ACADEMIC CURRICULUM VITAE

Soheila Karimi, BSc, MSc, Ph.D.

		IDENTIFICATION		
Name: Soheila Karimi (Full name used as an author: Soheila Karimi-Abdolrezaee)				
Current Position:		Full Professor, Department of Physiology & Pathophysiology Founding Director, Manitoba Multiple Sclerosis Research Centre Scientist, Children's Hospital Research Institute of Manitoba Rady Faculty of Health Sciences Max Rady College of Medicine University of Manitoba		
Office Address:		745 Bannatyne Avenue 629 Basic Medical Sciences Winnipeg, MB R3E 0J9 Canada		
Phone: Email: University profi Lab homepage: Twitter Page: Citizenship: Gender:	le page	(204) 272-3109 Soheila.karimi@umanitoba.ca <u>https://umanitoba.ca/medicine/faculty-staff/soheila-karimi</u> <u>http://home.cc.umanitoba.ca/~karimis/</u> @KarimiLab Canadian Citizen Female (she/her)		
		EDUCATION		
2001-2006 1997-2001	Postdoctoral Fellowship: Neural Regeneration and Stem Cell Research Toronto Western Research Institute and University of Toronto, Toronto, ON, Canada PhD in Neurosciences			
	University of Saskatchewan, Department of Anatomy and Cell Biology, Saskatoon, Canada			
1989-1992	MSc in Human Histology Tehran University of Medical Science, Department of Anatomy, Tehran, Iran			
1985-1989	BSc in Ar Shiraz Ur Iran	imal Biology iversity, Department of Biology, Shiraz University, Shiraz,		

ACADEMIC AND RESEARCH APPOINTMENTS

2021-present	Founding Director, Manitoba Multiple Sclerosis Research Center, University of Manitoba, Winnipeg, Manitoba, Canada
2021-present	Chair, Award and Recognition Committee, Department of Physiology and Pathophysiology, University of Manitoba, Winnipeg, Manitoba, Canada
2020-present	Full Professor, Department of Physiology and Pathophysiology, University of Manitoba, Winnipeg, Manitoba, Canada
2016-2020	Associate Professor, tenured, Department of Physiology and Pathophysiology, University of Manitoba, Winnipeg, Manitoba, Canada
2010-present	Scientist, Children's Hospital Research Institute of Manitoba, Winnipeg, Manitoba
2010-present	Principal Investigator, Spinal Cord Research Center, University of Manitoba,
2010-2020	Senior Scientist, Regenerative Medicine Program, University of Manitoba, Winnipeg, Manitoba, Canada
2010-present	Lead, Neural Regeneration and Stem Cell Program, Department of Physiology and Pathophysiology, University of Manitoba, Winnipeg, Manitoba, Canada
2010-2016	Assistant Professor, Department of Physiology and Pathophysiology, University of Manitoba, Winnipeg, Manitoba, Canada,
2007-2009	Adjunct Assistant Professor, Department of Surgery, Divisions of Neurosurgery and Anatomy, University of Toronto, Toronto, ON, Canada
2007-2009	Staff Scientist, Spine Program, University Health Network, Toronto, ON, Canada

AREA OF RESEARCH INTEREST

- Regenerative medicine •
- Translational neuroscience •
- Neural repair and regeneration •
- Spinal cord injury and multiple sclerosis •
- Neural stem cell biology and therapeutics •
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- Glia neurobiology Oligodendrocytes and myelin biology •
- Neuroinflammation and immune modulation •
- Mechanisms of neurodegeneration •
- •
- Transgenic and genetic approaches in neural systems Bioengineered drug delivery systems for CNS therapeutics •

DISTINCTIONS, HONORS AND AWARDS

2023	Nominated for Fellowship of the Canadian Academy of Health Sciences
2020	Named one of Canada's Top 100 Most Powerful Women of 2020, Women's Executive Network – Nominated by my institution and won in the category of Science and Technology
2018	Institutional nominee for the CIHR Gold Leaf Early Career Award
2018	Merit Award for outstanding contributions to Research, Teaching and Service at the University of Manitoba
2017	Edwin Kroeger Award for Distinction in Mentorship of Graduate Students, Rady Faculty of Health Sciences, Health Sciences Graduate Students Association, Univ. of Manitoba
2017	Nominee, Mentorship of Graduate Students, Faculty of Graduate Studies, Univ. of Manitoba
2007-2009	New Investigator Award, AOSpine North America
2006	Synthes Research Award, American Association of Neurological Surgeons, USA, annually presented to best published work on spinal cord injury
2006	Best presented paper in Regenerative Medicine Platform, University Health Network Research Day, Toronto, Ontario, Canada
2005	Basic Science Research Award, Cervical Spine Research Society, USA
2004-2006	Postdoctoral Fellowship, Ontario Neurotrauma Foundation,
2004-2006	Postdoctoral Fellowship, Heart and Stroke Foundation
2002-2004	Postdoctoral Fellowship, Canadian Institutes of Health Research (CIHR)
2005	Young Investigator Travel Award, 8 th International Neurotrauma Symposium (INTS), Netherlands
2005	Travel Award, International Society of Neural Regeneration, USA
2004	Young Investigator Travel Award, 7 th International Neurotrauma Symposium (INTS), Australia
2004	Travel Award, 22 nd National Neurotrauma Symposium (NNS), USA
1998-2001	PhD Studentship, University of Saskatchewan, Canada

RESEARCH FUNDING

Total Funding since 2010: ~\$8,400,000 (**\$7,300,000** operating and infrastructural funding (32 grants) and **\$1,100,000** trainees' funding (158 studentships, fellowships and travel/research awards)

2023-2028 The Canadian Institute of Health Research (CIHR), Project grant, Evaluating novel approaches to promote neuroregeneration and functional recovery after spinal cord injury, Amount: \$1,136,025 (Role: PI)

- 2022-2023 CIHR Bridge Funding, Univ. Manitoba, \$60,000 (Role: PI)
- 2022-2023 Small Research Equipment Funding Program, Univ. of Manitoba, \$25,000 (Role: PI)
- 2021-2022 NSERC Bridge Funding, Univ. Manitoba, \$30,000 (Role: PI)
- 2020-2023 The Multiple Sclerosis Society of Canada (MSSOC), Discovery Grant, Role and therapeutic potential of Neuregulin-1 in multiple sclerosis. Amount: \$399,400, (Role: PI)
- 2018-2024 The Canadian Institute of Health Research (CIHR), Project grant, Novel therapies to augment neurological benefits of cellular therapies for traumatic spinal cord injury, Amount: \$1,081,626, (Role: PI)
- 2018-2021 The European Wings for Life Spinal Cord Injury Foundation (WFL, Austria) Operating Grant, Targeting excessive lysosomal activity for prevention of cell death and enhanced tissue preservation after spinal cord injury, CAD \$475,000 (Euro 300,000), (Role: Co-PI, Primary PI: Eftekharpour)
- 2014-2021 The Canadian Institute of Health Research (CIHR), Operating grant: Title: Neuroregenerative approaches to enhance white matter repair and functional recovery following traumatic spinal cord injury. Amount: \$705,650, (Role: PI)
- 2017-2020 The Multiple Sclerosis Society of Canada (MSSOC), Discovery Grant, Role and therapeutic potential of Neuregulin-1 as a modulator of neuroinflammation and remyelination in multiple sclerosis. Amount: \$358,321, (Role: PI)
- 2017-2019 Paralyzed Veterans of America (PVA, USA), Increasing Neuroprotection and Regeneration after Spinal Cord Injury, Amount: USD 150,000, (Role: Co-PI, Primary PI: Eftekharpour)
- 2012-2019 Natural Sciences and Engineering Research Council of Canada (NSERC)-Discovery Grant, (with one-year extension and one-year additional funding as early career researcher) Functional roles of astrocytes in modulating neural stem and progenitor cells in the adult mammalian spinal cord Amount: \$198,000 (Role: PI)
- 2012-2022 Canada Foundation for Innovation Infrastructure Operating Fund (CFI-IOF) for maintenance of CFI funded infrastructure, Amount: \$48,000 (Role: PI)
- 2018-2019 Canadian Paraplegic Association (CPA, Manitoba): Operating Grant, A novel combinatorial approach to optimize the outcomes of current neural stem cell trials in traumatic spinal cord injury, Amount: \$50,000, (Role: PI)
- 2018-2019 Canadian Paraplegic Association (CPA, Manitoba): Operating Grant, Restoring function in paraplegic rats by selective activation of grafted serotonergic neurons. Amount: \$50,000/year, (Role: Co-investigator, PI: Dr. Larry Jordan),
- 2016-2017 Canadian Paraplegic Association (CPA, Manitoba): Operating Grant, Developing combinatorial stem cell-based and biomedical engineering

approaches for tissue reconstruction and neurological recovery after traumatic spinal cord injury, Amount: \$50,000, (Role: PI)

- 2015-2017 The Craig H. Neilsen Foundation (CHN, USA), Operating Grant, Targeting CSPGs signaling to enhance neural stem cell therapies in SCI, Amount: USD 300,000, (Role: PI).
- 2014-2017 Brain Canada: Manitoba Neuroimaging Platform, Amount: \$300,000, (Role: Co-applicant, Co-PIs: Drs. Chris Anderson and Marco Essig
- 2011 Canada Foundation for Innovation- Leader Opportunity Fund (CFI-LOF) and Manitoba Research and Innovation Fund (MRIF): Infrastructure. Translational Research Center for spinal cord injury, Amount: \$320,000 (Role: PI)
- 2014-2015 Canadian Paraplegic Association (CPA, Manitoba): Operating Grant, Developing combinatorial stem cell-based and biomedical engineering approaches for tissue reconstruction and neurological recovery after traumatic spinal cord injury, Amount: \$50,000, (Role: PI)
- 2015 Research Manitoba: Sponsorship Support for organizing the 5th Annual Manitoba Neuroscience Network Scientific Meeting on June 12, 2015, \$5,000.
- 2012-2014 Health Sciences Center (HSC) Foundation: Operating Grant, Investigating the inhibitory influence of glial scar-associated factors on the regenerative properties of multipotent spinal progenitors after spinal cord injury. Amount: \$70,000, (Role: Sole PI)
- 2012-2013 Canadian Paraplegic Association (CPA, Manitoba): Operating Grant, Enhancing axonal protection and remyelination after spinal cord injury by neuregulin-1 therapy through a bioengineered drug delivery approach, Amount: \$50,000, (Role: PI)
- 2012-2013 Thorlakson Foundation Fund, University of Manitoba, Developing bioengineered scaffolds of neural stem cells and growth factors for spinal cord injury repair. Amount: \$29,950 (Role: PI)
- 2012-2013 Children's Hospital Research Institute of Manitoba (CHRIM): Major Operating Grant, Investigating the potential of Neuregulin-1 therapy for myelin repair in spinal cord injuries Amount: \$40,000 (Role: PI)
- 2012-2013 University Research Grants Program (URGP), Developing in vivo siRNA gene silencing approaches in a pre-clinical model of rat spinal cord injury, Amount: \$7,500 (Role: PI)
- 2011-2012 Children's Hospital Research Institute of Manitoba (CHRIM): Major Operating grant, Impact of neuregulin-1/ErbB signaling on oligodendrocyte differentiation and remyelination after spinal cord injury. Amount: \$ 39,000 (Role: PI)
- 2010-2013 Research Manitoba (RM), Establishment Grant, Therapeutic activation of neural stem cells for repair of the injured spinal cord, Amount: \$ 100,000, (Role: Sole PI)

- 2010-2011 Manitoba Medical Services Foundation (MMSF), Understanding the role of neuroinflammation in therapeutic potential of endogenous neural stem/progenitor cells after spinal cord injury. Amount: \$ 20,000 (Role: PI)
- 2010-2011 University Research Grants Program (URGP), The role of neuregulin-1/ErbB signalling network in regulating the properties of neural stem/progenitor cells of the adult spinal cord, Amount: \$7,500 (Role: PI)
- 2009-2011 The Craig H. Neilsen Foundation (CHN, USA), Approaches to Induce Repair Mechanisms Mediated by Endogenous Neural Stem/Progenitor Cells after Spinal Cord Injury. Amount: USD 250,000 (Role: PI)
- 2009-2011 Christopher and Dana Reeve Paralysis Foundation (CRDF, USA), Title: Optimizing neural repair and plasticity after chronic spinal cord injury Amount: USD 150,000, transferred from U of Toronto to U of M, (Role: PI, Co-investigators: Drs. Michael Fehlings and Serge Rossignol).
- 2010-2011 Cervical Spine Research Society (CSRC, USA), Investigation of the neuroprotective effects of thioredoxin for spinal cord injury. Amount: USD 25,000 (Role: Co-investigator, PI: Dr. Eftekharpour)

THE KARIMI LABORATORY TRAINEES' FUNDING AND AWARDS:

Studentships and Fellowships

- 1. Amir Ziaee, MS Society of Canada Doctoral Studentship (\$22,000, 2023-2024, renewable up to 4 years)
- 2. Amir Ziaee: Rady Faculty of Health Sciences Graduate Studentship (\$36,000, 2022-2024)
- 3. Mojtaba Hosseini: U. Manitoba FGS Research Completion Scholarship (\$3,000, 2023)
- 4. Astrid Bravo Jimenez: The Hilary Kaufman Lerner Memorial Fund in Multiple Sclerosis, Rady Faculty of Health Sciences, University of Manitoba (\$3000, 2022)
- 5. Mojtaba Hosseini: Individual Trainee Grant, Wings for Life Spinal Cord Injury Foundation, Austria, (\$96,000, 2022-2024).
- 6. Astrid Bravo Jimenez: Research Manitoba Studentship, (\$17,850, 2022-2023)
- 7. Amir Ziaee: Research Manitoba Studentship, (\$12,000, 2022-2023, declined)
- 8. Mojtaba Hosseini: Research Manitoba Studentship, (\$17,850, 2022-2023, declined)
- 9. Maryn Woo: Undergraduate Research Award, Univ. of Manitoba (\$7,000, May-Aug 2022)
- 10. Harini Gopalakrishnanz: MITACS Internship Scholarship (\$7,000, July-Oct 2022)
- 11. Maria Del Toro Zechinelli, MITACS Internship Scholarship (\$7,000, July-Oct 2021)
- 12. Jessica Franco Aguado, MITACS Internship Scholarship (\$7,000, May-August 2019)
- 13. Amir Ziaee: The Hilary Kaufman Lerner Memorial Fund in Multiple Sclerosis, Rady Faculty of Health Sciences, University of Manitoba (\$3000, 2022)
- 14. Amir Ziaee: University of Manitoba Graduate Fellowship (UMGF) (\$14,000, 2021-2022)

- 15. Astrid Bravo Jimenez: MITACS Fellowship (\$15,000, 2021)
- 16. Mojtaba Hosseini: The Hilary Kaufman Lerner Memorial Fund in Multiple Sclerosis, Rady Faculty of Health Sciences, University of Manitoba (\$3000, 2021)
- 17. Ruidi Wang: BSc Med Summer Studentship (\$15,000, 2021-2022)
- 18. Khashayar Akbari: Med Summer Studentship (\$ 15,000, 2021-2022)
- 19. Narjes Šhahsavani: Manitoba Paraplegic /Will-to-Win Studentship (\$20,000, 2020-2022)
- 20. Ben Borys: Med Summer Studentship (\$ 7,500, 2020)
- 21. Mojtaba Hosseini: Manitoba Paraplegic /Will-to-Win Studentship (\$20,000, 2019-2021)
- 22. Narjes Shahsavani: International Graduate Student Scholarship (\$6,000, 2020)
- 23. Mojtaba Hosseini: University of Manitoba Graduate Fellowship (UMGF) (\$14,000, 2019-2020)
- 24. Christopher Hart: The Hilary Kaufman Lerner Memorial Fund in Multiple Sclerosis, Rady Faculty of Health Sciences, University of Manitoba (\$3000, 2019)
- 25. Mojtaba Hosseini: International Graduate Student Scholarship (\$6,200, 2019)
- 26. Narjes Shahsavani: Manitoba Graduate Scholarship (MGS) (\$35,000, 2018-2020)
- 27. Narjes Shahsavani: International Graduate Student Scholarship (\$5400, 2018)
- 28. Khashayar Akbari: NSERC Undergraduate Studentship (\$4500, 2018)
- 29. Eugene Kwak: BSc Med Summer Studentship (\$15,000, 2018-2019)
- 30. Arsalan Alizadeh: The Hilary Kaufman Lerner Memorial Fund in Multiple Sclerosis, Rady Faculty of Health Sciences, University of Manitoba (\$3000, 2018)
- 31. Scott Dyck: Research Manitoba and Manitoba Paraplegic Foundation Doctoral Studentship, (\$50,000, 2017-2019, completed in 2018 due to graduation)
- 32. Christopher Hart: Research Manitoba Doctoral Studentship, (\$35,750, 2017-2019)
- 33. Christopher Hart: University of Manitoba Graduate Fellowship, (\$36,000, 2017-2019, declined)
- 34. Graham McLeod: BSc Med Summer Studentship (\$15,000, 2017-2018)
- 35. Maria Astrid Bravo Jimenez, MITACS Internship Scholarship (\$7,000, May-Aug 2018)
- 36. Matthew Buchok: Med II Summer Studentship (\$7,500, 2017)
- 37. Ghazaleh Shahriary: Research Manitoba Masters Studentship, (\$35,750, 2016-2018)
- 38. Ryan Henrie: American Academy of Neurology Medical Research Scholarship (\$3000, 2016)
- 39. Shekoofeh Saboktakin Rizi: Med II Summer Studentship (\$7,500, 2016)
- 40. Ghazaleh Shahriary: International Graduate Student Scholarship (\$5400, 2015)
- 41. Hardeep Kataria: Postdoctoral Fellowship, Research Manitoba/Rick Hansen Institute (\$94,000, 2015-2017)
- 42. Christopher Hart: NSERC Alexander Graham Bell Graduate Studentship (\$17,500, 2015)
- 43. Christopher Hart: Research Manitoba Master's Studentship, (\$28,000, 2015-2017declined)
- 44. Scott Dyck: Research Manitoba Doctoral Studentship, (\$35,700, 2015-2017)
- 45. Arsalan Alizadeh: Research Manitoba Doctoral Studentship, (\$35,750, 2015-2017)
- 46. Arsalan Alizadeh: International Graduate Student Scholarship (\$4,000, 2015-2016)
- 47. Arsalan Alizadeh: International Graduate Student Scholarship (\$4,000, 2014-

2015)

- 48. Arsalan Alizadeh: Research Manitoba Master's Studentship, (\$35,750, 2013-2015)
- 49. Ryan Henrie: Manitoba Medical College Foundation- Anna Widiner Scholarship in cerebrovascular disease, Manitoba Medical College Foundation, (\$3250, March 2015)
- 50. Ryan Henrie: BSc Med Award (\$12,000, 2015-2016)
- 51. Graham McLeod: U of M Undergraduate Summer Research Award, (\$6000, March 2015)
- 52. Byung Heon Cho: U of M Undergraduate Summer Research Award, (\$6000, March 2015)
- 53. Scott Dyck: NSERC Alexander Graham Bell Graduate Studentship (\$17,500, 2013)-Declined Scott Dyck: Research Manitoba Master's Studentship, (\$35,700, 2013-2015)
- 54. Arsalan Alizadeh: International Graduate Entrance Scholarship (\$4,000, 2012-2013)
- 55. Dung Nguyen: American Academy of Neurology Medical Research Scholarship (\$3000, 2013)
- 56. Evan Proulx: U of M Undergraduate Summer Research Award, (\$6000, 2013)
- 57. Dung Nguyen: CIHR Undergraduate Summer Studentship (\$4,900, 2012)
- 58. Dung Nguyen: BSc Med Award (\$12,000, 2012-2013)

Graduate Enhancement of Tri-Council Stipends (GETS) Awards

- 59. Graduate Enhancement of Tri-Council Stipends (GETS) Award, \$18,000, 2021-2025, awarded for supplementary graduate stipend of Hari Joshi
- 60. Graduate Enhancement of Tri-Council Stipends (GETS) Award, \$30,000, 2019-2024, awarded for supplementary graduate stipend of Mojtaba Hosseini
- 61. Graduate Enhancement of Tri-Council Stipends (GETS) Award, \$9,700, 2021-2023, awarded for supplementary graduate stipend of Amir Ziaee
- 62. Graduate Enhancement of Tri-Council Stipends (GETS) Award, \$2,500, 2021-2022, awarded for supplementary graduate stipend of Mojtaba Hosseini
- 63. Graduate Enhancement of Tri-Council Stipends (GETS) Award, \$18,000, 2018-2021, awarded for supplementary graduate stipend of Narjes Shahsavani
- 64. Graduate Enhancement of Tri-Council Stipends (GETS) Award, \$37,000, 2017-2020, awarded for supplementary graduate stipend of Christopher Hart
- 65. Graduate Enhancement of Tri-Council Stipends (GETS) Award, \$21,000, 2015-2017, awarded for supplementary graduate stipend of Ghazaleh Shahriary
- 66. Graduate Enhancement of Tri-Council Stipends (GETS) Award, \$9,916, 2015-2017, for supplementary graduate stipend of Arsalan Alizadeh
- 67. Graduate Enhancement of Tri-Council Stipends (GETS) Award, \$14,000, 2015-2017, for supplementary graduate stipend of Scott Dyck

Trainees Research Awards and Distinctions

- 68. Mojtaba Hosseini, Larry Jordan Award of Excellence in Neurophysiology, University of Manitoba (2022)
- 69. Rachel Wang: The Morris Newman Memorial Award, Manitoba Medical Services Foundation (2022)

- 70. Khash Akbari-Kelachayeh: Award for Excellence in Basic Sciences with Potential for Commercial Application, Rady Faculty of Health Sciences, University of Manitoba (2022)
- 71. Mojtaba Hosseini, Winner of TMM2021 Abstract Competition Award, Canadian Stem Cell Network (2021)
- 72. Narjes Shahsavani, Dean of Faculty of Medicine Poster Award, Manitoba Poster Competition, University of Manitoba (2021)
- 73. Mojtaba Hosseini, Trainee & Diversity Award, the National Neurotrauma Society, USA (2021)
- 74. Narjes Shahsavani, Trainee & Diversity Award, the National Neurotrauma Society, USA (2021)
- 75. Ben Borys, Award for Outstanding Basic Science Research, Med Summer Research Program, Max Rady Faculty of Health Sciences, University of Manitoba (2020)
- 76. Christopher Hart: Larry Jordan Award of Excellence in Neurophysiology, Department of Physiology and Pathophysiology, U of M (2019)
- 77. Hardeep Kataria: Poster Award, Canadian Spinal Cord Injury Conference, Vancouver (2019)
- 78. Christopher Hart: Gairdner Student Award presented to the top five students in the Canadian Student Health Research Forum to attend Gairdner Symposium and Gala in Toronto (2018)
- 79. Graham McLeod: Travel Award to represent the BSc Med program at National Student Research Forum Galveston, Texas (2018)
- 80. Graham McLeod: Best BSc Med Interim report award, Manitoba Medical Services Foundation (2018)
- Braham McLeod: Award for Excellence in Basic Sciences with Potential for commercial application, Rady Faculty of Health Sciences, University of Manitoba (2018)
- 82. Graham McLeod: Outstanding BSc Med Presentation Award, Rady Faculty of Health Sciences, University of Manitoba (2018)
- 83. Christopher Hart: Dean of Faculty of Graduate Studies Poster Award, Manitoba Health Research Forum, Winnipeg (2018)
- 84. Christopher Hart: CIHR Gold Poster Award, Canadian Student Health Research Forum, Winnipeg (2018)
- 85. Matthew Buchok: Med II Best Project Award, Rady Faculty of Health Sciences, University of Manitoba (2017)
- 86. Arsalan Alizadeh: The Drewry Memorial Award for Highest Distinction in Health Sciences Research, University of Manitoba (2017)
- 87. Arsalan Alizadeh: Gairdner Student Award presented to the top three students in the Canadian Student Health Research Forum to attend GF Symposium in Toronto (2017)
- 88. Arsalan Alizadeh: Major Award: The Diagnostic Services Manitoba Award for Excellence in Translational Research (2017)
- 89. Arsalan Alizadeh: Dean of Medicine Poster Award, Manitoba Health Research Forum, Winnipeg, 2017
- 90. Arsalan Alizadeh: CIHR Gold Poster Award, Canadian Student Health Research Forum, Winnipeg, 2017
- 91. Chris Hart: Nick Shepel Poster Award, Manitoba Neuroscience Meeting

- 92. Scott Dyck: Most Promising Student Award, Life Science Association of Manitoba, 2017
- 93. Ryan Henrie: Outstanding Poster Award, American Society for Biochemistry and Molecular Biology, (Texas, USA) 2017
- 94. Ghazaleh Shahriary: Gold Medal Poster Prize at CHRIM Research Day, 2016
- 95. Santhosh Kalivalappil: Bronze Medal Poster Prize at CHRIM Research Day, 2016
- 96. Ryan Henrie: Schom Travel Award/Galveston Travel Award (to represent the program internationally), National Student Research Forum Texas, 2016
- Ryan Henrie: ADE & Co. Award for Excellence in Basic Sciences with Potential for commercial application, Rady Faculty of Health Sciences, University of Manitoba, 2016
- 98. Shekoofeh Saboktakin Rizi: Research award for best Med II project, Rady Faculty of Health Sciences, University of Manitoba, 2016
- 99. Ryan Henrie: BSc Med Manitoba Medical Services Foundation Award, 2016
- 100. Ryan Henrie: Best Summer Student Presentation, Regenerative Medicine Program, University of Manitoba, 2016
- 101. Scott Dyck: Poster Prize, the 5th Manitoba Neuroscience Network Meeting, 2016
- 102. Arsalan Alizadeh: Larry Jordan Award of Excellence in Neurophysiology, Department of Physiology and Pathophysiology, U of M, 2015
- 103. Arsalan Alizadeh: Silver Medal Poster Prize at CHRIM Research Day, 2015
- 104. Scott Dyck: Major Research Award, Manitoba Medical Service Foundation, 2015
- 105. Scott Dyck: Gold Medal in Manitoba Student Research Poster Competition, 2015
- 106. Scott Dyck: Silver Medal in National CIHR Student Poster Competition, 2015
- 107. Arsalan Alizadeh: Poster Prize, the 5th Manitoba Neuroscience Meeting, 2015
- 108. Scott Dyck: Larry Jordan Award of Excellence in Neurophysiology, Department of Physiology and Pathophysiology, U of M, 2014
- 109. Arsalan Alizadeh: Selected for Edge of Science Presentation, Department of Physiology and Pathophysiology, 2014
- 110. Arsalan Alizadeh: Gold Medal Poster Prize at MICH Research Day, 2014
- 111. Scott Dyck: Honorable mention for poster presented at MICH Research Day, 2014
- 112. Arsalan Alizadeh: 2nd place in Regenerative Medicine Trainees 3M Thesis, 2014
- 113. Scott Dyck: Edge of Science Award, Department of Physiology, U of M, 2013
- 114. Dung Hoang Nguyen: Neuroscience Society Winnipeg Chapter Award, 2013
- 115. Dung Hoang Nguyen: J.R. Nicholson for Greatest Scientific Merit Award, 2013
- 116. Marie-Krystel Gauthier: Silver Medal Poster Prize CHRIM Research Day, 2012
- 117. Marie-Krystel Gauthier: Gold Medal Poster Prize, CHRIM Research Day, 2011

TRAINEES TRAVEL AWARDS

- 118. Astrid Bravo Jimenez: IBRO Travel Award to attend the 2023 Canadian Association for Neuroscience Annual Meeting in Montreal, \$750, 2023
- 119. Mojtaba Hosseini: Nick Shepel Neuroscience Travel Award, \$1500, 2022
- 120. Mojtaba Hosseini: Canadian Stem Cell Network to attend the 2022 International Neurotrauma Symposium in Berlin, Germany, \$2500, 2022
- 121. Mojtaba Hosseini: IBRO Travel Award to attend the 2021 Canadian Association for Neuroscience Annual Meeting, 2021
- 122. Narjes Shahsavani, IBRO Travel Award to attend the 2021 Canadian Association for Neuroscience Annual Meeting, 2021

- 123. Narjes Shahsavani, Faculty of Medicine Travel Award, Univ. of Manitoba, 2020
- 124. Christopher Hart: FGS travel award to attend the Canadian Spinal Cord Injury Meeting, Vancouver, BC, \$750, 2019
- 125. Narjes Shahsavani: FGS travel award to attend the Canadian Spinal Cord Injury Meeting, Vancouver, BC, \$750, 2019
- 126. Hardeep Kataria: CHRIM Travel Award to attend the International Neurotrauma Symposium, Toronto, ON, \$1250, 2018
- 127. Christopher Hart: Canadian Health Research Forum Travel award, 2018 \$500
- 128. Arsalan Alizadeh: IBRO Travel Award to attend the 2018 Canadian Association for Neuroscience Annual Meeting, Vancouver, BC, 2018 \$750
- 129. Arsalan Alizadeh: FGS travel award to attend to attend the International Neurotrauma Symposium, Toronto, ON, 2018, \$750
- 130. Ghazaleh Shahriary: FGS travel award to Canadian Association for Neuroscience Annual Meeting, Vancouver, BC, \$750, 2018
- 131. Christopher Hart: Edge of Science Travel Award, Univ. of Manitoba, \$750, 2017
- 132. Christopher Hart: Travel Award from the International Symposium on Neural Regeneration Pacific Grove, CA, USD 500, 2017
- 133. Scott Dyck: Travel Award from the International Symposium on Neural Regeneration Pacific Grove, CA, USD 500, 2017
- 134. Christopher Hart: CHRIM Travel Award to attend the International Symposium for Neural Regeneration Pacific Grove, CA, 2017, \$1250
- 135. Hardeep Kataria: Neuroscience Nancy Hettie Clark Travel Award, \$700, 2017
- 136. Arsalan Alizadeh: Neuroscience Nancy Hettie Clark Travel Award, \$700, 2017
- 137. Arsalan Alizadeh: Nick Shepel Neuroscience Travel Award, \$500, 2017, 2017
- 138. Arsalan Alizadeh: Drewry Travel Award, Faculty of Health Sciences, U of M, \$1000, 2017
- 139. Arsalan Alizadeh: Manitoba Medical College Travel Award, \$500, 2017
- 140. Arsalan Alizadeh: CHRIM Travel Award to attend the Society for Neuroscience annual meeting in San Diego, CA, \$1250, 2016
- 141. Scott Dyck: Nick Shepel Neuroscience Travel Award, \$750, 2016
- 142. Arsalan Alizadeh: Univ. of Manitoba Graduate Student) Travel Award \$500, 2016
- 143. Chris Hart: UMGSA (U. Manitoba Graduate Student) Travel Award to attend the Society for Neuroscience annual meeting in San Diego, USA, \$500, 2016
- 144. Scott Dyck: UMGSA (U. Manitoba Graduate Student) Travel Award to attend the Society for Neuroscience annual meeting in San Diego, USA, \$500, 2016
- 145. Chris Hart: UMGSA (U. Manitoba Graduate Student) Travel Award to attend the Society for Neuroscience annual meeting in Chicago, USA, \$500, 2016
- 146. Chris Hart: FGS travel award to attend the Society for Neuroscience annual meeting in Chicago, \$750, 2016
- 147. Arsalan Alizadeh: UMGSA (U. Manitoba Graduate Student) Travel Award to attend the Canadian Spinal Cord Injury Meeting in Banff, \$500, 2015
- 148. Scott Dyck: Manitoba Medical Services Foundation travel award, \$500, 2015
- 149. Scott Dyck: UMGSA (U. Manitoba Graduate Student) Travel Award to attend the 2015 Canadian Spinal Cord Injury Meeting in Banff, \$500, 2015
- 150. Arsalan Alizadeh: MICH Travel Award to attend the Society for Neuroscience annual meeting in Washington, DC, \$1250, 2014
- 151. Scott Dyck: FGS travel award to attend the Society for Neuroscience annual meeting, Washington, DC, \$750, 2014

- 152. Arsalan Alizadeh: FGS travel award to attend the Society for Neuroscience annual meeting in Washington, DC, \$1250, 2014
- 153. Scott Dyck: Canadian Association of Neuroscience Travel Award to attend the 8th annual meeting of CAN in Montreal, \$500, 2014
- 154. Scott Dyck: UMGS (U. Manitoba Graduate Student) Travel Award to attend the 8th Canadian Association for Neuroscience in Montreal, \$500, 2014
- 155. Arsalan Alizadeh: UMGS (U. Manitoba Graduate Student) Travel Award to attend the 8th Canadian Association for Neuroscience in Montreal, \$500, 2014
- 156. Arsalan Alizadeh: FGS travel award to attend the 8th Canadian Association for Neuroscience in Montreal, \$750, 2014
- 157. Scott Dyck: CHRIM Travel Award to attend the Society for Neuroscience annual meeting in San Diego, CA, \$1000, 2013
- 158. Scott Dyck: FGS travel award to attend the Society for Neuroscience annual meeting in San Diego, CA, \$750, 2013
- 159. Scott Dyck: UMGS (U. Manitoba Graduate Student) Travel Award to attend the Society for Neuroscience annual meeting in San Diego, CA, \$500, 2013

PUBLICATIONS

Nearly 200 published articles and abstracts since 2002, h-index of 30, ~5,500 citations, citation per publication: 62.5 (institutional metric: 22.4), Field-Weighted Citation Impact: 3.34 (institutional metric: 1.58), Patent-Citations per Scholarly Output: 121.2 (Institutional metric: 79.3)

Peer-reviewed articles: My trainees are identified by an "*"

- *Hosseini SM, *Alizadeh A, *Shahsavani N, Chopek J, Ahlfors JE, Karimi-Abdolrezaee S. Suppressing CSPG/LAR/PTPσ axis facilitates neuronal replacement and synaptogenesis by human neural precursor grafts and improves recovery after spinal cord injury. *Journal of Neuroscience.* 2022 Apr 13;42(15):3096-3121. doi: 10.1523/JNEUROSCI.2177-21.2022. IF: 6.2_Senior and corresponding author. Work was featured on the journal cover.
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- 3. *Ziaee SM, **Karimi-Abdolrezaee S.** Emerging Role of Neuregulin-1beta1 in Pathogenesis and Progression of Multiple Sclerosis. *Neural Regeneration Research.* 2022. 18(1):133-134. IF: 6.06_Senior and corresponding author
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- 5. **Soheila Karimi-Abdolrezaee.** 2022 Why Does Remyelination Fail in Progressive Multiple Sclerosis? Neurodiem.ca. Expert Point of View Link to the article
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- 7. *Hart CG and **Karimi-Abdolrezaee S.** Recent insights on astrocytes mechanisms in CNS homeostasis, pathology and repair. *The Journal of Neuroscience Research.* 2021. July 14, DOI: 10.1002/jnr.24922. IF: 4.7, *Senior and corresponding author*
- 8. *Shahsavani N, *Alizadeh A, *Kataria H, **Karimi-Abdolrezaee S.** Neuregulin-1beta1 protects neurons in spinal cord injury and against glutamate toxicity through caspase dependent and independent mechanisms. *Experimental Neurology.* 2021, 2021 Nov;345:113817. IF: 5.62. Senior and corresponding author
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- *Hart CG and Karimi-Abdolrezaee S. Bone morphogenetic proteins: New insights into their roles and mechanisms in CNS development, pathology and repair. *Experimental Neurology, 2020,* Aug 30;334:113455. IF: 5.62. Senior and corresponding author
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Book Chapter

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Intellectual Property

PCT Application PCT/CA2021/051229 (filed) - Use of Nrg-1β1 for Detection and/or Treatment of Multiple Sclerosis

CONFERENCE PUBLICATIONS

Conference publication since 2010 are listed (Career total: >150):

Conference Podium Presentations

- *Seyed Mojtaba Hosseini, *Arsalan Alizadeh, *Narjes Shahsavani, Jeremy Chopek, Jan-Eric Ahlfors, **Soheila Karimi-Abdolrezaee**. Suppressing CSPG/LAR/PTPσ axis facilitates neuronal replacement and synaptogenesis by human neural precursor grafts and improves recovery after spinal cord injury. *International Neurotrauma Symposium. Berlin, July 2022.*
- 2. *Eftekhar Eftekharpour, *Arsalan Alizadeh, Pandian Nagakannan, Md Imamul Islam, *Christopher Hart, **Soheila Karimi-Abdolrezaee**. Targeting excessive Iysosomal activity for prevention of cell death and enhanced tissue preservation after spinal cord injury. *International Neurotrauma Symposium. Berlin, July 2022.*
- *Seyed Mojtaba Hosseini, *Arsalan Alizadeh, *Narjes Shahsavani, Jeremy Chopek, Jan-Eric Ahlfors, Soheila Karimi-Abdolrezaee. Suppressing CSPG/LAR/PTPσ axis facilitates generation of functionally integrated neurons by human caudalized neural precursor grafts via Wnt/β-catenin activation in spinal cord injury. <u>Selected as top abstracts for oral presentation in a plenary session</u> at the 2021 Till & McCulloch Meetings. Stem Cell Network Virtual Meeting (Ottawa), Nov 2021

- 4. *Hardeep Kataria, *Seyyed Mohyeddin Ziaee, *Seyed Mojtaba Hosseini, *Graham McLeod, *Khashayar Akbari-Kelachayeh, **Soheila Karimi-Abdolrezaee**. Neuregulin-1 facilitates remyelination by promoting the reparative properties of macrophages and microglia in animal models of multiple sclerosis. *Oral presentation at the ECTRIMS 2021, October 2021.*
- *Seyed Mojtaba Hosseini, *Arsalan Alizadeh, *Narjes Shahsavani, Jeremy Chopek, Jan-Eric Ahlfors, Soheila Karimi-Abdolrezaee. Inhibition of CSPGs receptors promotes replacement of spinal specific neurons by human directly reprogrammed neural precursor cells and improves functional recovery after spinal cord injury. National Neurotrauma Society. July 2021
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- *Dyck SM, *Alizadeh A, *Santhosh TK, *Proulx E and Karimi-Abdolrezaee S (2014). Chondroitin sulfate proteoglycans negatively modulate the properties of adult spinal cord neural precursor cells by signaling through LAR and PTPσ receptors and activation of the Rho/ROCK pathway, *the Society for Neuroscience annual meeting*, Washington DC, Nov. *Note: This work was highlighted as one of the Hot Topics in Neuroscience 2013, selected among over 20,000 abstracts submitted to the SFN*
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Conference Poster Presentations

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- 15. Astrid Bravo-Jiménez, Seyed Mojtaba Hosseini, Hardeep Kataria and **Soheila Karimi-Abdolrezaee.** Involvement of mTOR and the unfolded protein response in oligodendrocyte maturation in chronic demyelinating lesions. 2023. Canadian Association for Neuroscience. Montreal, Canada.
- 16. *Shiva Nemati, *Astrid Bravo Jiménez, **Soheila Karimi-Abdolrezaee.** Neuregulin-1 Ameliorates Cognitive Decline in Chronic Cuprizone Mice By Attenuating Neurodegeneration And Augmenting Hippocampal Neurogenesis. *The American Committee for Treatment and Research in Multiple Sclerosis.* ACTRIMS 2023. San Diego, USA
- 17. *Seyyed Mohyeddin Ziaee, *Hardeep Kataria, **Soheila Karimi-Abdolrezaee**. Neuregulin-1 Promotes Remyelination in Mice with Progressive MS by Harnessing the Reparative Capacity of Microglia. *The American Committee for Treatment and Research in Multiple Sclerosis.* ACTRIMS 2023. San Diego, USA.
- 18. *Hardeep Kataria, *Seyyed Mohyeddin Ziaee, *Seyed Mojtaba Hosseini, *Graham McLeod, *Khashayar Akbari-Kelachayeh, **Soheila Karimi-Abdolrezaee.** Neuregulin-1 augments remyelination by enhancing microglial cholesterol efflux in chronic demyelinating lesions. *The European Committee for Treatment and Research in Multiple Sclerosis. ECTRIMS 2022.*
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- 20. *Astrid Bravo-Jiménez, *Hardeep Kataria and **Soheila Karimi-Abdolrezaee.** mTOR and the unfolded protein response conversely regulate oligodendrocyte maturation in vitro and are active in chronic demyelinating lesions of cuprizone. *The European Committee for Treatment and Research in Multiple Sclerosis. ECTRIMS* 2022.
- 21. *Shiva Nemati, *Astrid Bravo Jiménez, **Soheila Karimi-Abdolrezaee.** Neuregulin-1 treatment facilitates neurogenesis and cognitive recovery in chronic cuprizone mouse model of multiple sclerosis. *The European Committee for Treatment and Research in Multiple Sclerosis. ECTRIMS* 2022.
- 22. Tetiana Shcholok, Md Imamul Islam, *Shiva Nemati, Peter Vitiello, **Soheila Karimi-Abdolrezaee**, Eftekhar Eftekharpour. Developmental Depletion of

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- 26. Parisa Tabeshmehr, Pandian Nagakannan, Md Imamul Islam, *Arsalan Alizadeh, *Christopher Hart, **Soheila Karimi-Abdolrezaee**, Eftekhar Eftekharpour. Targeting excessive lysosomal activity for prevention of cell death and enhanced tissue preservation after spinal cord injury. *2022. Canadian Spinal Cord Injury Research Meeting.* Winnipeg, Manitoba.
- *Seyed Mojtaba Hosseini, *Arsalan Alizadeh, *Narjes Shahsavani, Jeremy Chopek, Jan-Eric Ahlfors, Soheila Karimi-Abdolrezaee. Targeting CSPG/LAR/PTPσ axis enhances neuronal replacement and synaptogenesis by engrafted human neural precursor cells and improves functional recovery after spinal cord injury. 2022. Canadian Spinal Cord Injury Research Meeting. Winnipeg, Manitoba.
- Tetiana Shcholok, Md Imamul Islam, *Shiva Nemati, Soheila Karimi-Abdolrezaee, Eftekhar Eftekharpour. Oxidative stress in neurons results in demyelination and decreased neurogenesis in adult mice. 2022. Canadian Spinal Cord Injury Research Meeting. Winnipeg, Manitoba.
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- 32. *Shiva Nemati, *Astrid Bravo-Jiménez and **Soheila Karimi-Abdolrezaee**. Brain neurogenesis in response to demyelination and treatment strategies in multiple sclerosis. 2022 . Manitoba poster Competition, Winnipeg, MB.
- 33. *Seyed Mojtaba Hosseini, *Arsalan Alizadeh, *Narjes Shahsavani, Jeremy Chopek, Jan-Eric Ahlfors, **Soheila Karimi-Abdolrezaee**. Targeting LAR and PTPo signaling promotes neuronal replacement and synaptogenesis by human neural precursor grafts and improves recovery after spinal cord injury. *Manitoba poster Competition*, Winnipeg, MB.
- 34. *Narjes Shahsavani, *Arsalan Alizadeh, *Hardeep Kataria and **Soheila Karimi-Abdolrezaee.** Availability of neuregulin-1beta1 protects neurons in spinal cord injury and against glutamate toxicity through caspase dependent and independent mechanisms. *August 2021 The Canadian Association for Neuroscience, Virtual meeting.*
- 35. *Seyed Mojtaba Hosseini, *Arsalan Alizadeh, *Narjes Shahsavani, Jeremy Chopek, Jan-Eric Ahlfors, **Soheila Karimi-Abdolrezaee**. Suppressing CSPGs receptors enhances spinal specific neuronal replacement by human directly reprogrammed neural precursor cells and improves functional recovery after spinal cord injury. *August 2021 The Canadian Association for Neuroscience, Virtual meeting*.
- 36. *Narjes Shahsavani, *Arsalan Alizadeh, *Hardeep Kataria, **Soheila Karimi-Abdolrezaee.** Neuregulin-1beta1 fosters neuroprotection through caspase dependent and independent pathways after spinal cord injury. *National Neurotrauma Society. July 2021.*
- 37. *Seyed Mojtaba Hosseini, *Arsalan Alizadeh, *Narjes Shahsavani, Jeremy Chopek, Jan-Eric Ahlfors, **Soheila Karimi-Abdolrezaee**. Blocking CSPGs receptors enhances spinal neuronal replacement by transplanted human directly reprogrammed neural precursor cell and improves locomotor recovery after spinal cord injury. *2021 The Canadian Student Health Research Forum*, Winnipeg, MB.
- *Narjes Shahsavani, *Arsalan Alizadeh, *Hardeep Kataria and Soheila Karimi-Abdolrezaee. Availability of neuregulin-1beta1 protects neurons in spinal cord injury and against glutamate toxicity through caspase dependent and independent mechanisms. 2021 The Canadian Student Health Research Forum, Winnipeg, MB.
- 39. *Seyed Mojtaba Hosseini, *Arsalan Alizadeh, *Narjes Shahsavani, *Jeremy Chopek, Jan-Eric Ahlfors, **Soheila Karimi-Abdolrezaee**. Inhibition of CSPG receptors promotes replacement of spinal specific neurons by human directly reprogrammed neural precursor cell grafts and improves functional recovery after spinal cord injury. *National Neurotrauma Society. July 2021.*
- 40. *Kataria H, *Hart CG, *Alizadeh A, Cossoy M, Kaushik DK, Bernstein CN, Marrie RA, Yong VW, **Karimi-Abdolrezaee S (2020)**. Nrg-1b1 is implicated in pathogenesis of multiple sclerosis and its availability ameliorates experimental autoimmune encephalomyelitis. MS Connect Conference (virtual, Nov 2020).
- 41. *Seyed Mojtaba Hosseini and **Soheila Karimi-Abdolrezaee.** Response of astrocytes to injury is differentially regulated by their cellular origin and developmental stage. *The Canadian Association for Neuroscience Annual meeting*, Montreal, QC, 2020 Postponed to 2021

- 42. *Narjes Shahsavani, *Arsalan Alizadeh, *Hardeep Kataria and **Soheila Karimi-Abdolrezaee.** Neuregulin-1 fosters neuroprotection in traumatic spinal cord injury. *The Canadian Association for Neuroscience Annual meeting*, Montreal, QC, 2020 Postponed to 2021 due to COVID-19
- 43. Pandian Nagakannan, Md. Imamul Islam, *Arsalan Alizadeh, *Christopher G. Hart, **Soheila Karimi-Abdolrezaee**, and Eftekhar Eftekharpour (2019). Identification of Cathepsin B as a potential therapeutic target for treatment of Spinal Cord Injury. SFRBM Annual Meeting, Las Vegas, USA.
- *Hardeep Kataria, *Scott M Dyck, *Arsalan Alizadeh and Soheila Karimi-Abdolrezaee (2019). Modulation of CSPG signaling receptors, LAR and PTPσ promotes endogenous precursor cell response in traumatic spinal cord injury. Canadian Spinal Cord Injury Meeting, Vancouver, 2019.
- 45. *Christopher G. Hart, *Scott M. Dyck, *Hardeep Kataria, *Arsalan Alizadeh, Nagakannan Pandian, Kallivalappil T. Santhosh, Eftekhar Eftekharpour, **Soheila Karimi-Abdolrezaee** (2019). Bone morphogenetic protein-4 regulates secondary injury mechanisms in acute spinal cord injury. Canadian Spinal Cord Injury Meeting, Vancouver, BC, April 2019.
- 46. *Narjes Shahsavani, *Arsalan Alizadeh, *Hardeep Kataria and **Soheila Karimi-Abdolrezaee** (2019). Neuregulin-1 fosters immunomodulation and neuroprotection in traumatic spinal cord injury. Canadian Spinal Cord Injury Meeting, Vancouver, BC, April 2019.
- 47. Pandian Nagakannan, Md. Imamul Islam, *Arsalan Alizadeh, *Christopher G. Hart, **Soheila Karimi-Abdolrezaee**, and Eftekhar Eftekharpour (2019). Targeting lysosomal protease for the treatment of spinal cord injury. Canadian Spinal Cord Injury Meeting, Vancouver, BC, April 2019.
- 48. Narjes Shahsavani, Arsalan Alizadeh, Hardeep Kataria and **Soheila Karimi-Abdolrezaee** (2019). Neuregulin-1 provides neuroprotection in spinal cord injury. Manitoba Health Research Forum. Winnipeg, June 2019.
- 49. Pandian Nagakannan, Md. Imamul Islam, *Arsalan Alizadeh, *Christopher G. Hart, **Soheila Karimi-Abdolrezaee**, and Eftekhar Eftekharpour (2019). Identification and targeting a druggable lysosomal protease for the treatment of spinal cord injury. Canadian Student Health Research Forum, Winnipeg, MB (June 2019).
- 50. *Graham McLeod, *Hardeep Kataria, **Soheila Karimi-Abdolrezaee.** Development of new therapies for promoting myelin repair in multiple sclerosis. *National Medical Student Research Forum*. University of Texas, Galveston, USA (April 2019)
- 51. *Hardeep Kataria, *Scott Dyck, Jerry Silver, Soheila Karimi-Abdolrezaee (2018). Modulation of LAR and PTP-σ signaling promotes oligodendrocyte replacement and preservation following spinal cord injury. *International Neurotrauma Symposium*, Toronto, August 2018
- 52. *Christopher G. *Hart, *Scott M. *Dyck, *Hardeep Kataria, *Arsalan Alizadeh, Nagakannan Pandian, Kallivalappil T. Santhosh, Eftekhar Eftekharpour, **Soheila** Karimi-Abdolrezaee Bone morphogenetic protein-4: A regulator of endogenous precursor response and glial reactivity in acute spinal cord injury. *International Neurotrauma Symposium*, Toronto, August 2018.

- 53. *Arsalan Alizadeh, *Kallivalappil T. Santhosh, *Hardeep Kataria, **Soheila Karimi-Abdolrezaee** (2018). Neuregulin-1 positively modulated neuroinflammation and improves functional recovery following traumatic spinal cord injury. *International Neurotrauma Symposium*, Toronto, Aug 2018
- 54. *Arsalan Alizadeh, *Kallivalappil Santhosh, *Hardeep Kataria, Abdelilah S. Gounni , **Soheila Karimi-Abdolrezaee** (2018). Neuregulin-1: a novel regulator of immune response in traumatic spinal cord injury. *Canadian Association for Neuroscience*, Vancouver, May 2018
- 55. *Ghazaleh M. *Shahriary, *Hardeep Kataria, *Arsalan Alizadeh, *Thomas K. Santhosh, and **Soheila Karimi-Abdolrezaee** (2018). Neuregulin-1 fosters a proregenerative response by microglia and regulatory T cells in demyelinating conditions. *Canadian Association for Neuroscience*, Vancouver, May 2018
- 56. *Hardeep Kataria, *Arsalan Alizadeh, *Ghazaleh M. Shahriary, *Shekoofeh Saboktakin Rizi, *Ryan Henrie, *Kallivalappil T. Santhosh, James A. Thliveris and Soheila Karimi-Abdolrezaee (2017) Neuregulin-1 Augments Remyelination and Modulates Inflammatory Response Following Lysolecithin-Induced Demyelination in Rat Spinal Cord. International Symposium on Neural Regeneration, Asilomar, CA, November
- 57. *Scott Dyck, *Hardeep Kataria, *Arsalan Alizadeh, *Santhosh Thomas, Bradley Lang, Jerry Silver and **Soheila Karimi-Abdolrezaee** (2017) Modulation of LAR and PTPσ Fosters a Pro-Regenerative Immune Response that Promotes Oligodendrogenesis Following Spinal Cord Injury. International Symposium on Neural Regeneration, Asilomar, CA, November
- 58. *Christopher G. Hart, *Scott M. Dyck, *Hardeep Kataria, *Kallivalappil T. Santhosh, **Soheila Karimi-Abdolrezaee** (2017). Bone morphogenetic protein 4 regulates endogenous cell response and astrocyte reactivity following spinal cord injury. *International Symposium on Neural Regeneration*, Asilomar, CA, November
- 59. *Arsalan Alizadeh, *Scott M. Dyck, *Hardeep Kataria, *Dung Nguyen, *Kallivalappil Thomas Santhosh, **Soheila Karimi-Abdolrezaee** (2017) Neuregulin-1 positively modulates glial response and improves neurological recovery following traumatic spinal cord injury. *Canadian Students Health Research Forum*, Winnipeg, June 2017
- *Hardeep Kataria, *Arsalan Alizadeh, *Ghazaleh M. Shahriary, *Shekoofeh S. Rizi, *Ryan Henrie, *Kallivalappil T. Santhosh and Soheila Karimi-Abdolrezaee (2017). Neuregulin-1 promotes oligodendrocytes replacement and accelerates remyelination in focal demyelinating lesions of the rat spinal cord. *Canadian Students Health Research Forum*, Winnipeg, June 2017
- 61. *Ghazaleh M. Shahriary, *Hardeep Kataria, *Arsalan Alizadeh, *Kallivalappil T Santhosh and **Soheila Karimi-Abdolrezaee**. Neuregulin-1 positively regulates neuroinflammation in demyelinating conditions. *Canadian Students Health Research Forum*, Winnipeg, June 2017
- 62. *Scott Dyck, *Hardeep Kataria, *Kallivalappil T. Santhosh, Bradley Lang, Jerry Silver and **Soheila Karimi-Abdolrezaee** (2017). Inhibition of CSPGs Signaling Receptors Fosters a Pro-regenerative Endogenous Response in Traumatic Spinal Cord Injury. Canadian Students Health Research Forum, Winnipeg, June 2017.

- 63. *Ryan Henrie, *Arsalan Alizadeh, Hardeep Kataria, Kallivalappil T. Santhosh and **Soheila Karimi-Abdolrezaee.** Neuregulin-1 Promotes Myelin Repair Following Spinal Cord Injury. *National Medical Student Research Forum*. University of Texas, Galveston, USA (April 2017)
- *Dyck SM, *Kataria H, *Santhosh TK, Lang B, Silver J and Karimi-Abdolrezaee S (2016) Pharmacological Inhibition of CSPGs Receptors LAR and PTPσ Positively Modulates the Inflammatory Response which Promotes Oligodendrocyte Replacement following Spinal Cord Injury. *Society for Neuroscience Annual Meeting*, San Diego, US (November 2016)
- *Kataria H, *Alizadeh A, *Shahriary G. M., *Santhosh K. T., Karimi- Abdolrezaee S (2016). Neuregulin-1 promotes oligodendrocytes replacement and fosters a proregenerative inflammatory response in focal demyelinating lesions of the spinal cord. Society for Neuroscience Annual Meeting, San Diego, US (November)
- 66. *Hart C., *Dyck S. M., *Santhosh K. T., Miller D., Karimi-Abdolrezaee S (2016). Acute upregulation of bone morphogenetic protein 4 regulates endogenous cell response and glial reactivity following spinal cord injury. *Society for Neuroscience Meeting*, San Diego, US (November)
- 67. *Santhosh K., *Alizadeh A. **Karimi-Abdolrezaee S** (2016). Development and characterization of PLGA biodegradable nanocarriers for controlled and sustained delivery of Neuregulin-1 in spinal cord injury. *Society for Neuroscience Annual Meeting*, San Diego, US (November)
- *Hart C, *Dyck S, *Santhosh T, Laksitorini M, Miller M, Karimi-Abdolrezaee S (2016). Acute upregulation of bone morphogenetic protein 4 regulates endogenous cell response and glial reactivity following spinal cord injury. *Canadian Student Health Research Forum*, Winnipeg, MB, June.
- 69. *Alizadeh A, *Dyck SM, *Kataria H, *Nguyen DH, *Santhosh KT and **Karimi-Abdolrezaee S** (2016). Activation of Neuregulin-1/ErbB2 confers neuroprotection and improves neurological recovery following traumatic spinal cord injury. *Canadian Student Health Research Forum*, Winnipeg, MB, June.
- 70. *Kataria H, *Alizadeh A, **Karimi-Abdolrezaee S** (2016). Neuregulin-1 Promotes Oligodendrocyte Maturation and Myelination through ErbB4 Dependent Mechanisms. *Canadian Student Health Research Forum*, Winnipeg, MB, June.
- 71. *Dyck S, *Kataria H, *Santhosh KT and Karimi-Abdolrezaee S (2016). Pharmacological Inhibition of CSPGs Receptors LAR and PTPσ Positively Modulates the Inflammatory and Endogenous Stem Cell Response following Spinal Cord Injury. *Canadian Student Health Research Forum*, Winnipeg, MB, June.
- 72. *Hart C, *Dyck S, **Karimi-Abdolrezaee S** (2015). Activated astrocytes modulate survival and fate specifications of adult spinal cord neural precursor cells. *Society for Neuroscience*. Chicago, Oct.
- 73. *Alizadeh A, *Dyck SM, Nguyen DH, *Santhosh KT, *Proulx EH and Karimi-Abdolrezaee S (2015). Neuregulin-1, a new therapeutic approach to moderate glial scarring and neuroinflammation following spinal cord injury. *Annual Scientific meeting of Manitoba Neuroscience Network* Winnipeg, MB, June.

- 74. *Dyck SM, *Alizadeh A, *Santhosh TK, Lang B, Silver J and Karimi-Abdolrezaee S (2015) Inhibition of LAR and PTPσ receptors blocks CSPGs inhibitory effects on Spinal Cord Neural Precursor Cells. *Annual Scientific meeting of Manitoba Neuroscience Network* Winnipeg, June.
- 75. *Alizadeh A, *Dyck SM, *Nguyen DH, *Santhosh KT, *Proulx EH and **Karimi-Abdolrezaee S** (2015). Neuregulin-1, a new therapeutic approach to moderate glial scarring and neuroinflammation following spinal cord injury. *The Manitoba Health Research Forum*. Winnipeg, MB, June.
- 76. *Dyck SM, *Alizadeh A, *Santhosh TK, Lang B, Silver J and Karimi-Abdolrezaee S (2015) Inhibition of LAR and PTPσ receptors blocks CSPGs inhibitory effects on Spinal Cord Neural Precursor Cells. *The Manitoba Health Research Forum*. Winnipeg, Winnipeg, MB, June.
- 77. *Alizadeh A, *Dyck SM, *Nguyen DH, *Santhosh KT, *Proulx EH and **Karimi-Abdolrezaee S** (2015). Neuregulin-1, a new therapeutic approach to moderate glial scarring and neuroinflammation following spinal cord injury. *The Canadian Spinal Cord Injury Meeting*, Banff, AB, April.
- 78. *Dyck SM, *Alizadeh A, *Santhosh TK, Lang B, Silver J and Karimi-Abdolrezaee S (2015) Inhibition of LAR and PTPσ receptors blocks CSPGs inhibitory effects on Spinal Cord Neural Precursor Cells. *The Canadian Spinal Cord Injury Meeting*, Banff, AB, April.
- *Alizadeh A, *Dyck SM, *Nguyen DH, *Santhosh KT, *Proulx EH and Karimi-Abdolrezaee S (2014). Neuregulin-1 Attenuates Astrogliosis and Glial Scar Formation after Spinal Cord Injury. *Children's Hospital Research Institute of Manitoba Research Day*, Winnipeg, MB.
- *Alizadeh A, *Dyck SM, *Nguyen D, *Santhosh KT, *Proulx EH and Karimi-Abdolrezaee S. Neuregulin-1 Attenuates Astrogliosis and Glial Scar Formation after Spinal Cord Injury. *Manitoba Student Health Research Day*. 2014, Winnipeg.
- *Dyck SM, *Alizadeh A, *Proulx E and Karimi-Abdolrezaee S (2014). Chondroitin Sulfate Proteoglycans Modulate the Survival and Differentiation of Spinal Cord Stem/Progenitor Cells. *Manitoba Student Health Research Day*. 2014, Winnipeg, MB.
- *Alizadeh A, *Dyck SM, *Nguyen DH, Santhosh KT, Proulx EH and Karimi-Abdolrezaee S (2014). Neuregulin-1 Attenuates Astrogliosis and Glial Scar Formation after Spinal Cord Injury. *Annual meeting of the Canadian Association of Neuroscience*. Montreal QC.
- 83. Dyck SM, Alizadeh A, Proulx E and Karimi-Abdolrezaee S (2014). Chondroitin Sulfate Proteoglycan negatively regulate the properties of Adult Spinal Cord Neural Precursor Cells through LAR and PTPσ receptors and activation of the Rho/ROCK pathway. The 8th Annual meeting of the Canadian Association of Neuroscience. 2014 Montreal QC.
- Alizadeh A, Dyck SM, Nguyen DH, Proulx EH and Karimi-Abdolrezaee S (2013). Activation of Neuregulin-1 Signaling Attenuates Astrogliosis and Glial Scar Formation after Spinal Cord Injury. *Manitoba Institute of Child Health Research Day*, Winnipeg MB.

- 85. Dyck SM, Alizadeh A, Proulx E and **Karimi-Abdolrezaee S** (2013). Role of chondroitin sulfate proteoglycans in cell fate determination and survival of spinal cord derived neural precursor cells. *Manitoba Neuroscience Network Research Day*, Winnipeg MB.
- 86. Dyck SM, Alizadeh A, Proulx E and **Karimi-Abdolrezaee S** (2013). Role of chondroitin sulfate proteoglycans in cell fate determination and survival of spinal cord derived neural precursor cells. *Manitoba Institute of Child Health Research Day*, Winnipeg MB.
- Gauthier MK, Kosciuczyk K, Tapley L and Karimi-Abdolrezaee S (2012). Dysregulation of Neuregulin-1/ErbB Network Modulates Endogenous Oligodendrocyte Differentiation and Preservation after Spinal Cord Injury. *Manitoba Institute of Child Health Research Day*. Winnipeg, MB.
- 88. Gauthier MK, Kosciuczyk K, Tapley L and **Karimi-Abdolrezaee S (2012).** Modulatory effects of Neuregulin-1 on neural stem cells after spinal cord injury. *Manitoba Neuroscience Network Research Day*. Winnipeg, MB
- 89. Gauthier MK, Kosciuczyk K, Tapley L and **Karimi-Abdolrezaee S** (2011). Neuregulin-1/Erb Signaling in spinal cord injury. *Manitoba Institute of Child Health Research Day*. Winnipeg.
- 90. **Karimi-Abdolrezaee S**, Schut D, Wang J and Fehlings MG (2010). Therapeutic strategies to stimulate proliferation and differentiation of spinal cord precursor cells after spinal cord injury. *Society for Neuroscience*, San Diego CA US.
- 91. Alluin O, **Karimi-Abdolrezaee S**, Delivet-Mongrain H, Menard M, Leblond H, Fehlings MG and Rossignol S (2010). Longitudinal study of locomotor recovery following chronic compressive spinal cord injury in rats. *Society for Neuroscience*, San Diego CA US.

PUBLISHED LITERARY AND ARTISTIC WORKS

- Cover of the Journal of Neuroscience (Hosseini et al. 2022)
- Cover of the Journal of Neuroscience (Karimi-Abdolrezaee et al. 2010)
- Cover of the Journal of Neuroscience Karimi-Abdolrezaee et al. 2006)
- Cover of the European Journal of Neuroscience (Karimi-Abdolrezaee et al. 2004)

INVITED PRESENTATIONS AND SCIENTIFIC LECTURES

- 1. Invited Speaker, the 2023 endMS Conference, MS Canada, Toronto (Dec 2023)
- 2. Invited Speaker: Neuroscience and Mental Health Institute (NMHI) Seminar, University of Alberta, Edmonton (April 2023)
- 3. Invited Speaker: Neuroimmunology Group, Queen's University, Kingston (Mar 2023)
- 4. Invited Speaker: Pharmacology Seminars, Dalhousie University, Halifax (March 2023)
- 5. Invited Speaker: Glia Club, University of Wisconsin-Madison, USA (January 2023)
- 6. Invited Speaker: MedTalks, MedLife Manitoba Winnipeg (Nov 2022)

- 7. Keynote Speaker: Women in Neuroscience Symposium, the International Brain Research Organization (IBRO) and the International Center for Neuroscience Research in Georgia and, Georgia (August 2022)
- 8. Keynote Speaker: University of Tehran Seminar Series, Tehran, Iran, (August 2022)
- 9. Plenary Speaker: International Neurotrauma symposium, Berlin, Germany (July 2022)
- 10. Invited Speaker: Abbvie Sponsored Symposium, Therapeutic Interventions for Spinal Cord Injury: from basic science to clinical applications, The International Neurotrauma symposium, Berlin, Germany (July 2022)
- 11. Invited Speaker: American Society for Neurochemistry, Roanoke, VA (April 2022)
- 12. Plenary Speaker: The 3rd Neuro-Health Awareness Conference, University of Ottawa Multiple Sclerosis Club, Ottawa (March 2022)
- 13. Invited Speaker: Manitoba Neuroscience Network Seminar Series (Jan 2022)
- 14. Plenary speaker: 13th BMP International Conference, Virtual Forum (July 2021)
- 15. Plenary Speaker: International Spinal Cord Injury Research Seminars, (June 2021)
- 16. Panelist: Café Scientific, Combating Multiple Sclerosis from Different Angels, Winnipeg (May 2021)
- 17. Plenary Speaker: Learning for Life Lecture, U Manitoba Alumni Relation (May 2021)
- 18. Panelist: Let's Talk Science, Girls in Science Roundtable, U Manitoba (May 2021)
- 19. Invited Speaker: Neuroscience Seminars, Univ. of Saskatchewan (April 2021)
- 20. Host and speaker: Ask the Expert Roundtable, Leadership of Women in Science and Technology, Women Executive Network, Dec 2020
- 21. Invited Speaker: endMS Summer School, Virtual presentation (August 2020)
- 22. Invited Speaker: American School of Neuroimmunology, Montreal (September 2019)
- 23. Invited Speaker: Alberta Multiple Sclerosis Network, Edmonton, AB (May 2019)
- 24. Speaker: Canadian Association for Neuroscience, Toronto, ON (May 2019)
- 25. Invited Speaker: Canadian Spinal Cord Injury Symposium, Vancouver (April 2019)
- 26. Visiting Speaker: Univ. of Copenhagen, Neuroscience Group, Denmark (Jan 2019)
- 27. Invited Speaker: College of Pharmacy, University of Manitoba, Winnipeg (Jan 2019)
- 28. Invited Speaker: International Neurotrauma Symposium, Toronto (Aug 2018)
- 29. Visiting Speaker: Multiple Sclerosis Seminar Series, the Hotchkiss Brain Institute in the Cumming School of Medicine, University of Calgary, Calgary, AB (June 2018)
- 30. Visiting Speaker: College of Medicine, University of Ottawa, Ottawa, ON (June 2018)
- 31. Keynote Lecture: Calgary StemCellTalks Symposium, Calgary, AB (May 2, 2018)
- 32. Keynote Lecture: Alberta Multiple Sclerosis Network, Calgary (May 3, 2018)
- 33. Invited Speaker: Endocrine and Metabolic Disorders Seminar Series, Department of Physiology and Pathophysiology, U Manitoba, Winnipeg, MB (April 2018)
- 34. Invited speaker: Manitoba Neuroscience Network Seminar Winnipeg, (March 2018)
- 35. Invited Speaker: Biomedical Engineering Seminar, U Manitoba, Winnipeg (Jan 2018)
- 36. Invited speaker: Krembil Research Institute and University of Toronto (June 2017)
- 37. Invited speaker: UBC, Center for Comparative Medicine, Vancouver (June 2017)

- 38. Invited speaker: Canadian Association of Neuroscience Nurses, Winnipeg (May 2017)
- Public Lecture: Multiple Sclerosis Society of Canada, MS Connect Research Session, Presentation to MS patients and their Caregivers, Portage la Prairie, MB (Nov 9, 2017)
- 40. Public Lecture: Multiple Sclerosis Society of Canada, MS Connect Research Event, Presentation of advances in MS research MS, Winnipeg, MB (May 23, 2017)
- 41. Invited speaker: The Canadian Spinal Cord Injury Symposium, Toronto (May 2017)
- 42. Invited speaker: American Physiological Society Cell and Molecular Physiology Symposium, Chicago, IL (April 2017)
- 43. Presenter: Regenerative Medicine Program, Winnipeg, MB (Jan 2017)
- 44. Visiting speaker: International Collaboration on Repair Discoveries (ICORD), Vancouver, BC (May 2016)
- 45. Invited speaker: Manitoba Neuroscience Network Seminar, Winnipeg, MB (Jan 2016)
- 46. Invited speaker: The Physiology Society, Cardiff, Wales, United Kingdom (July 2015)
- 47. Invited speaker: Canadian Spinal Cord Injury Symposium, Banff, Canada (April 2015)
- 48. Invited speaker: St. Boniface Research Centre, Winnipeg, Manitoba (April 2015)
- 49. Visiting speaker: Shiraz University of Medical Sciences, School of Advanced Medical Sciences and Technology, Shiraz, Iran (Jan 2015)
- 50. Visiting speaker: Birjand University of Medical Sciences, Faculty of Medicine, Birjand, Iran (Dec 2014)
- 51. Presenter: Regenerative Medicine Program Retreat, Winnipeg, MB (July 2014)
- 52. Invited speaker: Manitoba Neuroscience Network Seminar, Winnipeg, MB (Jan 2014)
- 53. Invited speaker: Will to Win Symposium on the Spinal Cord, Winnipeg, MB (May 2013)
- 54. Presenter: Spinal Cord Research Centre Seminar, Winnipeg, MB (April 2013)
- 55. Presenter: Society for Neuroscience, New Orleans, USA (Oct 2012)
- 56. Invited speaker: American Association of Anatomists, Excellence in Canadian Research, San Diego, USA (April 2012)
- 57. Invited speaker: Manitoba Neuroscience Network Seminars, Winnipeg (April 2012)
- 58. Invited speaker: Biochemistry and Medical Genetics Seminar, Winnipeg (April 2012)
- 59. Invited Public lecture: CIHR Café Scientific, Panelist, Renewing Hope for Spinal Cord Injury, Winnipeg (Feb 2012)
- 60. Visiting Speaker: Anatomy & Cell Biology, Univ. of Saskatchewan, Canada (Nov 2011)
- 61. Invited speaker: Immunology Visiting Speaker Series, Winnipeg, MB (2011)
- 62. Invited speaker: Manitoba Institute of Cell Biology, Winnipeg, MB (2011)
- 63. Invited speaker: Christopher Reeve Foundation, Phoenix, AZ, USA (Dec 2010)
- 64. Invited speaker: CIHR New Investigator Symposium, Toronto, ON (Nov 2010)
- 65. Invited speaker: Manitoba Neuroscience Network Meeting, Winnipeg, MB (June 2010)

- 66. Presenter: Spinal Cord Research Center Seminar Series, Winnipeg, MB (April 2010)
- 67. Invited speaker: Tator Turnbull Lectureship, Toronto, ON (Nov 2009)
- 68. Invited speaker: Inaugural SpineFEST Conference, University of Toronto (June 2009)
- 69. Invited speaker: AOSpine North America Forum, Banff, AB (April 2009)
- 70. Faculty Candidate: University of Manitoba, Winnipeg, MB (Feb 2009)
- 71. Visiting speaker: Shiraz University, Plenary Speaker Shiraz, Iran (Jan 2009)
- 72. Invited speaker: NASS Annual Meeting, Toronto, ON (Oct 2008)
- 73. Speaker: Canadian Association for Neuroscience Meeting, Montreal (May 2008)
- 74. Invited speaker: Third National Spinal Cord Injury Symposium, Toronto (Oct 2007)
- 75. Faculty Candidate: Department of Surgery, University of Toronto (April 2007)
- 76. Invited speaker: AOSpine North America Forum, Banff, AB, Canada (April 2007)
- 77. Invited speaker: Research Rounds, Dept. of Surgery, Univ. of Toronto (April 2007)
- 78. Presenter: Society for Neuroscience, Washington, USA (Nov 2007)
- 79. Invited speaker: World Spine IV Conference, Istanbul, Turkey (July 2007)
- 80. Presenter: National Neurotrauma Symposium, St. Louise, USA (August 2007)
- 81. Presenter: International Neurotrauma Symposium, Netherlands (May 2006)
- 82. Invited speaker: Canadian Spinal Cord Injury Conference, Banff, Alberta (April 2006)
- 83. Invited Presenter: American Association of Neurological Surgeons, San Francisco (April 2006)
- 84. Presenter: Cervical Spine Research Society, San Diego, USA (Dec 2005)
- 85. Presenter: Society for Neuroscience, Washington, USA (Nov 2005)
- 86. Invited Presenter: University Health Network Research Day, Toronto, ON (Oct 2005)
- 87. Invited speaker: Neuroscience rounds, Toronto Western Hospital, Toronto, ON (2004)
- 88. Presenter: International Neurotrauma Symposium, Australia (September 2004)

OUTREACH ACTIVITIES

Public lecture: Panelist: University of Manitoba Café Scientific, Combating Multiple Sclerosis from Different Angels, Winnipeg (May 2021)

CAN's Hill advocacy: Representing Canadian Association for Neuroscience on advocacy for basic science funding in Canada: Met with Manitoba Members of Parliament, and member of Health Standing Committee, Virtual, November 4, 2020

Presenter: Donor Engagement Event, Multiple Sclerosis Society of Canada, Manitoba Division, Winnipeg, MB (October 2019)

Keynote Lecture: StemCellTalks Symposium, Let's Talk Science University of Calgary, AB (2018)

Public Lecture: Alberta MS Network Event, Keynote lecture to Alberta Multiple Sclerosis Community, Calgary (May 3, 2018)

Public Lecture: Multiple Sclerosis Society of Canada, MS Connect Research Session, Presentation to MS patients and their Caregivers, Portage la Prairie, MB (Nov 9, 2017)

Public Presentation: Canadian Association of Neuroscience Nurses, Winnipeg (May 2017)

Public Lecture: Multiple Sclerosis Society of Canada, MS Connect Research Event, Presentation of advances in MS research MS, Winnipeg, MB (May 23, 2017)

Judge, Brain Awareness Week, Winnipeg Brain Bee 2016, the Winnipeg Chapter of the Society for Neuroscience, (2016-present).

Member, Manitoba Neuroscience Network, Development of Program webpage, Winnipeg, MB (2014)

Member, Speaker Forum, Manitoba Neuroscience Network, Winnipeg, MB (2014-present)

Public lecture: CIHR Café Scientific, Panelist, Renewing Hope for Spinal Cord Injury, Winnipeg (Feb 2012)

LAB VISITS AND WORK HIGHLIGHTED BY PRESS/ MEDIA/ SOCIETIES

- 2023 03 BEaTS Research Radio Interview, University of Ottawa Heart Institute. BEaTS is a platform that aims to disseminate science and bring science policy closer to the community. In its 3-year communication initiative, it has interviewed 110+ leaders around the globe from over 25 different institutions.
- 2022 05 Interview by CJOB radio station about my research on spinal cord injuries
- 2022- 04 Research from my laboratory was featured by UM Today: UM researchers develop new stem cell therapy for treating spinal cord injuries <u>UM Today</u> <u>News</u>
- 2021-10 Interview by local radio station CJNU to highlight our multiple sclerosis research as part of the annual Bannatyne Legacy Circle Celebration CJUN
- 2021-01 Research from my laboratory was featured by MS Society of Canada in MS Research News: Neuregulin-1 beta 1: A potential early disease marker and targeted treatment for Multiple Sclerosis <u>MS Research News</u>
- 2020-12 I was Featured in Financial Post among Canada's Most Powerful Women in 2020, Category of Science and Technology <u>Financial Post</u>
- 2020-12 Research from my laboratory was featured by CBC: U of M researchers study possible MS treatment <u>CBC</u>
- 2020-12 Research from my laboratory was featured by CTV News: Ground-breaking MS Research in Manitoba <u>CTV News</u>
- 2020-12 Research from my laboratory was featured by Winnipeg Free Press: U of M study sets new target for potential MS treatment <u>Winnipeg Free Press</u>
- 2020-12 Research from my laboratory was featured by UM Today: UM study discovers new targets for MS treatment and potential early disease marker, media release by U of M promoting our new findings related to MS research in my laboratory that is published in the prestigious neurology journal, Brain. UM Press Release

- 2020-11 Appeared in endMS "Spotlight for the Future"
- 2018-12 Visit of my lab by Manitoba Minister of Health, Honorable Cameron Friesen, U of M President and Dean of Rady Faculty of Health Science. <u>https://twitter.com/UM_RadyFHS/status/1072288681795510273</u>
- 2018-06 Interview with CBC Radio-Canada on my multiple sclerosis research; Multiple sclerosis: hopes lie in a research lead in Manitoba. Link: <u>Sclérose en plaques : des travaux porteurs d'espoi</u>r
- 2018-05 U of M researchers battle MS from new angle; Multiple sclerosis research conducted in my program was featured in the Winnipeg Free Press during Multiple Sclerosis Awareness month. <u>Winnipeg Free Press</u>
- 2018-01 Visit of my lab by Dr. Doug Eyolfson, Member of Parliament, and U of M administration during the CIHR funding announcement in January 2018.
- 2017-10 Visit of my lab by Dr. Roseann O'Reilly Runte, President and CEO of the Canadian Foundation for Innovation
- 2017-11 Work from my laboratory on spinal cord injury therapeutics was featured on RadioCanada, ICI Manitoba. We have identified the potential treatment for promoting repair and functional recovery following traumatic spinal cord injury. <u>RadioCanada</u>
- 2014-12 Unprecedented': Drug May Help Heal Damaged Spine, Maggie Fox, NBC News, *Collaboration with Dr. Silver at Case Western Univ. published in Nature, Dec 2014* <u>NBC News</u>
- 2014-12 Barrier-breaking drug may lead to spinal cord injury treatments, National Institutes of Health, *Collaboration with Dr. Silver at Case Western Univ. published in Nature*, <u>NIH</u>
- 2014-12 Drug can repair spinal cord injuries, study shows, James Gallagher, BBC News-Health. *Collaboration with Dr. Silver at Case Western Univ, Dec 2014* <u>BBC News</u>
- 2014-12 Compound shows 'extraordinary' promise in restoring muscle function after spinal cord injury, *Collaboration of my lab with Dr. Silvers lab at Case Western Univ. published in Nature* Fox News
- 2014-11 Neuregulin-1 Therapy Moderates Reactive Astrogliosis and Scar Formation Following Spinal Cord Injury, Hot Topics in Neurosciences, the Society for Neuroscience, 2014, Washington, USA. *Work from my lab was highlighted as one of the Hot Topics in Neuroscience 2014, selected among over* 20,000 abstracts submitted to the SFN
- 2014 My Program was highlighted in MHRC (Research Manitoba) annual report (Making an Impact, Page 14)
- 2013-11 Chondroitin Sulfate Proteoglycans Modulate the Survival and Differentiation of Spinal Cord Stem/Progenitor Cells, Hot Topics in Neuroscience 2013-Spinal Cord Injury, the Society for Neuroscience, San Diego, USA. *Work from my lab was highlighted as one of the Hot Topics in Neuroscience 2013, selected among over 20,000 abstracts submitted to the SFN*

- 2012-05 CELL POWER: The University of Manitoba is poised to become a leader in regenerative medicine, WINNIPEG'S HEALTH AND WELLNESS MAGAZINE May/June 2012, WAVE Magazine
- 2009-09 My work was highlighted in Progress in Research, Christopher and Dana Reeve Foundation. A combinatorial strategy to optimize neural repair and plasticity after chronic spinal cord injury. <u>http://s3.amazonaws.com/reeveassets-production/Progress-in-Research_2009_Fall.PDF</u>
- 2006-04 Neural Stem Cell Transplantation Holds Promise for Thousands of People Living with Spinal Cord Injury by Restoring Myelin Function, *My postdoctoral work was highlighted American Association of Neurological Surgeons, I was awarded 2006 Synthes Award for this work.*
- 2006-03 Stem Cell Treatment Succeeds In Spinal Cord-injured Rats, <u>Science Daily</u> <u>http://www.sciencedaily.com/releases/2006/03/060328224824.htm.</u> My neural stem cell work was broadcasted worldwide after its publication in the Journal of Neuroscience
- 2006-03 Stem Cells Aid Recovery after Spinal Cord Injury to Rats, <u>MedPage Today</u> <u>http://www.medpagetoday.com/PublicHealthPolicy/StemCellResearch/2949</u>. *My neural stem cell work was broadcasted worldwide after its publication in the Journal of Neuroscience*

CONFERENCE/SEMINAR ORGANIZATION AND CHAIRING

2023-2024	Organizer: the 14 th endMS National Summer School, Winnipeg, MB
2021-2022	Organizer: the 8 th Canadian Spinal Cord Injury Meeting, Winnipeg, MB
2022	Chair, International Neurotrauma Symposium, Regeneration and Spinal
	Cord Injury Session, Berlin, Germany
2022	Co-Chair: Symposium, American Society for Neurochemistry, Roanoke, VA
2021	Chair, Gairdner Symposium, Session with Gairdner Laureate Elaine Fuchs ("Tissue Stem Cells: Survival of The Fittest").
2019	Chair, Symposium on Neural Stem Cells in Development and Repair, Canadian Association for Neuroscience (CAN), Toronto, Canada
2018-2019	Program Committee: America School of Neuroimmunology, Montreal
2019	Chair: Symposium on External Insults to the Nervous System of
	European ERA-NET NEURON (Bonn, Germany)
2016-2018	Organizing and Program Committee: The 2018 International Neurotrauma Symposium, Toronto, ON Canada
2018	Scientific Program and Proposal Selection Committees, the National and International Neurotrauma Meeting
2017	Chair, Gairdner Symposium, Session with Gairdner Laureate Antoine Hakim (""The Canadian Stroke Network), University of Manitoba
2014-2018	Organizer: Spinal Cord Research Center Seminar Series, Univ of Manitoba
2015	Organizer and Chair of the 5 th Manitoba Neuroscience Meeting, Winnipeg,
2008-2009	Spine Fest Program Committee, University of Toronto, Toronto

EDITORIAL ACTIVITIES

JOURNAL EDITORIAL BOARD

2023-present	Editorial Board, Journal of Neurotrauma		
2023-2024	Co-Editor, Special Research Topic: Neuroplasticity in Multiple		
	Sclerosis, Frontiers in Neurology		
2018- Present	Associate Editor of Frontiers in Neurology (Neurotrauma Section)		
2017- 2022	Associate Editor of BMC Neuroscience		

MANUSCRIPT PEER-REVIEW

I have served as an Ad-hoc reviewer for the following peer-reviewed scientific journals List represents the journals that I accepted their invitation for peer-review (> 50 journals)

Nature Communications, Acta Neuropathologica, Stem Cells, Journal of Neuroscience, Glia, FASEB J, Journal of Neurotrauma, Matrix Biology, Molecular Therapy, Brain and Behaviour, Journal of Neuroinflammation, Scientific Reports, Experimental Neurology, Neurobiology of Disease, PlosOne, Endocrinology, Journal of Neurochemistry, Acta Biomaterilia, Molecular Neurobiology, Frontiers in Molecular Neuroscience, Frontiers in Neurology, Stem Cell Research and Therapy, Stem Cells Translational Medicine, Cell Transplantation, Neuroscience, BMC Neuroscience, International Journal of Nanomedicine, Canadian Journal of Neurological Sciences, Experimental Biology and Medicine, Brain Research, Neurochemistry International, Behavioural Brain Research.....

SERVICE TO UNIVERSITY AND BROADER COMMUNITY

NATIONAL AND INTERNATIONAL LEADERSHIP AND ADVISORY COMMITTEES

- 1. Secretary, The International Neurotrauma Society (2021-present)
- 2. Scientific Program Committee, Canadian Association for Neuroscience (2021-2024)
- 3. Scientific Advisory Board, International Neurotrauma Society (2019-present)
- 4. Executive Committee, International Women in Multiple Sclerosis (2018-present)
- 5. Governance Chair of International Women in Multiple Sclerosis (2018-present)
- 6. Board of Directors of the Canadian Association for Neuroscience (2018-2021)
- 7. Member, Advisory Board, Sam Schmidt Paralysis Foundation, the development of "Conquer Paralysis Now Challenge", USA (2012-2013)
- 8. Member, International Expert Group on Cellular Therapies in Spinal Cord Injury, Organized by the Rick Hansen Institute, British Columbia (2012-2013)
- 9. Executive Committee, Spine Program, University of Toronto, Canada (2008-2009)

SERVICE IN NATIONAL AND INTERNATIONAL COMMITTEES

10. Panel Member: The Multiple Sclerosis Society of Canada, Biomedical Discovery Grants Review Committee (2019-present)

- 11. External Review Committee: UBC International Collaboration on Repair Discoveries (ICORD) External Review (2022-2023)
- 12. Member: New York State Department of Health and the Spinal Cord Injury Research Program, Panel of Cellular Regeneration and Therapeutics, (2015present, USA)
- 13. Panel Member, New York State Department of Health and the Spinal Cord Injury Research Board, Panel of Individual Pre-doctoral and Post-doctoral Fellowships in Spinal Cord Injury Research (2015-present, USA)
- 14. Abstract reviewer, Americas Committee for Treatment and Research in Multiple Sclerosis (ACTRIMS), 2022-present
- 15. Panel Member, Brain Canada, Platform Support Program Review Committee (2022)
- 16. Panel Member: The Multiple Sclerosis Society of Canada, Biomedical Operating Grants Review Committee (2022)
- 17. External Examiner: Academic Tenure and Promotion, University of Alberta (2022)
- 18. Member, the endMS National Training Program Committee (2019-present)
- 19. Member: Peer-Review Committee, System and Clinical Neuroscience Committee (NSA), the Canadian Institutes of Health Research (CIHR) (2020, 2021)
- 20. Member: Peer-Review Committee, Cellular and Molecular Neuroscience Committee (NSB), the Canadian Institutes of Health Research (CIHR) (2018-present)
- 21. Member, Michael Smith Foundation for Health Research Review Panel, Vancouver, BC, Canada (2016-present)
- 22. External Examiner: The Marsden Fund Council, Royal Society Te Apārangi, New Zealand (2021)
- 23. External Examiner: Academic Promotion, Queen's University (2020)
- 24. Member: Ontario Research Funds (ORF)- Research Excellence Committee, Ministry of Economic Development, Job Creation and Trade, Toronto, ON, (2019)
- 25. Member: Brain Star Review Committee, CIHR/Canadian Association for Neuroscience (2020-present)
- 26. External Examiner: Academic Promotion, Faculty of Medicine, University of Ottawa (2019)
- 27. Member: The Canada Foundation for Innovation (CFI) Committee, the John R. Evans Leaders Fund (2019, Canada)
- 28. Member: endMS Summer School Review Committee, the Multiple Sclerosis Society of Canada (2019-2021)
- 29. Evaluator: Network of European Funding for Neuroscience Research Interim evaluation of the funded consortia of the 2016 Call 'External Insults to the Nervous System of European ERA-NET NEURON (2019, Bonn, Germany)
- 30. Panel Member: The Multiple Sclerosis Society of Canada, Biomedical Operating Grants Review Committee, (2019, Toronto)
- 31. External Reviewer: Medical Research Council (MRC), Operating grant, UK (2018)
- 32. External Reviewer: Missouri Spinal Cord Injury Research Program, USA (2018)
- 33. Panel Member: Biomedical Grant Review Panel, College of Medicine, University of Saskatchewan, Canada (2018).
- 34. College of Reviewers, the Canadian Institutes of Health Research (2017-2022)
- 35. Panel Member: Ontario Institute of Regenerative Medicine (OIRM), New Ideas Grants (2017-2018)
- 36. Member: Program Committee, National Neurotrauma Society, USA (2017-2018)

- 37. Judge: International Symposium on Neural Regeneration, Posters, USA (2017)
- 38. Expert opinion: I was consulted by Science Magazine to provide expert opinion on neural stem cell therapies for spinal cord injury (2017)
- 39. Panel Member, Review board of operating grants, Network of European Funding for Neuroscience Research, European Research Projects on External Insults to the Nervous System, Germany/Spain (2016, 2019)
- 40. Reviewer, the Craig H. Neilsen Foundation, Spinal Cord Injury Projects, USA (2016)
- 41. Reviewer, the Czech Science Foundation, Czech Republic (2016)
- 42. Reviewer, CPN Challenge Stage I, Spinal Cord Injury Panel, USA (2015-2016)
- 43. Reviewer, Wings for Life Spinal Cord Research Foundation, Austria (2007-present)
- 44. Reviewer, PSI Foundation, Ontario (2015-2016)
- 45. Reviewer, Canada Research Chair (CRC) Program, Canada (2014)
- 46. Reviewer, Medical Research Council (MRC), United Kingdom (2014)
- 47. Reviewer, Natural and Engineering Research Council of Canada (NSERC) (2014present)
- 48. Panel Member, Saskatchewan Health Research Foundation (SHRF), Spinal Cord Injury Projects, Saskatoon (2011-2015)
- 49. Reviewer: Heart and Stroke Foundation of Canada (HSF), Canada (2012)
- 50. Reviewer, the Catalan Agency for Health Information, Spain (2015)
- 51. Reviewer, Kentucky Science and Engineering Foundation, USA (2011)
- 52. Reviewer, the AO Spinal Cord Foundation, Switzerland (2010-2014)
- 53. Panel Member: New York State Stem Cell Science Review (NYSTEM), USA (2009)
- 54. External Reviewer: Canadian Institutes of Health Research (CIHR), Canada (2007)
- 55. External Reviewer: Multiple Sclerosis Society of Canada (MSSOC), Canada (2007)

SERVICE AT THE UNIVERSITY OF MANITOBA

- 56. Animal Care Committee, Bannatyne Campus, Univ. Manitoba (2022-present)
- 57. Headship Search Committee for the Department of Physiology and Pathophysiology, Univ. of Manitoba (2022-2023)
- 58. Faculty Search Committee: Department of Pharmacology and Therapeutics, University of Manitoba (2022)
- 59. Forough Khadem Major Award Committee, RFHS, Univ. of Manitoba (2022)
- 60. Chair, Award and Recognition Committee, Department of Physiology and Pathophysiology, University of Manitoba (2020-present)
- 61. Institutional CFI Advisory Committee, University of Manitoba (2020-present)
- 62. Graduate Program Committee, Dept of Physiology and Pathophysiology (2018-2020)
- 63. Senator, the University of Manitoba: Representing College of Medicine (2016-2019)
- 64. Review Panel, Children's Hospital Research Institute of Manitoba (2019-present)
- 65. Research Mentor/Advisor, new faculty recruit, Department of Anatomy and Human Cell Science, University of Manitoba (2019-present)
- 66. Faculty Search Committee, Dept. of Physiology and Pathophysiology (2018-2019)
- 67. Member, The Henry G. Friesen Chair in Metabolic & Endocrine Diseases Renewal Committee, Univ. of Manitoba, 2018

- 68. Major Award Committee, Rady Faculty of Health Sciences, Univ. of Manitoba (2018)
- 69. Examiner, Promotion and Tenure Committee, Rady Faculty of Health Sciences, Univ. of Manitoba (2017-present)
- 70. Promotion and Tenure Committee, Department of Physiology and Pathophysiology, Rady Faculty of Health Sciences, Univ. of Manitoba (2018)
- 71. Search Committee, Bihler Chair in Stem Cell Research, Uni. of Manitoba (2018)
- 72. Max Rady College of Medicine Executive Council, Univ. of Manitoba (2016present)
- 73. Member, Undergraduate Medical Education Progress Committee (UGME), Max Rady College of Medicine, Univ. of Manitoba (2012-2018)
- 74. Member, Dean's Reappointment Advisory Committee: Rady Faculty of Health Sciences and Dean, Max Rady College of Medicine, Univ. of Manitoba (2016)
- 75. Interviewer, Medicine Admission, Univ. of Manitoba (2016-present)
- 76. Member, CancerCare Manitoba Grant review panel, Winnipeg MB (2015-2017)
- 77. Member, Research Manitoba Studentship Peer-review panel, Winnipeg (2014-2016)
- 78. Member, College of Reviews, CIHR Internal Peer-Review, Rady Faculty of Health Sciences, University of Manitoba, Winnipeg, MB (2013-present)
- 79. Panel member, Thorlakson Scientific Subcommittee, Grant review, University of Manitoba, Winnipeg, MB (2011-2015)
- 80. Undergraduate Research Poster Competition Panel, U of M, Winnipeg (2015)
- 81. Neuroscience Faculty Search Committee, Univ. of Manitoba, Winnipeg, (2012-2013)
- 82. Investigation Committee on Academic Integrity, VP Research, Univ. Manitoba (2012)
- 83. External Reviewer, Animal Care Committee, University of Manitoba (2012, 2013)
- 84. Judge, Children's Hospital Research Institute of Manitoba Meeting (2011-2020)
- 85. Headship Search Committee for the Department of Physiology and Pathophysiology, Univ. of Manitoba (2012)
- 86. Departmental Representative, UGME (Undergraduate Medical Education), Accreditation Survey Team, University of Manitoba, Winnipeg, MB (2010-2011)
- 87. Judging panel, Canadian Student Health Research Forum, Winnipeg (2010-2020)
- 88. Judge, Manitoba Neuroscience Network Meeting, Winnipeg, MB (2010-2017)
- 89. Director, Imaging Facility, Regenerative Medicine Program, U of M (2010-present)

SUPERVISORY AND MENTORSHIP ACTIVITIES

LOCAL, NATIONAL AND INTERNATIONAL MENTORSHIP ACTIVITIES

2019-present Academic Research mentor

I serve as a research mentor of a new Assistant Professor at the Department of Human Anatomy and Cell Science, University of Manitoba

2019-2020 The endMS National Training Program (SPRINT)

I provided mentorship for a group of junior researchers (graduate students and postdoctoral fellows) for the endMS National Training Program (SPRINT). This is to

enhance MS research in Canada by increasing the skills and intent among trainees in MS research area. I work with three trainees for one year.

2019-present International Women in Multiple Sclerosis (iWiMS) Mentorship

Program: I am a member of the iWiMS Mentorship program and provide mentorship and advice on career development of junior researchers.

TRAINEE SUPERVISION AT UNIVERSITY OF MANITOBA

POST-DOCTORATE FELLOWS AND VISITING SCHOLARS

- 1. Principal advisor: Dr. Elisabet Jakova, Univ. of Manitoba (Starting Summer 2023)
- 2. Principal Advisor: Dr. Shiva Nemati, Univ. of Manitoba (2020-2023)
- 3. Principal Advisor: Dr. Axel Honore, Univ. of Manitoba (2019)
- 4. Principal Advisor: Dr. Brahim Gargouri, University of Manitoba (2019)
- 5. Principal Advisor: Dr. Hardeep Kataria, University of Manitoba (2015-2018)
- 6. Principal Advisor: Dr. Davood Mehrabani, Visiting Fellow, Shiraz University, Iran, (2015-2016)
- 7. Co- Advisor: Dr. Ali Tamayol, Visiting Fellow, Harvard University (2013-2014)

RESEARCH ASSOCIATES AND ASSISTANTS

- 8. Principal Advisor: Dr. Shiva Nemati, Univ. of Manitoba (2023-present)
- 9. Primary Supervisor: Dr. Hardeep Kataria, Research Associate, U of M (2018-2022)
- 10. Primary Supervisor: Dr. Harshita Chaudhury, Research Associate, U of M (2020-2021)
- 11. Primary Supervisor: Dr. Arsalan Alizadeh, Research Associate, U of M (2018-2020)
- 12. Primary Supervisor: Shana Kahnamoui, Research Technician, U of M (2018-2019)
- 13. Primary Supervisor: Khuong Le, Research Technician, U of M (2018-2019)
- 14. Primary Supervisor: Dr. Santhosh Thomas, Research Associate, U of M (2013-2018)
- 15. Primary Supervisor: Marie Gauthier, Research Assistant, U of M (2011-2013)
- 16. Primary Supervisor: Zhen Yao, Research Assistant, U of M (2010)

PHD STUDENTS

- 17. Principal Advisor: Amir Ziaee, University of Manitoba (2021-present)
- 18. Principal Advisor: Mojtaba Hosseini, University of Manitoba (2019-present)
- 19. Principal Advisor: Christopher Hart, University of Manitoba (2014-2020, Graduated)
- 20. Principal Advisor: Scott Dyck, University of Manitoba (2012-2018, Graduated)
- 21. Principal Advisor: Arsalan Alizadeh, University of Manitoba (2012-2018, Graduated)

MSC STUDENTS

- 22. Principal Advisor: Maria Astrid Jimenez, University of Manitoba (2021-present)
- 23. Principal Advisor: Narjes Shahsavani, University of Manitoba (2018-2021, Graduated)
- 24. Principal Advisor: Ghazaleh Shahriary, Univ. of Manitoba (2015-2018, Graduated)

MEDICAL STUDENTS: BSC AND MED I/II

- 25. Principal Advisor: Ashan Weebedda, BSc Med, University of Manitoba (2023-2024)
- 26. Principal Advisor: Ruidi Wang, BSc Med, University of Manitoba (2021-2022)
- 27. Principal Advisor: Khashayar Akbari, Med I, University of Manitoba (2021-2022)
- 28. Co-Advisor: Derek Harris, BSc Med, University of Manitoba (2021-2022)
- 29. Principal Advisor: Ben Borys, Med I, University of Manitoba (2020, completed)
- 30. Principal Advisor: Eugene Kwak, BSc Med, Univ. Manitoba (2018-2019, completed)
- 31. Principal Advisor: Graham McLeod, BSC Med, Univ. Manitoba (2017-2018, Graduated)
- 32. Co-Advisor: Alennie Lopez, BSc Med, University of Manitoba (2017-2018, Graduated)
- 33. Principal Advisor: Matthew Buchok, MedII, University of Manitoba (2017, Graduated)
- 34. Principal Advisor: Ryan Henrie, BSc Med, Univ. Manitoba (2015-2016, Graduated)
- 35. Principal Advisor: Shekoofeh Saboktakin Rizi, Med II, Univ. Manitoba (2016, Graduated)
- 36. Co-Advisor: Stefany Morrison, Med II, University of Manitoba (2016, Graduated)
- 37. Co-Advisor: Albert Yeung, BSc Med, University of Manitoba (2015-2016, Graduated)
- 38. Principal Advisor: Hoang Nguyen, BSc Med, Univ. Manitoba (2011-2012, Graduated)
- 39. Co-Advisor: Alysa Almoujia, BSc Med, University of Manitoba (2013-2014, Graduated)

UNDERGRADUATE AND GRI MITACS STUDENTS

- 40. Principal Advisor: Shraman Jana, MITACS student, India, (May-August 2023)
- 41. Principal Advisor: Maryn Woo, Undergraduate Research Student Awardee, Univ. Manitoba (2022)
- 42. Principal Advisor: Harini Gopalakrishnan, MITACS student, India, (June-Sep 2022)
- 43. Principal Advisor: Maria Del Toro Zechinelli, MITACS student, Mexico, (July-Oct 2021, completed)
- 44. Principal Advisor: Jessica Franco Aguado, MITACS student, Mexico, (May-August 2019, completed)
- 45. Principal Advisor: Khashayar Akbari, Summer student from McMaster University, (2016, 2017, 2018, Completed)
- 46. Principal Advisor: Maria Astrid Jiménez, MITACS student, Mexico, (May-August 2018, Completed)
- 47. Principal Advisor: Peiyu Wang, MITACS student, China, (May-August 2018, Completed)
- 48. Principal Advisor: Chenxi Li, MITACS student, China, (July-October 2017, Completed)
- 49. Principal Advisor: Byung Heon Cho, Undergraduate Summer Research Student Awardee, University of Manitoba (2015, Completed)
- 50. Principal Advisor: Graham McLeod, Undergraduate Summer Research Student Awardee, University of Manitoba (2015, Completed)
- 51. Principal Advisor: Evan Proulx Undergraduate Summer Research Student Awardee, University of Manitoba (2014, Completed)
- 52. Principal Advisor: Laura Tapely, University of Manitoba (2011, Completed)
- 53. Principal Advisor: Kamilla Kosciuczyk, University of Manitoba (2011, Completed)

HIGH SCHOOL STUDENTS

- 54. Frances Laire: Career Internship, Daniel McIntyre Collegiate Institute, (2016, Completed)
- 55. Arween Apuyan: Career Internship, Daniel McIntyre Collegiate Institute, (2015, Completed)
- 56. Louise Hemedes: Career Internship, Daniel McIntyre Collegiate Institute, (2014, Completed)
- 57. Beatriz Laya: Career Internship, Daniel McIntyre Collegiate Institute (2013, Completed)

GRADUATE STUDENT ADVISORY COMMITTEE MEMBERSHIP

- 58. Shakila Sultana: MSc Student, Department of Physiology and Pathophysiology, University of Manitoba, Internal member, Supervisor: Dr. Eftekharpour (2020present)
- 59. Alana Slike, MSc Student, Department of Department of Pharmacology & Therapeutics, University of Manitoba, Supervisor: Dr. Galen Wright (2021-present)
- 60. Parisa Tabeshmehr, MSc Student, Department of Physiology and Pathophysiology, University of Manitoba, Internal member, Supervisor: Dr. Eftekharpour (2020present)
- 61. Yasmin AbdElkader, PhD Student, Department of Anatomy and Human Cell Sciences, University of Manitoba, External member, Supervisor: Dr. Benjamin Lindsey (2021-2022)
- 62. Lidia Trzuskot: MSc Student, Department of Anatomy and Human Cell Sciences, University of Manitoba, External member, Supervisor: Dr. Lindsey (2020-2022), *Thesis Completed*
- 63. Abbas Rezaei: MSc Student, Department of Pharmacology and Therapeutics, External Member, Supervisor: Dr. Kauppinen (2015-2017)- *Thesis Completed*
- 64. Nagakannan Pandian: MSC Student, Department of Physiology and Pathophysiology, University of Manitoba, Internal member, Supervisor: Dr. Eftekharpour (2014-2020)- *Thesis completed*
- 65. Mohamed Ariff Iqbal: MSc student, Department of Physiology and Pathophysiology, University of Manitoba, Internal member, Supervisor: Dr. Eftekharpour (2013-2016)-*Thesis Completed*
- 66. Christopher Aiken: MD/PhD student , Department of Physiology and Pathophysiology, University of Manitoba, Internal Member, Supervisor: Dr. Werbowetski-Ogilvie (2012-2018)- *Thesis Completed*
- 67. Dmitiri Krassioukov: MD/PhD student, Department of Anatomy and Human Cell Science, University of Manitoba, External member, Supervisor: Dr. Del Begio, (January 2013-February 2014, *withdrawn*)
- 68. Emma Hauch: MSc student, Department of Physiology and Pathophysiology, University of Manitoba, Internal member, Supervisor: Dr. Eftekharpour (July 2012-

January 2013- withdrawn)

- 69. Hesam Movassagh: PhD student, Department of Immunology, University of Manitoba, External Member, Supervisor: Dr. Soussi-Gounni, (2011-2016)-*Thesis completed*
- 70. Ravindar Kaur: PhD candidate, Department of Biochemistry and Medical Genetics, Internal Member, Supervisor: Dr. Werbowetski-Ogilvie, (2011-2016)- *Thesis Completed*
- 71. Naima Jahan: MSc student, Department of Anatomy and Human Cell Science, External Member, Supervisor: Dr. Hannila, (Sep 2011-Oct 2013)- *Thesis Completed*

TEACHING

COURSE DEVELOPMENT

IMED7104, Neural Stem Cells: Biology and Regenerative Medicine Applications.

COURSE COORDINATION AND TEACHING

UNDERGRADUATE TEACHING

- Interdisciplinary Health Program Biomedical Sciences Concentration

<u>Course Coordinator and Instructor</u>: HEAL4630 Mechanisms of Disease 2, 3 credit hours, Classroom teaching 15 hours/course plus course coordination), 2019-present, every fall semester

- Undergraduate Pre-clerkship Medical Teaching

Medicine I: Sensory Systems, *Tutor (1 hour/year), 2010-present* Medicine I: Motor Systems, *Tutor (1 hour/year), 2010-present* Medicine I: Autonomic Nervous system, *Tutor (1 hour/year) 2010-present* Medicine I: Neuroanatomy Labs, Demonstrator *(14 hours/year), 2010-2019* Medicine II: Motor Systems I and II, *Tutor (2 hour/year), offered 2011-2015* Medicine II: Sensory Systems, *Tutor (1 hour/year), 2010-2015* Medicine II: Autonomic Nervous system, *Tutor (1 hour/year), 2010-2015*

Pharmacy: Applied Pathophysiology, PHMD 1010 Multiple Sclerosis, instructor, 1.5 hour/year, 2021-present

- **Post-baccalaureate Diploma in Medical Physiology and Pathophysiology**, PHGY 5012: Laboratory Physiology and Pathophysiology, Fall 2022 (60 hours)

GRADUATE TEACHING

- IMED 7104: Neural Stem Cells: Biology and Therapeutic Application, *Course Co-coordinator and instructor (1.5 credit hour, 12 hrs contact/year), 2020-Present*
- IMED 7410 Biomedical Trainee Skills Course, Graduate course, Course Cocoordinator and instructor (2015-2022) 42 contact hours/year)
- PHGY 7190 Research Topics in Physiology, Graduate Course, Course Director (36 hours/course), 2012, 2013, 2015, 2016, 2018, 2019, 2021

- IMED 7112 Fundamental Neuroscience Course, Part I, Graduate course, Section Co-coordinator (2012-2014) and Instructor (2 hours/year), bi-annually 2010-present
- IMED 7102 Fundamental Neuroscience Course, Part II, Graduate course, Instructor (2 hours/year), 2010, 2013, 2015, 2017
- IMED7092 Introduction to Stem Cell Biology, Graduate Course, Guest lecturer (2hours/course), 2017, 2018, 2019
- PHRM 7160/7170/7260/7270 Graduate Seminar course, College of Pharmacy: 2019

CHAIRING PHD DEFENSE, CANDIDACY EXAMINATION AND THESIS DEFENSE

- 72. Breanna Arnold, PhD Oral Defense, <u>External Examiner, University of</u> <u>Saskatchewan</u> (Aug 2022)
- 73. Erin Stephenson, PhD Oral Defense, <u>External Examiner, University of Calgary</u> (June 2018)
- 74. Christopher Aiken: MSc student, thesis examination, Department of Physiology and Pathophysiology, University of Manitoba, Internal Member, Supervisor: Dr. Werbowetski-Ogilvie (April 2018)
- 75. Nagakannan Pandian, PhD student, Department of Physiology and Pathophysiology, University of Manitoba, Internal Member, Supervisor: Dr. Eftekharpour, Candidacy examination (November 2017)
- 76. Abbas Rezaei: MSc Oral defense, Department of Pharmacology and Therapeutics, External Member, Supervisor: Dr. Kauppinen (Nov 2017)
- 77. Wenjun Xu: PhD Oral Defense, <u>External Examiner, University of Toronto</u> (June 2017)
- Mohamed Ariff Iqbal: MSc student, Department of Physiology and Pathophysiology, Internal Member, Supervisor: Dr. Eftekharpour, MSc thesis defense, August 2016
- 79. Ravindar Kaur: PhD Oral Defense, Department of Biochemistry and Medical Genetics, Internal Member, Supervisor: Dr. Werbowetski-Ogilvie, Thesis defense-October 2016
- Hesam Movassagh: PhD Oral Defense, Department of Immunology, University of Manitoba, External Member, Supervisor: Dr. Soussi-Gounni, Thesis defense January 2016
- Christopher Aiken: MD/PhD student , Candidacy examination, Department of Physiology and Pathophysiology, University of Manitoba, Internal Member, Supervisor: Dr. Werbowetski-Ogilvie, , June 2015
- 82. Hesam Movassagh: PhD student, Candidacy examination, Department of Immunology, University of Manitoba, External Member, Supervisor: Dr. Soussi-Gounni, October 2014
- 83. Naima Jahan: MSc student, Department of Anatomy and Human Cell Science, External Member, Supervisor: Dr. Hannila, MSc thesis defense, October 2013
- 84. Grace Choi (2012): PhD Proposal Defense Committee, External member Department of Immunology
- 85. Parvas Firos Vora (2012): PhD Oral Defense, Chair of the examination committee, Faculty of Graduate Studies
- 86. Maria Melanson (2011): PhD Oral Defense, Chair of the examination committee, Faculty of Graduate Studies.