr DA, Brett CL & Fratti RA. (2020) Sphingolipids with very long-chain fatty acids regulate vacuole fusion during tethering and docking. bioRxiv 953331. For resubmission to *EMBO Journal*.
- Patel D* & Brett CL. (2018) Acetate and hypertonic stress stimulate organelle membrane fission using distinct phosphatidylinositol signals. bioRxiv 398685. For resubmission to *PLOS One*.
- McNally EK*, Kazmirchuk TDD* & Brett CL. (2017) A multi-tiered system for lysosomal transporter protein down-regulation and quality control. Based on bioRxiv 204396. For submission to *Current Biology*.
- Golden CK*, McNally EK*, Kazmirchuk TDD*, Richard JD* & Brett CL. (2017) A two-tiered system for surface receptor and transporter protein down-regulation. Based on bioRxiv 167411. For submission to *Nature Cell Biology*.

MANUSCRIPTS IN PREPARATION

- McNally EK*, Kazmirchuk TDD* & Brett CL. Protein degradation by the intraluminal fragment pathway does not require ubiquitylation.
- Samyn DR*, Oliver J*, Golf M*, Zouboulakis K* & Brett CL. VRED and ILF pathways prevent lysosome rupture and cell death by oxidative stress.
- Patel D*, Jin QC*, McNally EK*, Karim MA*, Carnevale M*, Arcuri D*, Vachon V, Schwartz JL & Brett CL. Aqp3 is a vacuole aquaporin important for vacuole morphology and membrane fusion.

- McNally EK*, Samyn DR* & Brett CL. Selective membrane protein degradation and the intraluminal fragment pathway (review).
- McNally EK* & Brett CL. Lysosome/vacuole membrane remodeling by three selective protein degradation pathways (review).
- Oliver J*, Golden CK*, Kazmirchuk TDD*, MacDonald A* & Brett CL. Optimized extracellular vesicle isolation from *Saccharomyces cerevisiae*.

INVITED RESEARCH SEMINARS

- 2019 University of Cambridge, Department of Biochemistry, Cambridge, UK
**Faculty job interview*
 Montreal Neurological Institute, McGill University, Montreal, QC, Canada
**Killiam Institute Trust Seminar*
- 2018 National Research Council Canada, Ottawa, ON, Canada
 Brown University, Providence, RI, USA
 University of British Columbia, Vancouver, BC, Canada
 McGill University Health Centre Research Institute Glenn Site, Montreal, QC, Canada
 CHU Sainte-Justine, Université de Montréal, Montreal, QC, Canada
 Dartmouth College, Hanover, NH, USA
- 2017 University of Illinois Urbana-Champaign, Urbana, IL, USA
- 2015 Ryerson University, Toronto, ON, Canada
- 2012 McGill University, Department of Anatomy and Cell Biology, Montréal, QC
 Université de Montréal, Department of Pathology and Cell Biology, Montréal, QC
 Albert Einstein College of Medicine, Department of Neuroscience, New York, NY, USA
 Facility for Electron Microscopy Research, McGill University, Montréal, QC
 Montréal Neurological Institute, Montréal Membrane Trafficking Club, Montréal, QC
 Douglas Mental Health University Institute, Department of Neuroscience, Montréal, QC
 McGill University, Department of Pharmacology & Therapeutics, Montréal, QC
 Johns Hopkins University School of Medicine, Department of Physiology, Baltimore, MD, USA
 Concordia University, Centre for Studies in Behavioural Neurobiology, Montréal, QC
- 2011 Simon Fraser University, Department of Biological Sciences, Burnaby, BC
 Concordia University, Montréal Yeast Meeting, Montréal, QC
 Concordia University, Department of Chemistry & Biochemistry, Montréal, QC
- 2010 Université de Montréal, Department of Physiology and GÉPROM, Montréal, QC
 University of Virginia, Dept of Physiology & Biological Physics, Charlottesville, VA, USA
**Faculty job interview*
 Concordia University, Department of Biology, Montréal, QC
**Faculty job interview*
 University of California Davis, Dept of Physiology & Membrane Biology, Davis, CA, USA
**Faculty job interview*
 University of Victoria, Division of Medical Sciences, Victoria, BC
**Faculty job interview*
- 2009 Dalhousie University, Department of Physiology and Biophysics, Halifax, NS
**Faculty job interview*

CONFERENCE PRESENTATIONS (excluding 41 conference presentations by trainees)

- 2019 *Invited speaker*, Johns Hopkins University Cellular & Molecular Medicine Graduate Program Retreat, Baltimore, MD, USA
Invited speaker, XXVIII GEPROM Symposium on ‘‘Membrane protein structure, function and informatics’’, Montreal, QC
Invited speaker, Gordon Research Conference Organellar Channels & Transporters, West Dover, VT,

- USA
- 2018 *Speaker*, ‘Transforming Health Outcomes Through Engineered Cell and Gene Therapies’ Workshop, National Research Council Canada, Montreal, QC
Invited speaker, 2018 Annual Meeting of the Canadian Society for Molecular Biosciences, Banff, AB, Canada
- 2017 **Session organizer**, 2017 Annual Meeting of the Canadian Society for Molecular Biosciences, Ottawa, ON, Canada
- 2015 *Poster*, Gordon Research Conference Molecular Membrane Biology, Andover, NH, USA
Invited speaker, 2015 Annual Meeting of the Canadian Society for Molecular Biosciences, Halifax, NS, Canada
- 2014 **Co-organizer & Invited speaker**, 32nd Small Meeting on Yeast Transport and Energetics, Montreal, QC, Canada
- 2013 *Invited speaker*, PHARMAQAM Annual Colloquium, Université du Québec À Montréal, Montreal, QC, Canada
Poster, Gordon Research Conference on Molecular Membrane Biology, Andover, NH, USA
- 2012 *Poster*, Gordon Research Conference on Lysosomes & Endocytosis, Andover, NH, USA
- 2011 *Poster*, Fifth Annual Canadian Neuroscience Meeting, Québec, QC
- 2008 *Poster*, The American Society for Cell Biology Annual Meeting, San Francisco, CA, USA
Poster, Regulation and Function of Small GTPases, FASEB Summer Research Conference, Saxtons River, VT, USA
- 2007 *Invited speaker*, Biophysics of Fusion, Fission, and Rafts in Health and Disease, Society of General Physiologists 61st Annual Meeting and Symposium, Woods Hole, MA, USA
- 2005 *Poster*, Gordon Research Conference on Mechanisms of Membrane Transport, Tilton, NH, USA
Invited speaker, Young Investigators’ Day Symposium, Johns Hopkins University, Baltimore, MD, USA
- 2003 *Invited speaker*, 21st Small Meeting on Yeast Transport and Energetics, Bonn, Germany
Poster, Gordon Research Conference on Mechanisms of Membrane Transport, Holderness, NH, USA
- 2002 *Poster*, CSBMCB’s 45th Annual Meeting and 12th Winternational Symposium on Membrane Proteins in Health and Disease, Banff, AB, Canada
- 2001 *Poster*, Gordon Research Conference on Mechanisms of Membrane Transport, Holderness, NH, USA
- 1998 *Poster*, Canadian Physiological Society Winter Meeting, Kimberly, BC, Canada

PRESS/MEDIA COVERAGE OF RESEARCH

- 2020 “Discover how Synthetic Biology is reshaping our world at 4TH SPACE” Concordia NOW
- 2019 “Concordia celebrates the exceptional research achievements of 9 faculty members” Concordia NOW
- 2018 “From digital storytelling to net-zero energy buildings: 9 Concordia research units receive renewals” (CMCI) Concordia NOW
- 2017 “Fall Convocation 2017: ‘Your education is a life-long process’” (Erin McNally, previous student), Concordia NOW
“Concordia research centre gets \$52M funding injection” (CMCI) **CBC News, Global News**
- 2015 “Can yeast and synthetic techniques solve a 10-year old biological puzzle” (Jeremy Glass-Pilon, previous student) Concordia NOW
- 2014 “Senate approves official recognition for two new research units” (CMCI) Concordia NOW
- 2012 “Magnifying research efforts” Concordia NOW
- 2011 “Recognition for 7 Concordia professors” Concordia NOW, **AAAS EurekAlert!**

CURRENT RESEARCH GRANTS

- 2017 – 2022 NSERC Discovery Program, \$140,000 /5 years (100% to CL Brett)
- 2018 – 2022 Concordia University, OVPRGS Research Unit Program, \$260,000 /4 years to support CMCI (CL Brett, A Piekny, co-PIs)
- 2019 – 2020 Concordia University, OVPRGS Facilities Optimization Program, \$20,000 for equipment

2019 – 2020 Concordia University, FAS Special Projects & Events Fund, \$3,000 /1 year to support CMCI

SUBMITTED RESEARCH GRANT APPLCIATIONS

2020 – 2025 CIHR Program Grant Program, \$945,000 /5 years (100% to CL Brett)

*List excludes at least 14 unsuccessful applications to the: Canada Research Chair program (2016 as lead), CFI Innovation Fund program (2015 as lead; 2017 as co-applicant), CIHR Project Grant Program (2012, 2013, 2014 as lead), NSERC RTI Program (2019, 2018 as lead; 2016, 2017 as co-applicant), ELAP Faculty Mobility Program (2018, 2019 as lead), Human Frontier Science Program (2019 as lead), New Frontiers in Research Fund – Exploration (2019 as lead).

PREVIOUS EXTRENAL RESEARCH GRANTS

2017 – 2018 FRQS Groupe d'étude des protéines membranaires, \$16,000 /1 year (100% to CL Brett)
 2015 – 2018 FQRNT Projet de recherché en équipe program, \$227,579 /3 years (33% to CL Brett, J Capobianco, P Shizgal, co-PIs)
 2011 – 2016 NSERC Discovery Program, \$165,000 /5 years (100% to CL Brett)
 2011 – 2016 Canada Research Chair Tier 2, \$500,000 /5 years (100% to CL Brett)
 2015 – 2016 NSERC Research Tools & Infrastructure Program, \$112,478 for equipment (W Zerges lead; CL Brett and 6 others, co-PIs)
 2014 – 2015 CFI Infrastructure Operating Fund, \$18,500 to support CMCI (CL Brett, A Piekny, co-PIs)
 2014 – 2015 NSERC Research Tools & Infrastructure Program, \$117,657 for equipment (CL Brett lead; A Piekny, M Sacher, W Zerges, co-PIs)
 2013 – 2014 NSERC Research Tools & Infrastructure Program, \$90,451 for equipment (CL Brett lead; A Piekny, P Darlington, co-PIs)
 2013 – 2014 FRQS Groupe d'étude des protéines membranaires, Projet novateur program, \$18,000 /1 year (50% to CL Brett, G Lamoureux, co-PI)
 2011 – 2013 FQRNT Nouveau chercheur program, \$68,890 /2 years (100% to CL Brett)
 2011 – 2013 Canada Foundation for Innovation Leaders Opportunity Fund, \$304,679 for equipment (100% to CL Brett)
 2011 – 2012 FRQS Groupe d'étude des protéines membranaires, Projet novateur program, \$20,000 /1 year (50% to CL Brett, J-L Schwartz, co-PI)
 2011 – 2012 NSERC Research Tools & Infrastructure Program, \$44,327 for equipment (M Sacher lead; CL Brett, A Piekny, co-PIs)

PREVIOUS INTENAL RESEARCH GRANTS

2018 – 2019 Concordia University, FAS Special Projects & Events Fund, \$3,000 /1 year to support CMCI
 2014 – 2018 Concordia University, OVPRGS Research Unit program, \$164,000 /4 years to support CMCI (CL Brett, A Piekny, co-PIs)
 2017 – 2018 Concordia University, OVPRGS Aid to Research-Related Events Program, \$5,000 /1 year to support CMCI Workshops and Symposia
 2017 – 2018 Concordia University, OVPRGS Individual Seed Program, \$7,000 /1 year (100% to CL Brett)
 2016 – 2017 Concordia University, OVPRGS Facilities Optimization Program, \$19,154 for CMCI
 2015 – 2016 Concordia University, OVPRGS Facilities Optimization Program, \$20,000 for CMCI
 2015 – 2016 Concordia University, OVPRGS Individual Seed Program, \$7,000 /1 year (100% to CL Brett)
 2014 – 2015 Concordia University, OVPRGS Aid to Research-Related Events Program, \$5,000 /1 year to support Life Sciences Seminar Series
 2014 – 2015 Concordia University, OVPRGS Facilities Optimization Program, \$20,000 for CMCI (CL Brett lead; A Piekny, M Sacher, W Zerges, co-PIs)
 2013 – 2014 Concordia University, OVPRGS Facilities Optimization Program, \$15,000 for CMCI (CL Brett lead; A Piekny, P Darlington, co-PIs)

- 2013 – 2014 Concordia University, OVPRGS Seed Funding (Team) Program, \$13,500 /1 year (33% to CL Brett, G Lamoureux, D Walsh, co-PIs)
- 2011 – 2012 Concordia University, OVPRGS Facilities Optimization Program, \$2,924 for equipment (CL Brett lead; A Piekny, M Sacher, co-PIs)
- 2010 – 2012 Concordia University, Capital Startup and Operating Funds, \$135,000 (100% to CL Brett)

iii. TEACHING

POSTDOCTORAL FELLOW AND RESEARCH ASSOCIATE SUPERVISION

- 2020 – Dr. Jeffrey Bouffard, Postdoctoral Fellow (co-supervised by A. Kachroo), **2020-22 Concordia Horizon Postdoctoral Fellowship**
- 2016 – 2018 Dr. Dieter Samyn, Postdoctoral Fellow, **2016-18 Olle Engqvist Byggmästare Fellowship (Sweden), 2017 Quebec PBEEE Fellowship**
- 2011 – 2013 Dr. Gabriel Lapointe, Research associate

PHD STUDENT RESEARCH SUPERVISION

- 2018 – Charlotte Golden, PhD Biology (co-supervised by A. Piekny), 2018-20 NSERC CREATE Program in Applied Synthetic Biology Fellowship **fast-track into PhD from MSc*
- 2017 – Tom Kazmirchuk, PhD Biology, 2017-20 Concordia FAS Fellowship
- 2013 – 2017 Dr. Erin McNally, PhD Biology, Nominated for 2019 CGS/ProQuest Distinguished Dissertation Award, **2018 Concordia Distinguished Dissertation Award, 2017 Concordia FAS Vaedictorian**, 2017 Concordia PhD Accelerator Award, 2014-17, Concordia International Student Tuition Award, **2014 Alfred Kahler Continuing Education Award**, Travel Award & Best Poster Award 2015 CSMB Annual Meeting
- 2015 – 2017 Dr. Mahmoud Abdul Karim, PhD Biology, **Nominated for 2017 Concordia Governor General Gold Medal Award**, 2014-17 Concordia Merit Scholarship, 2014-17 Concordia Graduate Fellowship, Best Poster Award 2016 GRC Lysosomes & Endocytosis

MASTERS STUDENT RESEARCH SUPERVISION

- 2018 – Joshua Oliver, MSc Biology, 2018 Campaign for Concordia Graduate Award
- 2015 – 2018 Qiao Charlie Jin, MSc Biology
- 2014 – 2016 Jeremy Glass-Pilon, MSc Biology (withdrew from program), **2014 NSERC Masters Fellowship, 2015 FRQNT Masters Fellowship**
- 2011 – 2013 Dipti Patel, MSc Biology, **2012 GÉPROM Bourse recipient**
- 2011 – 2013 Mahmoud Abdul Karim, MSc Biology
- 2011 – 2013 Mark Guterman, MSc Biology
- 2011 – 2013 Joël Denis Richard, MSc Biology

UNDERGRADUATE STUDENT RESEARCH SUPERVISION

- 2020 – Claire Staton, BSc Hons Biology, **NSERC-Undergraduate Student Research Award**
- 2020 – Melodie Nadeau, BSc Hons Biology
- 2019 – 2020 Ali Farhat, BSc Hons Biology
- 2019 – 2020 Julian-Hery Robert, BSc Hons Biology
- 2019 – 2020 Melissa Magi, BSc Hons Biology

2019 – 2020	Ziheng Jiang, GrDip Biotechnology & Genomics
2018 – 2019	Adam MacDonald, BSc Hons Biology, 2019 Berti Farag Science Award
2018 – 2019	Mathew Golf, GrDip Biotechnology & Genomics
2017 – 2018	Katerina Zouboulakis, BSc Hons Biology
2015 – 2016	TingLi Lorigiano, BSc Hons Biology
2015	Leila Khelghatybana, BSc Hons Biology, NSERC-USRA
2014 – 2015	Domenico Arcuri, BSc Hons Biology
2014	Matthew Carnevale, BSc Hons Biology, Science College, NSERC-USRA
2014	Jeremy Glass-Pilon, BSc Hons Biology, Concordia-USRA
2014	Narges Kalantary, BSc Hons Chemistry & Biochemistry
2014	Alexandra Peebles, BSc Hons Biology
2013 – 2014	Rupinder Boora, BSc Hons Biology
2013 – 2014	Rasha Al Homisy, BSc Hons Biology, Science College
2013 – 2014	Max Howard, BSc Hons Biology
2013 – 2014	Zarin Arshy, BSc Hons Biology
2012 – 2013	Sevan Mattie, BSc Hons Biology, Science College, 2013 FAS Valedictorian, FRSQ Summer Research Award, NSERC-USRA
2012 – 2013	Jessica Ireland, BSc Hons Chemistry & Biochemistry, NSERC-USRA
2012	Giuseppe D’Asti, BSc Coop Chemistry & Biochemistry
2011 – 2012	Gabrielle Spenard-Bernier, BSc Hons Biology

GRADUATE THESIS RESEARCH COMMITTEES

Haoyu Wu (09/2018 –) • James Dhaliwal (09/2015 –) • Melisa Valente (07/2014 –) • Katuschia Germé (01/2014 –) • Cory Campbell (09/2013 –) • Daniela Stanga (05/2014 – 11/2019) • Tian Lai Guan (09/2015 – 01/2018) • Mindy Segal (01/2015 – 11/2017) • Deema Galambo (01/2016 – 09/2017) • Alexandra Peebles (09/2015 – withdrew) • Ariana Frederick (01/2014 – 12/2016) • Yuan Sun (09/2013 – 02/2017) • Alex Campbell (09/2013 – 12/2016) • Alexa Mariotti (09/2013 – 01/2015) • Damien Biot-Pelletier (03/2012 – 05/2017) • Denise Wernike (05/2012 – 05/2015) • Ron Garcia (09/2011 – 04/2013) • Daniel Spensieri (09/2013 – 09/2014) • Michael De Cicco (05/2012 – 09/2014) • David Colatriano (09/2011 – 09/2013) • Nellie Fotopoulos (09/2011 – 05/2013) • Débora Teixeira Duarte (09/2011 – 06/2012)

GRADUATE THESIS EXAM COMMITTEES

Tugba Nur Ozturk (07/2019) • Marie-Pierre Cossette (03/2019) • Ivan Trujillo (07/2016) • Nusrat Sharmeen (04/2016) • Anke Schreij (12/2015) • Vinod Balhara (07/2014) • Pavlo Kyryakov (08/2012) • Angela Rose Lapierre (08/2012) • Débora Teixeira Duarte (06/2012) • Kimchi Strasser (04/2012) • Michael Loloyan (12/2011) • Husni Haji Bik (04/2011) • Vincent Richard (05/2014) • Meena Kathiresan (04/2012) • Stephanie Brunet (03/2012) • Yu Zhang (12/2011) • Baharul Choudhury (06/2011)

COURSES INSTRUCTED

2019 Winter	BIOL 474-632E /01 Cellular Neuroscience, Concordia University 38 students; 24 x 1.25-hour lectures
2019 Fall	BIOL 382 /01 Comparative Animal Physiology, Concordia University 74 students; 24 x 1.25-hour lectures and 20 x 4-hour laboratory sessions
2018 Winter	BIOL 6020 /01 Readings in Cell & Molecular Biology, Concordia University 2 students; 12 x 2.5-hour lectures
2018 Winter	BIOL 474-632E /01 Cellular Neuroscience, Concordia University 31 students; 24 x 1.25-hour lectures
2018 Fall	BIOL 382 /01 Comparative Animal Physiology, Concordia University 72 students; 24 x 1.25-hour lectures and 20 x 4-hour laboratory sessions
2017 Winter	BIOL 474-632E /01 Cellular Neuroscience, Concordia University

	34 students; 24 x 1.25-hour lectures
2015 Winter	BIOL 474-632E /01 Cellular Neuroscience, Concordia University 37 students; 24 x 1.25-hour lectures
2015 Fall	BIOL 382 /01 Comparative Animal Physiology, Concordia University 37 students; 24 x 1.25-hour lectures and 10 x 4-hour laboratory sessions
2014 Winter	BIOL 602O /01 Readings in Cell & Molecular Biology, Concordia University 2 students; 12 x 2.5-hour lectures
2014 Winter	BIOL 474-632E /01 Cellular Neuroscience, Concordia University 35 students; 24 x 1.25-hour lectures
2014 Fall	BIOL 382 /01 Comparative Animal Physiology, Concordia University 37 students; 24 x 1.25-hour lectures and 10 x 4-hour laboratory sessions
2013 Winter	BIOL 474-632E /01 Cellular Neuroscience, Concordia University 40 students; 12 x 2.5-hour lectures
2013 Fall	BIOL 382 /01 Comparative Animal Physiology, Concordia University 33 students; 24 x 1.25-hour lectures and 10 x 4-hour laboratory sessions
2012 Winter	BIOL 498T-632E /01 Cellular Neuroscience, Concordia University 42 students; 12 x 2.5-hour lectures
2012 Fall	BIOL 382 /01 Comparative Animal Physiology, Concordia University 35 students; 24 x 1.25-hour lectures and 10 x 4-hour laboratory sessions
2011 Winter	BIOL 498T-632E /01 Cellular Neuroscience, Concordia University 38 students; 12 x 2.5-hour lectures
2011 Fall	BIOL 382 /01 Comparative Animal Physiology, Concordia University 35 students; 24 x 1.25-hour lectures and 10 x 4-hour laboratory sessions
2010 Winter	BIOL 498T-632E /01 Cellular Neuroscience, Concordia University 12 students; 12 x 2.5-hour lectures

COURSE CONTRIBUTIONS

2015 Winter	ANAT 458 /01 Winter. Membranes & Cellular Signaling, McGill University 70 students; 3 x 1-hour lectures, Dr. John Silvius (Course Coordinator)
2014 Winter	ANAT 458 /01 Winter. Membranes & Cellular Signaling, McGill University 60 students; 3 x 1-hour lectures, Dr. John Silvius (Course Coordinator)
2013 Winter	ANAT 458 /01 Winter. Membranes & Cellular Signaling, McGill University 60 students; 3 x 1-hour lectures, Dr. John Silvius (Course Coordinator)
2012 Winter	CHEM 476 /01 Winter. Structure & Function of Biomembranes, Concordia University 20 students; 1 x 2.5-hour lecture, Dr. Paul Joyce (Course Coordinator)

iv. SERVICE

SELECTED UNIVERSITY COMMITTEES AND ADMINISTRATIVE WORK

2019 –	University Senate Steering Committee
2019 –	Psychology Department (Ad hoc) Curriculum Committee for a new Neuroscience Major
2018 –	University Senate
2016 –	Biology Department Tenure Committee
2012 –	Co-Director, Co-founder of the Centre for Microscopy & Cellular Imaging (CMCI)
2012 –	CMCI Scientific Steering & Management Committee
2019 – 2020	Biology Department Hiring Committee for CRC Tier 2 in Cellular Systems Design
2018 – 2020	Faculty of Arts & Science Promotions and Tenure Committee
2014 – 2015	Biology Department Hiring Committee for Tenure Track Position in Synthetic Biology
2014	Biology Department Retreat & Research Symposium Organization Committee

- 2013 – 2014 Biology Department Hiring Committee for CRC Tier 2 in Synthetic Biology
- 2012 – 2014 School of Graduate Studies CIHR Graduate Award Internal Selection Committee
- 2011 – 2014 University Biohazards Committee
- 2011 – 2015 Co-organizer of the Biology Department Life Sciences Seminar Series
- 2011 Speaker at University Open House, Loyola Campus
- 2011 Speaker at Faculty of Arts & Science Dean's Reception
- 2010 Biology Department (Ad hoc) Curriculum Committee to approve dossier BIOL-13

EXTERNAL GRANT AGENCY AND RESEARCH NETWORK COMMITTEES AND SERVICE

- 2019 – Reviewer, CIHR “Cell Biology – Disease” Project Grant Competition Evaluation Committee
- 2016 – 2018 Executive Committee Member (1 of 5), GÉPROM - FRQS-funded research network
- 2012 – 2013 Reviewer, CIHR “Fellowships – Post-PhD” Evaluation Committee
- 2012 Organizer of Monthly Montreal Yeast Meeting

Ad hoc peer-review of applications for: NSERC Discovery Grant Program (2014, 2017, 2018), Deutsche Forschungsgemeinschaft (German Research Foundation; 2018), CFI-Leaders Opportunity Fund Program (2011, 2012), Canada Research Chairs Program (2012), National Science Foundation USA (2006, 2007, 2012), Czech Science Foundation (2006)

JOURNAL EDITORIAL COMMITTEES AND SERVICE

- 2018 – Academic Editor, PLOS One
- 2018 – Editorial Board Member, Biochemistry and Cell Biology (Canadian Science Publishing)
- 2013 – Faculty Member, Physiology Section, Faculty of 1,000 Prime

Ad hoc peer-review for: Journal of Clinical Investigation (2019), Journal of Cell Biology (2019), PLOS One (2011, 2014, 2019), Trends in Biochemical Sciences (2018), PLOS Genetics (2017), Molecular Biology of the Cell (2017), Scientific Reports (2014, 2017), Biochim Biophys Acta (2011), Journal of Microbiology (2011), Cellular Logistics (2011)

PROFESSIONAL SOCIETY MEMBERSHIP

- 2019 – American Society for Biochemistry & Molecular Biology
- 2014 – Canadian Society for Molecular Biosciences
- 2008 – American Society for Cell Biology
- 2011 – 2012 Canadian Association for Neuroscience