Nafisa M. Jadavji, PhD, FAHA

Assistant Professor
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EDUCATION

Ph.D.	Department of Human Genetics, McGill University, 2012
	Dissertation: *Impact of genetic and nutritional disturbances in one-carbon metabolism on brain function and structure in mice*
M.Sc.	Department of Neuroscience, University of Lethbridge, 2008
B.Sc.	Department of Neuroscience, University of Lethbridge, 2006

PROFESSIONAL APPOINTMENTS & EXPERIENCE

2024 – present	Assistant Professor (tenure track), Division of Integrative and Molecular Physiology, Department of Biomedical Sciences, School of Medicine, Southern Illinois University Carbondale Cross Appointment: Department of Psychology
2019 – 2026	Research Assistant Professor, Department of Neuroscience, Carleton University
2022 – 2026	Research Assistant Professor, Department of Child Health, College of Medicine – Phoenix, University of Arizona, Phoenix Children's Hospital
2019 – 2024	Assistant Professor, College of Graduate Studies, College of Veterinary Medicine, College of Osteopathic Medicine, Midwestern University
2018 – 2019	Associate Scientist, Ottawa Research Hospital Research Institute, University of Ottawa
2015 – 2018	Postdoctorate, Department of Neuroscience, Carleton University Department of Cellular and Molecular Medicine, University of Ottawa
2013 – 2014	Postdoctorate, Department of Experimental Neurology, German Center for Neurodegenerative Diseases, Partner Site Berlin, Charité University Medicine

RESEARCH ACTIVITIES

Peer-Reviewed Publications (h-index = 29)

Graduate and undergraduate trainees are *italicized*, *denotes corresponding author, +denotes shared first authorship, IF = impact factor

Submitted/Under Review

Joshi SM, McKee A, Ille S, Buss K, Beach TG, Serrano GE, **Jadavji NM*** *(*under review, *Neuroscience*, *NSC-26-1595)***.** Increased protein expression of methylenetetrahydrofolate reductase and cystathionine β-synthase in medial prefrontal cortical tissue of female vascular dementia patients

Haage A, Cheng Y, Kozik AJ, Smith CT, Hagan A, **Jadavji NM*** (under review, *eLife,* 01-10-2026-FA-eLife-113374) When are Biomedical Postdocs Ready for the Faculty Job Market? A Mixed-Methods Analysis of Metrics and Resilience Among Faculty Job Seekers.

2026

79. *Abell AJ, Schuler LK*, **Jadavji NM*** (2026). Maternal dietary intake of folic acid, vitamin B12, and choline impacts offspring DNA methylation after birth. *Nutrients,* 18: 3306. (IF = 5.8)
*Featured on cover of *Nutrients* October 2026

78. *Burrows P, Dhillon H, McDermott GE, Covaleski A, Manfredi L*, Beach TG, Serrano GE, **Jadavji NM*** (2026). Ischemic stroke increases levels of the folate receptor and one-carbon enzymes in male and female brain tissue. *Translational Stroke Research,* 17:87 (IF = 5.4)

77. *Gunnala S*, **Jadavji NM*** (2026) Climbing Behavior of *Drosophila melanogaster* Larvae in Response to Hypoxia. *Journal of Visualized Experiments: Encyclopedia of Experiments: 208.*

76. *Jones N, Binte S*, **Jadavji NM*** (2026) Highlighting the mechanisms through which increased dietary folic acid and choline impact regeneration in the brain after damage. *Neural Regeneration:*21. doi: 10.4103/NRR.NRR-D-25-01911 (IF = 6.7)

75. *McCabe RM, Hurley L, Pull K*, **Jadavji NM*** (2026) Immunotherapies for Ischemic Stroke Patients: Current Status and Future Directions. *Medical Sciences*: 14:111. (IF = 5.9)

74. *Gunnala S*, Harrison A, Juba A, Ashcraft P, *Garg M,* Bottiglieri T, Buhlman LM, **Jadavji NM*** (2026) Increased dietary levels of folic acid reduce survival and alters climbing behaviors 24 hours after hypoxia in male and female *Drosophila melanogaster. Behavioral Brain Research:* 499: 115941. (IF = 2.3)

2025

73. **Jadavji NM** (2025) The importance of maternal diet on embryonic development. *Journal of Nutrition,*155: 3574-3575. PMID: 40939881. (invited) (IF = 3.8)

72. Mollet A, Hagan A, Smith CT, Kozik AJ, Cheng L, Haage A **& Jadavji NM*** (2025) Beyond the Leaky Pipeline: A Quantitative Analysis of the Academic Job Market in Humanities and Social Sciences. *Studies in Graduate and Postdoctoral Research:* 17:16-37.

71. Esfandiarei M, *Anwar F, Nuthi M*, Harrison, *Barrameda ME, Curry T*, Pull K, Currier Thomas T, **Jadavji NM** (2025) Apoptosis is increased in cortical neurons of female Marfan Syndrome mice. *microPublication Biology*. 10.17912/micropub.biology.001651. PMID: 40896254.

70. Balistreri CR, Magro D, **Jadavji NM** (2025) Insights into the toxic effects of micro-nano-plastics on the human brain and their relationship with the onset of neurological diseases: A narrative review. *Ageing Research Reviews. 102836* (IF =12)

69. Begdache L, Aslan Cin NN, **Jadavji NM*** (2025) Editorial: Nutrition and Neurobehaviors. *Frontiers In Nutrition:12:* 1637728. PMID: 40599549. **(**IF = 5.0)

68. *Gunnala S*, Buhlman LM, **Jadavji NM*** (2025) How Increase Dietary Folic Acid Intake Impact Health outcomes through Changes in Inflammation, Angiogenesis, and Neurotoxicity. *Nutrients*: 17: 1286. PMID: 40219043. (IF = 6.0)

2024

67. *Flynn B*, Cheng Y, Hagan A, Kozik AJ, Ng J, Smith CT, Haage A, **Jadavji NM*** (2024). An updated and expanded characterization of the biological sciences academic job market. *Frontiers in Research Metrics and Analytics: 9: 1473940.* PMID: 39655214. (IF = 1.6)

66. Kozik AJ, Haga A, **Jadavji NM**, Smith CT, Haage A (2024*)* Charting the course for early career academics: a longitudinal analysis of U.S. academic job market trends post-pandemic. *Studies in Graduate and Postdoctoral Research: https://doi.org/10.1108/SGPE-10-2023-0095*

65. *Anwar F, Mosely MT*, Jasbi P, Chi J, Gu H, **Jadavji NM*** (2024) Maternal dietary deficiencies in folic acid and choline change metabolites levels in offspring after ischemic stroke. *Metabolites:* 14: 552. PMID: 39452933. (IF = 4)

64. Esfandiarei M, *Strash SGU*, *Covaleski A, Ille S*, Li W, **Jadavji NM*** (2024) Maternal dietary deficiency in choline reduced levels of MMP-2 levels in blood and brain tissue of male offspring mice. *Cells:* 13.1472. PMID: 39273042. (Invited). (IF = 6.7)

63. *Yaldiko A, Marella P, Coonrod S*, **Jadavji NM*** (2024) Maternal dietary deficiencies in folic acid or choline reduce primary neuron viability after exposure to hypoxia through increased levels of apoptosis. *Nutritional Neuroscience:* 28: 583-590. PMID: 39230256. (IF = 3.6)

62. Esfandiarei M, Bottiglieri T, **Jadavji NM*** (2024) Modifying levels of maternal one-carbon metabolism through diet to study the impact offspring health outcomes. *Journal of Visualized Experiments:* doi: 10.3791/66827. PMID: 39007568. (IF = 1.2)

61. *Joshi S,* **Jadavji NM*** (2024) Deficiencies in one-carbon metabolism led to increased neurological disease risk and worse outcome: homocysteine is a marker of disease state. *Frontiers in Nutrition: 11.* 1285502. PMID: 38450239. (IF = 4)

60. *Joshi S,* Currier Thomas T, **Jadavji NM*** (2024). The impact of increasing one-carbon metabolites on traumatic brain injury (TBI) outcome using pre-clinical models. *Neural Regeneration Research:* 19: 1728-33. PMID: 38103238. (IF =5.9)

2023

59. Pull K, Folk R, *Kang J, Jackson S*, Gusek B, Esfandiarei M, **Jadavji NM*** (2023) Impact of maternal dietary folic acid or choline dietary deficiencies on vascular function in young and middle-aged female mouse offspring after ischemic stroke. *American Journal of Physiology – Heart and Circulatory Physiology.* 325: H1354. PMID: 37801048. (IF = 4.5)

58. *Virdi S, McKee AM, Nuthi M*, **Jadavji NM*** (2023). The role of one-carbon metabolism on healthy brain aging. *Nutrients.* 15: 3891. PMID: 37764675. (IF = 6.0) (invited)

57. Hogervorst E, Haskell-Ramsay C, **Jadavji NM***. (2023). Editorial: Women in Nutrition and Brain Health. Frontiers in Nutrition. *Frontiers in Nutrition. 10:* 122975. PMID: 37781130

56. **Jadavji NM**, Haelterman NA, *Sud R*, Antonietti A. (2023). Editorial: Reproducibility in Neuroscience. *Frontiers in Integrative Neuroscience*. 17: 1271818. PMID: 37727652.

55. *Hurley L, Jauhal J, Ille S, Pull K*, Malysheva OV, **Jadavji NM***. (2023). Maternal dietary deficiencies in one-carbon metabolism during early neurodevelopment result in larger damage volume, reduced neurodegeneration and neuroinflammation and changes in choline metabolites after ischemic stroke in middle-aged offspring. *Nutrients*. 15:1556 (IF = 6.0) (invited)

54. *Yahn GB*, Wasek B, Bottiglieri T, Malysheva O, Caudill MA, **Jadavji NM***. (2023). A dietary vitamin B12 deficiency impairs motor function and changes neuronal survival and choline metabolism after ischemic stroke to the sensorimotor cortex in middle aged male and female mice. *Nutritional Neuroscience*, 27:300-309. PMID: 36932327. (IF = 5.0).

53. *Clementson M, Hurley L, Coonrod S, Bennett C, Marella P, Pascual AS, Pull K*, Wasek B, Bottiglieri T, Malysheva O, Caudill M, **Jadavji NM***. (2023). Maternal dietary deficiencies in folates or choline during pregnancy and lactation worsen stroke outcome in 3-month-old male and female mouse offspring, *Neural Regeneration Research*. 18:2443-. PMID: 37282475 (IF = 6.1)

2022

52. *Virdi S*, Jadavji NM* (2022) The impact of maternal folates on brain development and function after birth. *Metabolites* 12(9): 876. PMID: 36144280 (IF = 5.581) (Invited).

51. *Poole J, Jasbi J, Pascual AS, North S, Kwatra N*, Weissig V, Gu H, Bottiglieri T, **Jadavji NM***. (2022). Ischemic stroke and dietary vitamin B12 deficiency in old-aged females impaired motor function, increased ischemic damage size, and changed metabolite profiles in brain and cecum tissue. *Nutrients*, 14, 2960. (IF = 6.0)

50. Shirinian M, Chen C, Ushida S, **Jadavji NM***. (2022) Editorial: The Role of Epigenetics in Neuropsychiatric Disorders. *Frontiers in Molecular Neuroscience*, 15:985023. PMID: 35959102

49. Sarabipour S[+], Hainer SJ[+], Furlong E[+], **Jadavji NM[+],** de Winde CM, Bielczyk N, Shah AP. (2022). Writing an effective and supportive recommendation letter. *The FEBS Journal* 289: 298-307. PMID: 33665964. (IF = 4.267)

48. Sarabipour S, Hainer SJ, Arslan FN, Winde CM, Furlong E, Bielczyk N, **Jadavji NM**, Shah AP, Davla S, Asby N. (2022) Building and sustaining mentor interactions as a mentee. *The FEBS Journal*:289: 1374-1384. PMID: 33818917. (IF = 4.267)

47. Rando HM, Wellhausen N Ghosh, Dattoli AA, Hu F, Lee AJ, Rafizadeh DN, Byrd JB, Qi Y, S Y, Field JM, Guebila MB, **Jadavji NM,** Lordan R, Shelly AN, Brueffer C, Wang J, Goel RR, Park YS COVID-19 Review Consortium, Boca SM, Gitter A, Greene CS. (2022) Identification and Development of Therapeutics for COVID-19. *mSystems*. 6: e000233-32. PMID: 34726496

2021

46. Lordan R, Rando HM, COVID-19 Review Consortium (**Jadavji NM**) Greene CS. (2021). Dietary Supplements and Nutraceuticals under Investigation for COVID-19 Prevention and Treatment. *mSystems*. 6: e00122-21. PMID: 33947804

45. Auer S, Haelterman NA, Weissgerber TL, Erlich JC, Susilaradeya D, Julkowska M, Gazda MA, Reproducibility for Everyone Team, Schwessinger B*, **Jadavji NM*** (2021) c*eLife* 10: e64719 (IF = 7.080)

44. *Bennett C*, Green J, Ciancio M, Goral J, Pitstick L, Pytynia M, Meyer A, *Kwatra N*, **Jadavji NM***. (2021). Dietary folic acid deficiency impacts hippocampal morphology and cortical acetylcholine metabolism in adult male and female mice. *Nutritional Neuroscience*: 25:2057-2065. (IF = 5.0).

43. *Yahn GB, Leoncio J*, **Jadavji NM**.* (2021) The role of dietary supplementation of one-carbon metabolism on stroke outcome. Current Opinion in Clinical Nutrition and Metabolic Care: doi: 10.1097/MCO.0000000000000743. PMID: 33631772. (IF = 1.521) (invited)

42. de Winde CM, Sarabipour S, Carignano H, Davla D, Eccles D, Hainer SJ, Haidar M, Iiangovan V, **Jadavji NM**, Kritsiligkou, Lee TY Olafsdottir, Symmons O. (2021). Towards inclusive funding practices for early career researchers. Journal of Science Policy and Governance, 18:1

41. *Yahn GB, Abato JE*, **Jadavji NM*.** (2021). Role of vitamin B12 deficiency in ischemic stroke risk and outcome. *Neural Regeneration Research*.16:470-474. PMID: 32985467. PMCID: PMC79986019. (IF = 6.1).

40. *Al Rubaye H, Adamson C*, **Jadavji NM***. (2021). The role of maternal diet on offspring gut microbiota development. *Journal of Neuroscience Research*. 99:284-93. PMID: 32112450. (IF = 4.139)

2020

39. *Burgess K, Bennett C, Mosnier H, Kwatra N, Bethel B,* **Jadavji NM*.** (2020). The antioxidant role of one-carbon metabolism on stroke. *Antioxidants*. 90:1141 PMID: 33212887. PMCID: PMC7698340. (invited) (IF = 7.675)

38. Fernandes JD, Sarabipor A, Smith CT, Niemi NM, **Jadavji NM**, Kozik AJ, Holehouse AS, Pejaver V, Symmons O, Filho AWB, Haage A. (2020). Research Culture: A survey-based analysis of the academic job market. *eLife*. 9: e54097 PMID: 32530420. PMCID: PMC7360372. (IF = 7.551)

37. *Abato JE, Moftah M*, Cron GO, Smith PD, **Jadavji NM*.** (2020). Methylenetetrahydrofolate reductase deficiency alters cellular response after ischemic stroke in male mice. *Nutritional Neuroscience*. 25:558-566. PMID: 32448097 (IF = 5.0).

36. *Van Benthem K*, Corker C, Inoue J, Adi MN, **Jadavji NM*.** (2020). The changing postdoc and key predictors of satisfaction with professional training. *Studies in Graduate and Postdoctoral Research*. 11:123-142.

2019

35. **Jadavji NM***, *Mosnier H*, *Kelly E*, *Lawrence K*, *Cruickshank S*, *Stacey S*, *McCall A*, *Dhatt S*, Arning E, Bottiglieri T, Smith PD. (2019) One-carbon metabolism supplementation improves outcome after stroke in aged male MTHFR-deficient mice. *Neurobiology of Disease.* 132: 104613. PMID: 31525435. (IF = 5.227)

34. Wilson LA, Murphy MSQ, Ducharme R, Denize K, **Jadavji NM**, Potter B, Little J, Chakraborty P, Hawken S, Wilson K. (2019). Postnatal gestational age estimation via newborn screening analysis: application and potential. *Expert Review of Proteomics.* 16:727-31. PMID: 31422714. PMCID: PMC6816481. (IF = 3.48) (invited)

33. Kroenberg G, Gertz K, *Uhlemann R*, Kirste I, An J, **Jadavji NM**, Schott BH, Endres M, Hellweg R, Harms C. (2019). Reduced hippocampal neurogenesis in mice deficient in apoptosis

repressor with caspase recruitment domain (ARC). *Neuroscience.* 416: 20-29. PMID: 31356897. (IF = 3.502).

32. *Murray LK*, **Jadavji NM**[*].(2019). The role of B-vitamin metabolism in Parkinson's disease onset, pathology, and mechanisms. *Nutrition Research Reviews.* 32: 218-230. PMID: 31303188. (IF = 4.586).

31. *Moftah M*, **Jadavji NM***. (2019). The role of behavioral training in reducing functional impairments after stroke. *Neural Regeneration Research*. 14:1507-08. PMID: 31089041. PMCID:PMC 6557093. (IF = 6.1). (invited).

30. **Jadavji NM***, *Murray LK, Emmerson JT, Rudyk CA,* Hayley S, Smith PD. (2019). A genetic deficiency in one-carbon metabolism increases oxidative stress in a mouse mode of Parkinson's disease. *Toxicological Sciences.* 169*:*25-33. PMID: 22521626. PMCID: PMC6484892. (IF = 4.398).

29. *Prieur E,* **Jadavji NM**[*]. (2019). Assessing spatial working memory using the spontaneous y-maze alternation test in mice. *Bio Protocols*, 9:1-10. PMID: 33654968. PMCID: PMC7854095.

2018

28. **Jadavji NM***, *Emmerson JT, Shanmugalingam U,* Willmore WG, MacFarlane AJ, Smith P. (2018). MTHFR-deficiency increases vulnerability to stroke: *in vitro* and *in vivo*. *Experimental Neurology*. 309:14-22. PMID: 30055159. (IF = 4.483).

27. *Murray LK, Smith MJ,* **Jadavji NM***. (2018). Maternal over supplementation with folic acid and its impact on neurodevelopment of offspring. *Nutrition Reviews*. 76:708-721. PMID: 30010929. (IF = 5.54).

26. *Zhang M*[+], **Jadavji NM**[+*], *Yoo HS,* Smith PD. (2018). Human GDF-11 counteracts age-related short-term memory impairments in middle-aged mice. *behavioral Brain Research*, 341:45-49. PMID: 29253511. (IF = 3.002).

2017

25. **Jadavji NM***. (2017). The integrated stress response is not a target for diffuse white matter injury in premature infants. *Journal of Neuroscience*, 37: 11772-1173. PMID: 29212946. (IF = 5.924)

24. Prieur EAK, Pjetri E, Ziesel S, **Jadavji NM***. (2017) BHMT-deficiency results in brain atrophy and impairs memory in mice. *Applied Physiology, Nutrition, and Metabolism*, 42:1228-1231. PMID: 28715642. (IF = 3.445).

23. Emmerson JT, *Murray LK*, **Jadavji NM***. (2017). Impact of one-carbon metabolism on neural recovery. *Neural Regeneration*,12: 1-2. PMID: 28852387. PMCID: PMC5558484. (IF = 6.1). (invited).

22. **Jadavji NM**[*], *Emmerson JE*, Willmore WG, MacFarlane AJ, Smith PD. (2017). B-vitamin and choline supplementation increases neuroplasticity and recovery after stroke. *Neurobiology of Disease*, 103:89-100. PMID: 28396257. (IF = 5.624).

21. Bahous R, **Jadavji NM**, Deng L, Cosin-Tomas M, Lu J, Malysheva O, Leung KY, Ho MK, Pallas M, Kaliman P, Greene NDE, Bedell BJ, Caudill MA, Rozen R. (2017). High dietary folate in pregnant mice leads to pseudo-MTHFR deficiency and altered methyl metabolism, with embryonic growth delay and short-term memory impairment in offspring. *Human Molecular Genetics*, 26:888-900. PMID: 28069796. PMCID: PMC5409086. (IF = 5.571).

20. Dam K, Füchtemeier M, Farr TD, Boehm-Strum P, Foddis M, Dirnagl U, **Jadavji NM***. (2017). Deficiencies in methylenetetrahydrofolate reductase and dietary folic acid alter choline metabolism during chronic hypoperfusion. *Behavioral Brain Researc*h, 321:201-208. PMID: 28087280. (IF = 3.002).

2016

19. Koturbash I, **Jadavji NM**, Kutanzi K, Rodriguez-Juarez R, Kogosov D, Metz G, Kovalchuk, O. (2016). Fractionated low-dose exposure to ionizing Radiation Leads to DNA Damage, Epigenetic Dysregulation, and Behavioral Impairment*. Environmental Epigenetics*, 2:1-13. PMID: 29492301. PMCID: PMC5804539.

18.Grummisch JA, **Jadavji NM**, Smith PD. (2016). The pleiotropic effects of tissue plasminogen activator (tPA) in the brain: implications for stroke recovery. *Neural Regeneration Research*, 11: 1401-2. PMID: 27482209. PMCID: PMC5090832. (IF = 6.1). (invited).

17. Emmerson JT, **Jadavji NM***. (2016). Impact of maternal folic acid deficiencies on early childhood neurological development. *Journal of Pediatric Reviews*, 4: e6174 (invited).

16. *Shanmugalingam U,* **Jadavji NM**, Smith PD. (2016). Role of granulocyte macrophage colony stimulating factor in regeneration of the central nervous system. *Neural Regeneration Research*,11: 902-903. PMID: 27482209. PMCID: PMC4962578. (IF = 6.058). (invited).

15. *Grummisch JA*, **Jadavji NM**, Smith PD. (2016). Tissue plasminogen activator promotes cell survival *in vitro* during early postnatal neuronal development via Janus kinase 2- and mammalian target of rapamycin-dependent mechanisms. *Cellular and Molecular Neuroscience*, 74: 25-33. PMID: 26995507. (IF = 3.843).

14*. Theoret JK*[+], **Jadavji NM**[+*], *Zhang M*, Smith PD. (2016). Stroke-induced expression of GM-CSF receptor following white matter damage: implications for targeted stroke therapy via activation of mTOR signaling pathway. *European Journal of Neuroscience*, 43:17-24. PMID: 26474338. (IF = 3.753).

2015

13. **Jadavji NM**, Malysheva O, Caudill MA, Rozen R. (2015). MTHFR deficiency or reduced intake of folate or choline in pregnant mice results in impaired short-term memory and increased apoptosis in hippocampus in wild-type offspring. *Neuroscience*, 300: 1-9. PMID: 25956258. (IF = 3.327)

12. **Jadavji NM***, *Wieske F*, Dirgnal U, Winter C. (2015). Methylenetetrahydrfolate reductase deficiency alters levels of monoamine neurotransmitters, glutamate and gamma aminobutyric acid in brain tissue. *Molecular Genetics and Metabolism and Genetics Reports*, 3:1-4. PMID: 26937386.PMCID: PMC4750636.

11. **Jadavji NM***, Farr TD, Lips L, *Khalil A*, Boehm-Sturm P, Harms C, Foddis M, Füchtemeier M, Dirnagl D. (2015). Elevated levels of homocysteine, deficiencies in folic acid and uracil-DNA glycosylase impair learning in a mouse model of vascular cognitive impairment. *Behavioural Brain Research*, 283: 215-226. PMID: 2565513. (IF = 3.002).

2014

10. **Jadavji NM**, *Bahous R*, Deng L, Wang XL, Malysheva O, Caudill MA, Bedell BJ, Rozen R. (2014). A mouse model for genetic variation in methionine synthase reductase exhibits mild hyperhomocysteinemia, short-term memory impairment and biochemical changes in hippocampus. *Biochemical Journal*, 461:205-12. PMID: 24800750. (IF = 4.396

2012

9. **Jadavji NM**, Deng L, Leclerc D, Malysheva O, Caudill MA, Bedell BJ, Rozen R. (2012). Methylenetetrahydrofolate reductase deficiency in mice impairs motor and cognitive function, with morphological and neurobiochemical changes in cerebellum and hippocampus. *Molecular Genetics and Metabolism*, 106:149-159 PMID: 22521626. (IF = 3.774).

2011

8. **Jadavji NM**, *Supina RD*, Metz GA. (2011). Blocking glucocorticoid and mineralocorticoid receptors neutralizes motor function impairment associated with stress. *Neuroendocrinology*, 94:278-90. PMID:22024815. (IF = 4.373).

2009

7. Zucchi FCR, Kirkland SW, **Jadavji NM**, van Waes L, Klein A, Supina R, Metz GA. (2009). Predictable stress versus unpredictable stress: a comparison in a rodent model of stroke. *Behavioral Brain Research*, 205:67-75. PMID: 19573561. (IF = 3.002).

6**. Jadavji NM**, Metz GA. (2009). Both pre- and post-treatment with experiential therapy is beneficial in 6-OHDA dopamine-depleted rat. *Neuroscience*, 158:373-86. PMID: 19032978. (IF = 3.327).

2008

5. **Jadavji NM**, Metz GA. (2008). Sex differences on skilled reaching task in response to stress and recovery from stress. *Behavioral Brain Research*,195:251-9. PMID: 18840472. PMCID: PMC5222625. (IF = 3.002).

4. Smith LK, **Jadavji NM**, Colwell KL, Perehudoff SK Metz GA. (2008). Stress and glucocorticoids accelerate dopaminergic apoptosis and exaggerate motor symptoms in a rat model of Parkinson's disease. *European Journal of Neuroscience,* 27: 2133-2146. PMID: 18412632. (IF = 3.753).

2007

3. **Jadavji NM**, Metz GA. (2007). Experiential therapy for Parkinson's disease. *University of Lethbridge Graduate Student Association Conference Proceedings*. 1:62-68.

2006

2. **Jadavji NM**, Kolb B, Metz GA. (2006). Enriched environment improves motor function in intact and unilateral dopamine-depleted rats: implications for Parkinson's disease. *Neuroscience,* 140: 1127-1138. PMID: 1667892. (IF = 3.327).

2005

1. Metz GA, **Jadavji NM** and Smith LK. (2005). Modulation of motor function by stress: a novel concept of the effects of stress and corticosterone on behavior. *European Journal of Neuroscience,* 22: 1190-1200. PMID: 16176362. (IF = 3.753).

Edited Book

2020 **Jadavji NM**, editor. The Role of Nutrition during Aging: A Handbook for Nutritional Neuroscience. London, UK: Brain & Life Publishing. Paperback ISBN 9781912533053, eBook ISBN 9781912533060. https://www.amazon.com/-/e/B083TGR3L5 (invited).

Book chapters

2026

7. *Joshi SM, McCabe R*, **Jadavji NM * (**2026) Dietary interventions and neurobehavior in society. Nutritional Neuroscience: from bench to bed side. Editor: Reinaldo Oria, Joano Malva, Carlos Alexander Netto. Elsevier. (invited)

2025

6. *Virdi S, McKee AM, Nuthi M*, **Jadavji NM*** (2025). The role of one-carbon metabolism on healthy brain aging. Nutrition Interventions for Healthy Aging. Moustapha Drame, Lidvine Godaert. MDPI.

2023

5. *Clementson M, Jauhal J*, **Jadavji NM***. (2023). Dietary B-vitamins deficiencies and maternal over supplementation on neurodevelopment: an updated narrative. Vitamins and Minerals in Neurological Disorders. Editor: Colin Martin, Vinood Patel, and Victor Preedy. Elsevier. p661-672. (invited).

2022

4. *Marella P*, *Yahn GB*, *Kang J*, **Jadavji NM***. (2022). The impact of homocysteine on ischemic stroke and dementia: an updated review of clinical studies and mechanisms in Advances in Health and Disease. Nova Science Publishers Inc. p91-109.

2019

3. *Moftah M, Emmerson JT*, **Jadavji NM***. (2019). Linking homocysteine, B-vitamins, and choline to ischemic stroke risk. Molecular Nutrition Vitamins. Editor: Vinood Patel. Elsevier. (invited).

2017

2. *Murray LK, Emmerson JT*, **Jadavji NM***. (2017). Roles of Folate in Neurological Function. In Folic Acid: Sources, Health Effects, and Role in Disease. Nova Publishers Science Inc. p81-104. (invited).

2014

1. **Jadavji NM***. (2014). Betaine and the brain. Horizons in Neuroscience Research. Volume 15. Editors: Andreas Costa and Eugenio Villalba. Nova Science Publishers Inc. p225-231 (invited).

Posted Preprints

2026

22. Haage A, Cheng Y, Kozik AJ, Smith CT, Hagan A, **Jadavji NM*** (2026) When are Biomedical Postdocs Ready for the Faculty Job Market? A Mixed-Methods Analysis of Metrics and Resilience Among Faculty Job Seekers. https://www.biorxiv.org/content/10.64898/2026.08.14.744880v1

2025

21. *Joshi SM, McKee A, Ille S,* Buss K, Beach TG, Serrano GE, **Jadavji NM*** (2025). Vascular dementia increases levels of methylenetetrahydrofolate reductase and cystathionine β-synthase in female patients and changes gene expression of acetylcholine and glutamate clathrin-sculpted transport vesicles. https://www.biorxiv.org/content/10.1101/2025.11.21.689865v1

20. *Burrows P, Dhillon H, McDermott GE, Covaleski A, Manfredi L*, Beach TG, Serrano GE, **Jadavji NM** (2025). Ischemic stroke increases levels of the folate receptor and one-carbon enzymes in male and female brain tissue https://www.biorxiv.org/content/10.1101/2025.09.02.673861v1

2024

19. *Gunnala S*, Harrison A, Juba A, Ashcraft P, *Garg M,* Bottiglieri T, Buhlman LM, **Jadavji NM*** (2024) Increased dietary levels of folic acid reduce survival and alters climbing behaviors 24 hours after hypoxia in male and female *Drosophila melanogaster.* https://www.biorxiv.org/content/10.1101/2024.10.23.619884v3

18. Esfandiarei M, Anwar F, Nuthi M, Harrison A, Barrameda ME, Curry T, Pull K, Currier Thomas T, **Jadavji NM** (2024) Apoptosis is increased in cortical neurons of female Marfan Syndrome mice. https://www.biorxiv.org/content/10.1101/2024.10.14.618278v1

17. Flynn B, Cheng L, Hagan A, Kozik AJ, Ng J, Smith CT, Haage A, **Jadavji NM*** (2024). An updated and expanded characterization of the biological sciences academic job market. https://www.biorxiv.org/content/10.1101/2024.07.31.606033v1

16. Esfandiarei M, *Strash SGU*, *Covaleski A, Ille S*, Li W, **Jadavji NM*** (2024) Maternal dietary deficiency in choline reduced levels of MMP-2 levels in blood and brain tissue of male offspring mice. https://www.biorxiv.org/content/10.1101/2024.07.15.603575v1

15. *Anwar F, Mosely MT*, Jasbi P, Chi J, Gu H, **Jadavji NM*** (2024) Maternal dietary deficiencies in folic acid and choline change metabolites levels in offspring after ischemic stroke. https://www.biorxiv.org/content/10.1101/2024.06.29.601358v2.full.pdf+html

2023

14. *Yaldiko A, Coonrod S*, *Marella P, Hurley L,* **Jadavji NM**. (2023). Maternal dietary deficiencies in folic acid or choline reduce primary neuron viability after exposure to hypoxia through increased levels of apoptosis. https://www.biorxiv.org/content/10.1101/2023.12.09.570894v1

13. *Hurley L, Jauhal J, Ille S, Pull K*, Malysheva OV, **Jadavji NM**. (2023). Maternal dietary deficiencies in one-carbon metabolism during early neurodevelopment result in larger damage

volume, reduced neurodegeneration and neuroinflammation and changes in choline metabolites after ischemic stroke in middle-aged offspring.
https://www.biorxiv.org/content/10.1101/2023.02.15.528759v1

12. Mollet A, Hagan A, Smith CT, Kozik AJ, Chen L, Haage A, **Jadavji NM***. (2023) Beyond the Leaky Pipeline: A Quantitative Analysis of the Academic Job Market in Humanities and Social Sciences. https://osf.io/jzxst/

2022

11. *Clementson M, Hurley L, Coonrod S, Bennett C, Marella* P, Pascual AS, Pull K, Wasek B, Bottiglieri T, Malysheva O, Caudill M, **Jadavji NM**. (2022). Maternal dietary deficiencies in folates or choline during pregnancy and lactation worsen stroke outcome in 3-month-old male and female mouse offspring https://www.biorxiv.org/content/10.1101/2022.09.28.509960v1

10. Pull K, Folk R, *Kang J, Jackson S*, Gusek B, Esfandiarei M, Jadavji NM. (2022). Maternal dietary choline deficiencies during pregnancy and lactation reduce cerebral blood flow in 3-month-old female mice offspring following ischemic stroke to the sensorimotor cortex. https://www.biorxiv.org/content/10.1101/2022.08.23.505040v1

9. Kozik AJ, Haga A, **Jadavji NM**, Smith CT, Haage A. (2022). The US academic job marker survives the SARS-COV-2 global pandemic. https://www.biorxiv.org/content/10.1101/2022.05.27.493714v1

8. *Poole J*, Jasbi J, Pascual AS, *North S, Kwatra N*, Weissig V, Gu H, Bottiglieri T, **Jadavji NM**. (2022). Ischemic stroke and dietary vitamin B12 deficiency in old-aged females impaired motor function, increased ischemic damage size, and changed metabolite profiles in brain and cecum tissue. https://www.biorxiv.org/content/10.1101/2022.04.04.487028v2

2021

7. *Yahn GB*, Wasek B, Bottiglieri T, Malysheva O, Caudill MA, **Jadavji NM**. (2021). A dietary vitamin B12 deficiency impairs motor function and changes neuronal survival and choline metabolism after ischemic stroke to the sensorimotor cortex in middle aged male and female mice. https://www.biorxiv.org/content/10.1101/2021.08.17.456684v3

6. Rando HM, Wellhausen N Ghosh, Dattoli AA, Hu F, Lee AJ, Rafizadeh DN, Byrd JB, Qi Y, S Y, Field JM, Guebila MB, **Jadavji NM**, Lordan R, Shelly AN, Brueffer C, Wang J, Goel RR, Park YS. (2021). COVID-19 Review Consortium, Boca SM, Gitter A, Greene CS. Identification and Development of Prophylatics and Therapeutics for COVID-19. PMID: 33688554. PMC7941644. https://arxiv.org/abs/2103.02723

5. *Bennett C*, Green J, Ciancio M, Goral J, Pitstick L, Pytynia M, Meyer A, *Kwatra N*, **Jadavji NM*.** (2021). Dietary folic acid deficiency impacts hippocampal morphology and cortical acetylcholine metabolism in adult male and female mice. https://www.biorxiv.org/content/10.1101/2020.12.13.422535v1

2020

4. *Auer S, Haelterman NA*, Weissgerber TL, Erlich JC, Susilaradeya D, Julkowska M, *Gazda MA*, Reproducibility for Everyone Team, Schwessinger B[#], **Jadavji NM[*].** (2020). Reproducibility for everyone: a community-led initiative with global reach in reproducible research training. https://osf.io/dxw67/

3. de Winde CM, Sarabipour S, Carignano H, Davla D, Eccles D, Hainer SJ, Haidar M, Ilangovan V, **Jadavji NM**, Kritsiligkou, Lee TY Olafsdottir. (2020). Towards inclusive funding practices for early career researchers. https://doi.org/10.31219/osf.io/9sfm8

2019

2. *Abato JE, Moftah M*, Cron GO, Smith PD, **Jadavji NM**. (2019). Methylenetetrahydrofolate reductase deficiency alters cellular ischemic stroke in male mice. https://www.biorxiv.org/content/10.1101/857938v2

1. Fernandes JD, Sarabipor A, Smith CT, Niemi NM, **Jadavji NM**, Kozik AJ, Holehouse AS, Pejaver V, Symmons O, Filho AWB, Haage A. (2019). Insights from a survey-based analysis of the academic job market. https://www.biorxiv.org/content/10.1101/796466v1

Technical reports

2016 **Jadavji NM**, Adi MN, Corkery TC, Inoue J, Van Benthem, K. The 2016 Canadian National Postdoctoral Survey Report: An Emerging Shadow Workforce. Canadian Association of Postdoctoral Scholars-L'Association Canadienne de Stagiaires Post-doctoraux.

Research Topics

2026 Brain Metabolism and its Implications for Neurological Disease. *Frontiers in Neuroscience*
Guest Editors: Kristian T, **Jadavji NM**
https://www.frontiersin.org/research-topics/81222/brain-metabolism-and-its-implications-for-neurological-diseases

2026 Women's Special Issue Series: Nutrients. *Nutrients*
Guest Editors: Vieira-Potter V: **Jadavji NM**
https://www.mdpi.com/journal/nutrients/special_issues/R223R1QF16

2025 Maternal Diet, Epigenetic Mechanisms and Metabolic Programming. *Nutrients*
Guest Editors: **Jadavji NM**, Krzeczkowski J
https://www.mdpi.com/journal/nutrients/special_issues/E0YZJC83Z7

2025 Healthy Ageing and Brain Health, *Scientific Reports*
Editors: Rita-Baslistreri C, **Jadavji NM,** Mazza V
https://www.nature.com/collections/jjghdjgaec/guest-editors

2024 Nutrition and Neurobehaviors. *Frontiers in Nutrition*
Guest Editors: Begdache L, Aslan Cin NN, **Jadavji NM**
https://www.frontiersin.org/research-topics/59572/nutrition-and-neurobehaviors

2022 Women in Nutrition and Brain Health. *Frontiers in Nutrition*
Topic Editors: Hogervorst E, Haskell-Ramsay C, **Jadavji NM**
https://www.frontiersin.org/research-topics/27753/women-in-nutrition-and-brain-health

2021 Reproducibility in Neuroscience. *Frontiers in Integrative Neuroscience*
Topic Editors: **Jadavji NM**, Haelterman NA, *Sud R*, Antonietti A
https://www.frontiersin.org/research-topics/26709/reproducibility-in-neuroscience

2020 The role of epigenetics in neuropsychiatric disorders. *Frontiers in Molecular Neuroscience*
Topic Editors: Shirinian M, Chen C, Ushida S, **Jadavji NM**
https://www.frontiersin.org/research-topics/16896/the-role-of-epigenetics-in-neuropsychiatric-disorders

Undergraduate Peer Reviewed Publications

2019 *Daneff MA*, **Jadavji NM** The role of synaptic plasticity in the pathophysiology of cocaine addiction. *Journal of Young Investigators.* 37:33-38. doi:10.22186/jyi.37.4.33-38. *Nominated Best of JYI.

2019 *Radhakrishnan A*, **Jadavji NM*** The effects of vascular cognitive impairment on the thickness of the granular cell layer of the dentate gyrus within the hippocampus in a mouse model. *Journal of Student Science, and Technology*. 11: 16-21. doi: 10.13034/jsst.v11i1.273

2019 *Keerthi P*, **Jadavji NM**. B-vitamin and choline supplementation changes the ischemic brain. *Journal of Young Investigators.*36: 44-49. *Nominated Best of JYI.

2018 *Lam K,* **Jadavji NM**. Seeking Happiness: Understanding the mechanism of mixing music and drugs. *Journal of Young Investigators*. 34(5): 31-38. doi:10.22186/jyi.34.5.31-38

2017 *El Koussy M*, **Jadavji NM**. Therapeutic potential of optogenetic treatment for Individuals with Multiple Sclerosis. *Journal of Young Investigators*. 33(4); 15-20. doi: 10.22186/jyi.33.4.77-82 *Nominated Best of JYI.

2017 *Milani CM*, **Jadavji NM**. Chronic traumatic encephalopathy: connecting mechanisms to diagnosis and treatment. *Journal of Young Investigators*. 33(4); 21-23. doi: 10.22186/jyi.33.4.83-86. *Nominated Best of JYI.

2017 *Mau KJ*, **Jadavji NM**. A new perspective on Parkinson's disease: pathology begins in the gastrointestinal tract. *Journal of Young Investigators*. 33(4); 1-8. doi:10.22186/jyi.33.4.64-70.

2017 *McIntosh A*, **Jadavji NM**. Application of neuroscience principles for evidence-based design in architectural education. *Journal of Young Investigators*. 33(4); 9-14. doi:10.22186.33.4.71-76.

2016 *Owens G*, Smith PD, **Jadavji NM***. Neurogenesis Unchanged by MTHFR Deficiency in Three-Week-Old Mice. *Journal of Young Investigators*. 31(6); 39-43. doi: 10.22186/jyi.31.6.39.

2006 **Jadavji NM***, Armstrong-Esther Chris. A 21st century epidemic: childhood obesity in north America. *Journal of Young Investigators.* 15 (2): E-publication.

2006 **Jadavji NM***, Foroud A, Whishaw IQ, Metz GA. Silencing Huntington's chorea: is RNA interference a potential cure? *Impulse an Undergraduate Journal for Neuroscience*. 1: 1-13.

Extramural Funding

2026-31 Project: Collaborative Research: Understanding Career Entry into Biomedical Faculty Roles
Principal Applicant, $189,075; Co-Principal Applicant, $1,058,613. National Science Foundation. Grant #: 2600059 (SIU)

2026 Project: Understanding the impact of age and methylenetetrahydrofolate reductase on climbing behavior in a *Drosophila melanogaster* model. (Student: Lillian Schuler)
Supervisor, $250 USD
Journal of Young Investigators Undergraduate Grant

2026 Project: Determining the role of sex and dietary vitamin B12 supplementation on motor function post ischemic stroke (Student: Elizabeth Pineda)
Supervisor, $250 USD
Journal of Young Investigators Undergraduate Grant

2025 Project: Reduced levels of Methylenetetrahydrofolate reductase impact mortality and climbing behavior in *Drosophila melanogaster*
Principal Applicant, $2,000 USD. GENEWIZ Grants Program

2025-26 Project: Ad Hoc – Interfaces in Science: Quantitative analysis of the faculty job market

Co-Principal Applicant, $13,000 USD. Burroughs Wellcome Fund. Grant #: 11586063

2025-27 Project: Evaluating the impact of increasing dietary intake of vitamin B12 on ischemic stroke outcomes
Principal Applicant, $300,000 USDA, Diet, Nutrition and the Prevention of Chronic Disease National Institute of Food and Agriculture, Grant Number: 2025-67018-44947

2025 - 28 Project: Educating Biomedical Researchers on Scientific Design, Strengthening Inferences, and Interpretation.
Principal Applicant, $275, 999 USD, NIH NINDS Materials to Enhance Training in Experimental Rigor (METER) Grant Number: 1UE5NS144228-01

2025 - 26 Project: Evaluating the Impact of Increasing Dietary Intake of Vitamin B12 on Ischemic Post-Stroke Outcomes in Aged Female and Male Mice, $35,000 USD
Principal Applicant, Nathan Shock Center of Excellence in Basic Biology of Aging (Jackson Laboratory)

2025 Project: The role of methylenetetrahydrofolate reductase deficiency on hypoxia outcomes in a *Drosophila melanogaster* model (Student: Alek Abell)
Supervisor, $250 USD
Journal of Young Investigators Undergraduate Grant

2025 Project: Characterizing the impact of methylenetetrahydrofolate reductase deficiency and hypoxia on climbing behavior in a *Drosophila melanogaster* model (Student: Nora Jones).
Supervisor, $250 USD
Journal of Young Investigators Undergraduate Grant

2024 -25 Project: Ad Hoc – Interfaces in Science: Qualitative analysis of biomedical science postdocs on the faculty job market
Co-Principal Applicant, $13,500 USD. Burroughs Wellcome Fund. Grant #: 1417417

2023 Project: Reproducibility for Everyone Workshop.
Co-Principal Applicant, $1500 USD. Starter Culture Microgrant, Genetics Society of America.

2023-26 Project: Exploring the Unknown: The Impact of Maternal Dietary Contributions of One-Carbon Metabolism on Offspring Vasculature, Principal Applicant, $225,000 USD. RFGA NO. RFGA2022-010 Arizona Department of Health Sciences. Arizona Biomedical Research Centre.

2021-22 Project: “Faculty Job Market Research,” Burroughs Wellcome Fund, Co-Principal Applicant, $43,700 USD. Grant Number: 1022092

2020-22 Project: “Identification of developmental factors involved in ischemic stroke outcomes in adulthood and old age,” American Heart Association Research Enhancement Award (AIREA) and COVID-19 Supplement, Principal Applicant, $187,735.00, Grant Number: 20AIREA35050015.

2016-17 Project: “Canadian Association of Postdoctoral Scholars 2016 National Survey Grant,” Burrough’s Wellcome Fund, Principal Applicant, $5000 USD

Intramural Funding

2020-21 Project: “Identification of developmental factors involved in ischemic stroke outcomes in adulthood and old age,” Arizona Alzheimer’s Consortium. Principal Applicant, $8510 USD.

2015-17 Project: “Impact of methylenetetrahydrofolate reductase deficiency on vulnerability to stroke in a mouse model,” Carleton University Development Grant, Co-Applicant, $9600 CDN

Trainee Funding

2017-18 Project: “The impact of methylenetetrahydrofolate reductase (MTHFR) deficiency in a mouse model of Parkinson's disease,” Canadian Institutes of Health Research (CIHR) Master’s Award, Co-Supervisor, $17,500 CDN

2017 Project: “Impact of MTHFR deficiency on cell viability and oxidative stress in astrocytes,” Natural Sciences and Engineering Research Council (NSERC): Undergraduate Student Research Award, Undergraduate, Principal Applicant, $4500 CDN

2016 Project: “Impact of MTHFR deficiency on neuronal mechanisms,” Natural Sciences and Engineering Research Council (NSERC) Undergraduate Student Research Award, Principal Applicant, $4500 CDN

Fellowship Funding

2015-17 Project: “Impact of MTHFR deficiency on neuronal and astrocyte mechanism,” National Science & Engineering Research Council (NSERC), Principal Applicant, $90,000 CDN. *Application Ranked 4/69 for Cellular and Molecular Biology Competition

2016-17 Project: “Impact of genetic and dietary deficiencies in folate metabolism on stroke in a female mouse model”, Council of Ontario Universities Postdoctoral Women’s Health Scholars Fellowship, Principal Applicant, $45000 CDN

2013-16 Project: "Evaluation of folate metabolism on functional behavioral assessment and mechanism in a animal model of Vascular Cognitive Impairment," Fonds de la recherché en santé Québec (FRSQ), Principal Applicant, $135,000 CDN

RECOGNITIONS & HONORS

2026 Together Everyone Achieves More in Science Leadership Training Program
2026 Presidential Recognition Service Award, Graduate Women in Science
2026 Lonnie Russell Undergraduate Research Award, Southern Illinois University (Awarded to Nora Jones)
2026 Research Enriched Academic Challenge (REACH) Award, Southern Illinois University (Awarded to Quentin Pedtke)
2026 Susan C. Thrasher Undergraduate Research Award, Southern Illinois University (Awarded to Lillian Schuler, Undergraduate Student)
2026 Chandrashekar Travel Award, Division of Physiology, Southern Illinois University (Awarded to Alek Abell and Nora Jones, Undergraduate Students)
2026 Undergraduate Student Travel Award, Genetics Society of America (Awarded to Alek Abell, undergraduate student)
2026 Gillian McDermott, 1st place for lightning presentation, School of Medicine, Southern Illinois University, 36th Annual Trainee Research Symposium
2026 University Nominee for 2026 Blavatnik National Awards for Young Scientists
2025 Completion of University of Minnesota Optimizing the Practice of Mentoring
2025 Completion of Glial Leadership: Research Management Mastery
2025 Competition of Building on Our Strengths and Talents: Early Career Faculty Development Program, Center for Human and Organizational Potential, School of Medicine, Southern Illinois University
2025 Scientific Reports Editor Distinction Award 2025: Editorial Contribution and Author Service Awards
2024 Mock Grant Winner, Bright Focus, Alzheimer's Fast Track
2024 Election to Fellow of the American Heart Association (FAHA)
2024 Acceptance to National Institutes of Aging Butler-Williams Scholars Program (Nafisa Jadavji)
2024 Outstanding Poster Presentation, Kenneth Saurez Research Day (Awarded to Siddarth Gunnala, Graduate Student)
2024 TAGC Attendance Support for Minoritized Scientists-NSF Rising Scientist Award (Awarded to Siddarth Gunnala, Graduate Student)
2023 Glial Research Leadership: Team Mastery Certification
2023 Jean E. Simmons Award for Science Education Excellence, Honorary Membership, Graduate Women in Science
2022 1st Place Basic Science Research Poster, College of Veterinary Medicine, Phi Zeta Research Day (Awarded to Lauren Hurley, Graduate Student)
2022 1st Place Research Oral Presentation, College of Veterinary Medicine, Phi Zeta Research Day (Awarded to Lauren Hurley, Graduate Student)

2022	Outstanding Research Award for Graduate Student (Awarded to Jesse Jauhal, Graduate Student)
2022	2021 Outstanding Associate Editor, *Frontiers in Nutrition*
2019	Publons Top Reviewer in Neuroscience and Behavior 2018-19
2018	2nd Place Aging and Chronic Disease, Emerging Leaders in Nutrition Science Poster Competition, American Society for Nutrition Meeting, $200 USD
2018	Finalist, Postdoctoral Competition, American Society for Nutrition Meeting, $250 USD
2018	Completed Workshop on Leadership in Bioscience, Cold Spring Harbor Laboratory
2016	Howard Hughes Medical Institute Fellowship: Cold Spring Harbor Scientific Writing Course, $700 USD
2016	Best Poster Presentation Award (postdoctoral level), FASEB Folic Acid, Vitamin B12, and One-Carbon Metabolism Meeting, Steamboat Springs, $500 USD
2015	Young Investigator Award, 10th International Nutrition and Diagnostics Conference, Prague, CZ
2015	Best Poster Award, Post-doctoral Association, Postdoctoral Research Day, University of Ottawa, Faculty of Medicine, $100 CDN
2011	Honorable Mention, Canadian Institutes of Health Research National Poster Competition
2007	1st place poster award, Graduate Student Association Multidisciplinary Conference, University of Lethbridge, $100 CDN

Invited Seminars (from past 5 years)

2025

60. Sex-Specific Consequences of Maternal Choline and Folic Acid Deficiency: Differential Impact on Stroke Recovery in Offspring. (2025) 13th Annual International Conference on Health & Medical Sciences. Athens, Greece.

59. The impact of one-carbon metabolism and hypoxia on astrocytes (2025) Astrocyte Café, Virtual Seminar.

58. Reproducibility For Everyone (2025) Reproducibility Rounds. Stanford Program on Research Rigor and Reproducibility. School of Medicine Research Office. Stanford University (Virtual)

2024

57. Does maternal diet matter? The impact of maternal dietary deficiencies in folic acid and choline on offspring stroke outcomes. (2024) Brain and Cognitive Science Preseminar. Department of Psychology. Southern Illinois University, IL

56. Increasing Transparency in the Academic Job Market. (2024) Burroughs Wellcome Fund Fellows. Virtual. Online

55. The role of maternal dietary deficiencies in folic acid or choline during pregnancy and lactation on ischemic stroke outcome in male and female mice offspring. (2024) Department of Biomedical Sciences. University of North Dakota, ND

2023

54. Maternal dietary deficiencies in folic acid or choline during pregnancy and lactation impact ischemic stroke outcome in male and female offspring mice. (2023) Department of Nutrition. University of Nevada. Reno, NV.

53. Becoming a Rigorous Scientist: Doing Our Part to Change the Culture of Science: Becoming a Champion for Rigor. (2023). Professional Development Workshop. Society for Neuroscience. Washington, DC.

52. Maternal dietary deficiencies in folic acid or choline during pregnancy and lactation impact ischemic stroke outcome in male and female offspring mice. (2023). Department of Physiology. Southern Illinois University. Carbondale, IL.

51.The impact of maternal dietary deficiencies in folic acid or choline on male and female offspring ischemic stroke outcome. (2023). School of Nutrition. McGill University. Montreal, QC. Canada

50. Identification of developmental factors involved in ischemic stroke outcomes in adulthood and old age. (2023). Department of Chemistry and Biochemistry. Northern Arizona University. Flagstaff, AZ,

49. The mechanisms of dietary vitamin B12 deficiency on worse ischemic stroke outcome using a mouse model. (2023). Department of Nutrition sciences. Purdue University. West Lafayette, IN.

2022

48. The impact of dietary vitamin B12 deficiencies on ischemic stroke outcome using a mouse model. (2022). Department of Human Biology/Nutrition Science Program. University of Wisconsin Green Bay.

47. Identification of developmental factors involved in ischemic stroke outcomes during adulthood using a mouse model system. (2022). Department of Nutrition Seminar. University of Nevada, Reno. Virtual Seminar

46. Does nutrition impact ischemic stroke outcome? (2022) Queen's University. Virtual Seminar.

45. Does nutrition impact ischemic stroke outcome? The role of dietary vitamin B12 deficiencies on ischemic stroke in a mouse model. (2022). Science Live Stream. Virtual Seminar. https://www.youtube.com/watch?v=jJA8lzak8as&feature=youtu.be

Select Oral Presentations (from past 5 years)

2025 **Jadavji NM** (2025) Inclusion of Female and Male Mice in Preclinical Ischemic Stroke Studies: Findings from Nutritional Deficiencies in Vitamin B12. Graduate Women in Science National Meeting. St. Louis, IL, USA.

2024 Joshi S, McKee A, Ille S, Beach TG, Serrano GE, **Jadavji NM** (2024). Vascular dementia results in increased levels of methylenetetrahydrofolate reductase female patients and changed gene expression of GFAP and myelin-based protein in cortical brain tissue of elderly. Abrazo Health Regional Research Meeting. Glendale, AZ. *Selected Oral Presentation

2024 Gunnala S; Harrison A; Juba A, Ashcraft P, Bottiglieri T, Buhlman LM; **Jadavji, NM** (2024). Folic acid over supplementation impacts health outcomes after hypoxia in male and female *Drosophila melanogaster*. Kenneth Suarez Research Day. Midwestern University. Glendale, AZ. *Selected Oral Presentation

2023 *Burrows P, Dhillon H, Covaleski A, Manfredi L*, Beach TG, Serrano GE, **Jadavji NM** (2023) Ischemic stroke increases levels of one carbon enzymes, the folate receptor, and choline metabolism in post-mortem male and female brain tissue. Arizona Physiological Society Meeting. Glendale, AZ *Selected Oral Presentation

2022 Pull K, Folk R, Gusek B, Esfandiarei M, **Jadavji NM**. Maternal dietary choline deficiencies reduce cerebral blood flow in three-month-old female mouse offspring following ischemic stroke to the sensorimotor cortex. American Society for Nutrition Annual Meeting (Virtual**)**

Select Abstracts (Poster presentations from past 5 years)

109. *Dhillon HS, Covleski A,* **Jadavji NM**. (2023). Quantifying Levels of One Carbon (1C) Metabolites in Post-Mortem Ischemic Stroke and Control Human Brain Tissue. Arizona Osteopathic Medical Association. Phoenix, AZ.

108. *Yaliko A, Marella P, Coonard S,* **Jadavji NM.** (2023). The Impact of One-Carbon Metabolism deficiency and supplementation on hypoxia in primary neurons. Arizona Osteopathic Medical Association. Phoenix, AZ.

107. *Joshi SM,* **Jadavji NM.** (2023). The Role Of Dietary B-vitamin Supplementation On Traumatic Brain Injury (TBI) Outcome. Abrazo Health Regional Research Meeting. Glendale, AZ.

106. **Jadavji NM**. (2023) The impact of dietary folic acid supplementation and hypoxia on health outcomes in wild-type Drosophila melanogaster. Genetics Society of America, Drosophila 2023. Chicago, IL

105. **Jadavji NM,** Pull K, Folk R, *Kang J, Jackson S*, Gusek B, Esfandiarei M Maternal Dietary Choline Deficiencies Reduce Cerebral Blood Flow in Three-Month-Old Female Mouse Offspring Following Ischemic Stroke to the Sensorimotor Cortex. American Heart Association: International Stroke Meeting. Dallas, TX (Virtual)

104. *Marella P, Coonrod S,* **Jadavji NM**. Folic acid or choline supplementation to primary neuronal cells increases viability after hypoxia. AZ Physiological Society Meeting. Scottsdale, AZ, USA.

103. *Hurley L, Clementson M, Coonrod S, Bennett C, Pull K, Pascual A*, Wasek B, Bottiglieri T, Malysheva O, Marie A. Caudill MA, **Jadavji NM** (2022) Maternal dietary deficiencies during pregnancy and lactation in folic acid or choline impact stroke outcome in 3-month-old mouse offspring. FASEB: The Folate, Vitamin B12, and One-Carbon Metabolism Conference. Asheville, NC, USA

102. *Coonrod S*, **Jadavji NM**. (2022) The impact of maternal dietary deficiencies in folic acid and choline on offspring neuronal function after hypoxia. Experimental Biology. Philadelphia.

101. *Clementson M, Hurley L, Coonrod S, Bennett C, Pull K, Pascual A*, Wasek B, Bottiglieri T, Malysheva O, Marie A. Caudill MA, **Jadavji NM** (2021) Maternal dietary deficiencies in folic acid or choline impact stroke outcome in 3-month-old male and female mouse offspring. AZ Physiological Society Meeting. Midwestern University.

100. *Poole J, Pascual AS*, North S, Weissig V, Gu H, **Jadavji NM.** (2021). The role of vitamin B12 deficiency on stroke outcome and mechanisms in old-aged female mice. Arizona Alzheimer's Scientific Conference. Tuscon, AZ.

99. *Bennett C*, Green J, Ciancio M, Goral J, Pitstick L, Pytynia M, Meyer A, *Kwatra N*, Jadavji NM. (2021). Dietary folic acid deficiency impacts hippocampal morphology and cortical acety lcholine metabolism and apoptosis in a sex dependent manner in adult male and female mice. Organization of Sex Differences Meeting. Virtual

98. *Yahn GB*, Wasek B, Bottiglieri T, **Jadavji NM** (2021) Vitamin B12 deficiency impairs balance and coordination after photothrombotic damage to the sensorimotor cortex in adult male and female mice after ischemic stroke. American Heart Association. International Stroke Meeting. (Virtual meeting)

Coverage of Research

2026 Ferreira J. Effects of dietary folic acid in flies after hypoxia. Lab Animal, 55:7

2025 Is too much folic acid a bad thing for some? https://www.nutraingredients-usa.com/Article/2025/07/22/can-folic-acid-detrimentally-impact-cardiovascular-health/

2024 Women are better than men at science job interviews.

https://www.nature.com/articles/d41586-024-03107-9

2024 An updated and expanded characterization of the biological sciences academic job market https://shorturl.at/mRuEz

2024 Impact of Maternal Diet on Offspring Blood Flow https://shorturl.at/auJR2

2022 Field Knowledge, Journal of Young Investigators https://www.youtube.com/watch?v=t7Xr3ra4WZ8

2020 Getting your professorship. https://www.thenakedscientists.com/articles/interviews/getting-your-professorship?fbclid=IwAR2BiN5brm-zDJdDBX6hLsGYRm6nxC782fkf0ZpkPYWoqRSub8I1DF-0vKk

2020 Powell K. Dauting but doable: job searching after a postdoc. https://www.sciencemag.org/features/2020/08/daunting-doable-job-searching-after-postdoc?fbclid=IwAR2kb3SIRyQML-n6OHcxJ8DeUF3buWQthAo8zMUx_IlVHEIq-qI2xU0psoA

2020 Notman N and Woolston. Fifteen to one: how many applications it can take to land a single academic job offer. https://www.nature.com/articles/d41586-020-02224-5?fbclid=IwAR0v93PIuW_cOjZuV4TN9Y81Yl9rZDpLrATToKejRH7ijMpvxFY0bHfzdyM

2020 Smith, C The important of informational interviews. https://www.insidehighered.com/advice/2020/06/01/given-uncertainty-about-faculty-hiring-fall-job-seekers-should-actively-seek?fbclid=IwAR2wuRPjqTTXzU3oUn95L_V5TNhBSAj6ORq3iEXoVW8aUDlm4tUVOh-5Flc

2019 Miller, PC Research offers tips on job hunting in academia. http://blogs.und.edu/und-today/2019/10/job-hunting-in-academia/

2019 Reinero, D.The path to professorship by the numbers of why mentorship matters https://socialsciences.nature.com/users/325112-diego-a-reinero/posts/55118-the-path-to-professorship-by-the-numbers-and-why-mentorship-matters

2019 Conroy, G. How to land a faculty job. https://www.natureindex.com/news-blog/how-to-land-a-faculty-job

2019 Coates J, Dey G, Davla S, Kitaoka M. Shining a spotlight into the black box of the academic job market. https://prelights.biologists.com/highlights/insights-from-a-survey-based-analysis-of-the-academic-job-market/

2017 Abdelwahab A. Eating your green may be good for your brain. Metro News Ottawa. http://www.metronews.ca/news/ottawa/2017/08/13/eating-your-greens-may-be-good-for-your-brain.html

2017 Menayang A. Choline and vitamin B supplementation may improve post-stroke brain function. https://www.nutraingredients-usa.com/Article/2017/07/31/Choline-vitamin-B-supplementation-may-aid-post-stroke-brain-function

TEACHING AND SUPERVISION

Southern Illinois University, Team Taught Courses

a. MBBS 500: Introduction to Scientific Communication (Fall 2025, 2026)
b. MBBS 501: Seminar/Professional Training (Fall 2025, Spring 2026, Fall 2026)
c. MBBS 501: BMS Lab meeting and Student Presentations (Spring 2026, Fall 2026)
d. SIU School of Medicine Resource Sessions: Endocrine, Reproductive, and Gastrointestinal Unit (2026)

Midwestern University, Team Taught Courses

Molecular Cell Biology (Fall 2020, n = 7 lectures)
Molecular Cell Biology (Fall 2021, n = 7 lectures)
Molecular Cell Biology (Fall 2022, n = 8 lectures)
Molecular Cell Biology (Fall 2023, n = 7 lectures)
Graduate Student Seminar (Fall 2019)
Graduate Student Seminar (Fall 2020)
Graduate Student Seminar (Fall 2021)
Graduate Student Seminar (Spring 2022)
Graduate Student Seminar (Winter 2022-2023)
Neuroscience (Spring 2020, n = 5 lectures)
Neuroscience (Spring 2021, n = 8 lectures)
Neuroscience (Spring 2022, n = 11 lectures)
Neuroscience (Spring 2023, n = 11 lectures)
Journal Club (Summer 2021)
Journal Club (Summer 2022) *Course Director
Journal Club (Summer 2023) *Course Director
Journal Club (Winter 2024) *Course Director
Research Methods (Fall 2021, n = 1 lecture)
Research Methods (Fall 2022, n = 2 lectures)
Advanced Topics I: Science Communication (Fall 2022) *Course Director

Public Health and Nutrition Content (Summer 2021, n = 1 lecture)
Application of Precision Medicine to Neurological Disease (Summer 2022, n = 4 lectures)

Carleton University, Sole Instructor

NEUR 1202 Introduction to the Neuroscience of Psychiatric Diseases
The Human Microbiome and How It Affects Health, Learning in Retirement
NEUR 4905 Honours Workshop, Department of Neuroscience

What is the brain, how does it work and what goes wrong when it gets sick? Enrichment Programs
How Nutrition Changes the Aging Brain, Learning in Retirement
Ontario Online Research CO-OP
Impact of Vitamins and Nutrients on Neurological Function, Learning in Retirement
NEUR 4907 Honours Thesis, Department of Neuroscience
How what we eat affects our brain, Enrichment Programs
The Brain, Stress and Disease, Learning in Retirement
Nutrients on Neurological Function, Learning in Retirement

University of Ottawa, Sole Instructor
Medical Research Grant Workshop, Centre for University Teaching

Charité Medical University Berlin, Sole Instructor
Homocysteine and Neurological Function

McGill University, Laboratory Instructor
Principles of Organismal Biology, Fall 2012
Cell and Molecular Biology, Winter 2011 and 2012

Teaching Assistant

McGill University and University of Lethbridge
Neural Basis of Behavior, Fall 2011
Essential Biology, Fall 2009 and 2010
Basic Genetics, Winter 2009
Brain, Psychiatric and Neurological Diseases, Spring 2008
Contemporary Problems in Brain and Behaviour and Cognitive Science, Fall/Spring 2008
Child Development, Fall 2007
Introduction in Biology, Spring 2007
Research Methods in Neuroscience, Fall 2006

Supervisory and Mentoring Experience

Table 1. Number and classification of students supervised by Nafisa M. Jadavji since starting her independent research group in July 2019

	PhD	Medical	Dental	Pharmacy	Veterinary	Undergraduate	Highschool
Year							
2019-2020		2			1		
2020-2021		3	1	1	2		
2021-2022		3	2	0	2		
2022-2023		6	1	1	1	1	1
2023-2024		5	1		1		
2024-2025		1				4	1
2025 - 2026						5	

Postdoctoral Scholars Advised

2016 Dr. Kathleen Van Benthem, PhD, Canadian National Postdoctoral Survey Report: An Emerging Shadow Workforce. Canadian Association of Postdoctoral Scholars-L'Association Canadienne de Stagiaires Post-doctoraux.

Graduate Students Committee Chaired

2022 – 2024 Mr. Siddarth Gunnala, B.Sc., Master of Biomedical Sciences, Thesis: Understanding functional outcomes of hypoxia associated with over-supplementation of folic acid in *Drosophila Melanogaster*

2020 - 2022 Mr. Jesse Jahual, B.Sc., Master of Biomedical Sciences, Thesis: Maternal dietary deficiencies in one-carbon metabolism during early neurodevelopment result in sex differences after ischemic stroke in middle-aged offspring

2019 - 2021 Ms. Gyllian Yahn, BSc., Master of Biomedical Sciences, Thesis: Role of Vitamin B12 in Ischemic Stroke Outcome

2015 - 2018 Ms. Lauren Murray, M.Sc., Thesis: The impact of methylenetetrahydrofolate reductase (MTHFR) deficiency in a paraquat mouse model of Parkinson's disease

2015 - 2017 Mr. Josh Emmerson, M.Sc., Thesis: Impact of a MTHFR-deficiency on focal ischemic damage to the sensorimotor cortex in aged mice *Currently PhD student at McGill University

2014 Mr. Kevin Dam, M.Sc., Thesis: The effect of chronic hypoperfusion and folic acid deficiency in a murine model of methylenetetrahydrofolate reductase deficiency

2013 Ms. Abinaya Ravishankar, M.Sc., Thesis: Effects of folic acid deficiency induced hyperhomocysteinemia in a mouse model of chronic hypoperfusion.

Graduate Committee Participation

<u>*Current*</u>

Sana Rahman	PhD	Southern Illinois University	2026

<u>*Alumni*</u>

Sonia Abarzak	MBS	Midwestern University	2024
Ryan Feser	MBS	Midwestern University	2024
Mitchell Haddock	MBS	Midwestern University	2023
Mary Eunice Barrameda	MBS	Midwestern University	2023
Taylor Pychewicz	MBS	Midwestern University	2022
Kimberly Drinkwater	MBS	Midwestern University	2021
Katie Houlihan	MBS	Midwestern University	2020

Teaching Professional Development

2019 – 2024 Teaching and Learning Seminar Series, Midwestern University

2015 – 2019 Teacher Training workshops, University of Ottawa

2015 Certificate in University Teaching, Education Development Center, Carleton University

2010 McGill University Learning to Teach Day workshop Attendance

2008 McGill University Tomlinson Project in University-Level Science Education (T-PULSE) workshop

2006 – 08 University of Lethbridge Centre for Advancement of Excellence in Teaching and Learning

SERVICE TO PROFESSION

Academic service

Editorial Board

Scientific Reports (2022 – present)
Nutrients (2025 – present)

Associate Editor

Journal of Stroke and Cerebrovascular Diseases (2025 – present)
BioMed Research International (2025)
Recent Progress in Nutrition (2024 – present)
PLoS One (2024 – present)
Heliyon – Cell Press (2024 – 2025)
Frontiers in Molecular Biosciences: Micronutrient Biology (2023 – present)
Frontiers in Nutrition (2020 – present)
Bio-protocols (2019 – present)

Review Editor

Frontiers in Neuroenergetics, Nutrition and Brain Health (2018 – present)
Frontiers in Nutrition and Brian Health (2020 – present)
Metabolites (2020 – present)
Journal of Integrative Neuroscience (2020 – present)

Journal Reviewer

Neuroscience; Journal of Cerebral Blood Flow and Metabolism; Journal of Molecular Medicine; Neurotoxicity Research; International Journal of Pediatrics; Cellular and Molecular Neurobiology; Neural Regeneration Research; Science Reports; Journal of Advances in Biotechnology; Therapeutics and Clinical Risk Management; The Scientific Pages of Translational Neuroscience; Vessel Plus; Neuropsychiatric Disease and Treatment, Nutrition Research, Behavioral Brain Research, Nutritional Neuroscience; Neurological Disorders and Stroke; Brain Research Bulletin; Nutrients; PLoS One; Current Eye Research, Clinical Interventions in Aging; Toxicology Mechanisms and Methods; Naunyn-Schmiedeberg's Archives of Pharmacology, Bio-Protocols (protocols), Journal of Neuroscience, FASEB, Cancer Letters, The Open Journal of Biology, Science Magazine, iScience

Preprint

bioRixv (affiliate member): 2019 - present

Grant reviewer

- American Heart Association: Bridge Transformational Project Award Committee: 2026
- American Heart Association: Career Development Award Committee Member: 2021, 2022, 2023, 2024

- American Heart Association: Transformation Project Awards Committee Member: 2022, 2024, 2025
- American Heart Association: Pre and Postdoctoral Fellowship Awards Committee Member: 2022, 2023, 2024, 2025, 2026
- Canadian Institutes of Health Research (Pharmacology and Toxicology (PT)): 2025
- National Institutes of Health, Early Career Researcher Program: 2020
- National Sciences Foundation: 2020, 2021, 2022, 2023, 2024, 2025, 2026
- La Caixa Banking Foundation: Health Research Proposals: 2020, 2021
- National Science Centre Poland: 2019
- Graduate Women in Science Fellowship: 2019, 2020, 2021, 2023, 2024, 2026
- Centre for Aging + Brain Health Innovation: 2017, 2018, 2019

Abstract Reviewer

- American Nutrition Society Annual Meeting: 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025
- Gerontological Society of America Annual Meeting: 2025
- University of Ottawa, Scinapse Undergraduate Science Case Competition: 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026

Board Memberships

- Early Career Leadership Program, 2024 – 2026
  Communication and Outreach
  Genetics Society of America
  Advisor
- F1000 Health Open Research, 2023 – 2026
  Advisor
- Graduate Women in Science, 2022 – 2026
  Past President, 2025 - 2026
  President, 2024 - 2025
  President Elect, 2023 - 2024
  Vice-President, 2022 – 2023
- American Society for Nutrition Early Career Nutrition Interest Group, 2022 – 2024
  Events Chair
- Reproducibility for Everyone (R4E), 2020 – present
  Chair, Advisory Board
- Academic Parity, 2020 - present
  Advisory Board Member
- Journal of Young Investigators (JYI), Board of Director (BoD) 2011 - present
  Board Member, 2011 – present
  Finance Chair, 2020 – present
  Vice Chair 2013-14, 2022 – 2024
  Chair, 2014 – 2021, 2024 – present
  Executive Board Member 2004-2008
- Canadian Society for Molecular Biosciences, 2017 - 2019
  Board Member

Chair of Trainee Committee
Member of Canadian Association of Neuroscience Advocacy Committee

- Canadian Association of Postdoctoral Scholars, 2015 - present
  Vice President External, 2015-17
  Chair of 2016 National Postdoctoral Survey, 2015 – 17
  Community Leader, 2017 – 2019
- Scientific Board, European Students' Conference, 2014-15
  Board member
- University of Lethbridge, Board member, 2007-08
  Board of Directors

Science Outreach

- Genetics Society of American, Conference Childcare Committee: 2023
- ASAPBio Fellow: 2021
- Faculty Job Market Survey: 2018 – present
- Skype a Scientist: 2019 – present
- Letters to Pre-Scientist: 2019 – 2020
- *eLife* ECRLife Taskforce: 2020
- *eLife* Community Ambassador: 2019 – 2020
- Canadian Society for Nutrition, Mentor: 2019, 2020, 2021
- American Society for Nutrition Emerging Leaders Poster Session Judge: 2019, 2024
- The New York Academy of Sciences, 1000 Girls, 1000 Futures: 2019, 2020
- American Society for Nutrition, Blogger; Mentor; Member, Nutrient, and Gene Research Interest Group, 2018 – 2019
- Society for Neuroscience: Brain Awareness Week Presenter: 2011, 2015, 2016, 2017
- Let's Talk Science McGill University Chapter, Mentorship Coordinator, 2008-11

Committee work

- Physiology Graduate Admissions Committee: 2026 - present
- Physiology Search Committees: 2025-26
  - Instructor
  - Assistant Professor
- Physiology Resource Committee, Southern Illinois University, Carbondale, 2025 - present
- Physiology Seminar Committee, Southern Illinois University, Carbondale: 2024 – present
  Chair 2025-26
- Admission Committee, Biomedical Sciences, Midwestern University: 2019 - 2024
- Graduate Women in Science, Media Committee Member, 2018 – 2022, Fellowship Committee, 2018
- Research Committee, College of Graduate Studies, Midwestern University: 2021 – 2022
- Institutional Animal Care and Use Committee, Midwestern University: 2020 – 2021
- Elsevier Advisory Panel, 2014 - 2019
- Vivarium User Committee Member, Carleton University, 2017 - 2018
- Graduate Student Buddy System Mentor University of Ottawa, 2016 – 2019
- University of Ottawa Postdoctoral Association, Vice President External, Conference Organizing Committee, 2015-2017

- Mendeley Advisor, 2015 - present
- International Consortium of Research Staff Associations Outreach Committee Member, 2015-2016
- Berlin Institute of Health Young Science Initiative, Member, 2014- 2015
- NeurOnLine, Society of Neuroscience, Champion of Behavioural Neuroscience, 2011–2015
- Montreal Children's Hospital Research Institute, Student Seminar Coordinator, 2010-2012
- McGill University Human Genetics Student Society, Vice-President Communications, 2009-11; Chair of Human Genetics Organizing Committee (2010)
- McGill University Post Graduate Student Society, Council Graduate Student Support, Committee Member, 2008-2011
- University of Lethbridge, Graduate Students' Association President, Board of Governors Member, 2007- 2008

Community service

Volunteer, LiveWorkPlay! Ottawa, 2015 - 2019

Service Awards

Let's Talk Science Volunteer of the Month Award, 2008
Journal of Young Investigators Staff Member of the Month, 2008

Science Communication

2026 USDA funding supports SIU research linking nutrition and stroke recovery
https://www.siumed.edu/news/usda-funding-supports-siu-research-linking-nutrition-and-stroke-recovery

2025 My personal experience of having scientific research funded
https://jadavjilaboratory.academicwebsite.com/posts/4548-my-personal-experience-

2025 Jadavji Lab Turns 6! Reflections on Moving Institutions
https://jadavjilaboratory.academicwebsite.com/posts/4086-jadavji-lab-turns-6

2024 Increasing my scientific rigor
https://jadavjilaboratory.academicwebsite.com/posts/3457-increasing-my-scientific-rigor

2023 Meet Nafisa M. Jadavji, passionate about scientific research and mentoring
https://thefemalescientist.com/portrait/nafisa-jadavji-1/3251/meet-nafisa-m-jadavji-passionate-about-scientific-research-and-mentoring/

2023 Science Mom Journey
https://www.mothersinscience.com/journeys/nafisa-jadavji

2023 What Data Tells Us About Landing a Faculty Job.
https://www.insidehighered.com/opinion/career-advice/carpe-careers/2023/08/07/applicant-surveys-reveal-factors-landing-faculty-job#

2023 Jadavji Laboratory Turns 4: Celebrating accomplishments and reflecting on the future. https://www.jadavjilab.com/blog/jadavji-laboratory-turns-4-celebrating-accomplishments-and-reflecting-on-the-future

2023 Mentoring benefit for the mentor and mentee. https://www.jadavjilab.com/blog/mentoring-benefits-for-the-mentor-and-mentee

2022 A Neuroscientist's take: Going on maternity leave while being on the tenure clock https://www.jadavjilab.com/blog/a-neuroscientists-take-on-going-on-maternity-leave-while-being-on-the-tenure-clock

2021 The prevalence and impact of bullying on academics: summary of results from an international survey. https://www.jadavjilab.com/blog/the-prevalence-and-impact-of-bullying-on-academics-summary-of-results-from-an-international-survey

2021 Surviving my second year on the tenure track during a global pandemic. *Jadavji laboratory Blog.* https://www.jadavjilab.com/blog/surviving-my-second-year-on-the-tenure-track-during-a-global-pandemic

2021 Mannam S. Interview with Dr. Jadavji. Journal of Young Investigators. https://www.jyi.org/2021-june/2021/6/8/interview-with-dr-nafisa-jadavji

2020 Interview Narrative: Nafisa Jadavji, Assistant Professor. McGill University. Track Report Connect Exchange. http://tracemcgill.com/nafisa-jadavji/

2017 Powell K. Daunting but doable: Job searching after a postdoc. *Science Magazine*. https://www.sciencemag.org/features/2020/08/daunting-doable-job-searching-after-postdoc#

2020 Reflections on the first year of a tenure track job: learning to embrace chaos. *Jadavji laboratory Blog.* https://www.jadavjilab.com/blog/reflections-on-the-first-year-of-a-tenure-track-job-learning-to-embracing-chaos

2020 Kwarta N, Jadavji NM. How changes in our genes impact outcome after stroke. *Atlas of Science*. https://atlasofscience.org/how-changes-in-our-genes-impact-outcome-after-stroke/

2020 Using social media to enhance your scientific training and reducing social isolation. *Jadavji Lab Blog*. https://www.jadavjilab.com/blog/archives/04-2020

2018 Learning to teach in academia. *Jadavji Lab Blog*. https://www.jadavjilab.com/blog/archives/12-2019

2019 Bullying in academia: Tales from victims and a call to action. *ecrLife.* https://ecrlife.org/bullying-in-academia-tales-from-victims-and-a-call-to-action/

2019 Importance of building a network during postdoctorate training. *Jadavji Lab Blog.* https://www.jadavjilab.com/blog/archives/09-2019

2019 Respect the hustle: landing a tenure track job in 2019. *Jadavji Lab Blog*. https://www.jadavjilab.com/blog/respect-the-hustle-landing-a-tenure-track-job-in-2019

2019 CSMB-SCMB Slack Career Profile. New Principal Investigator

2019 Twitter Curating: STEM Squad, https://thestemsquad.org/

2019 Nutrition & Parkinson's disease: is there a link? *American Nutrition Society Blog.* https://nutrition.org/nutrition-parkinsons-disease-is-there-a-link/

2018 What role does nutrition play on vascular dementia? *American Nutrition Society Blog.* https://nutrition.org/what-role-does-nutrition-play-on-vascular-dementia/

2018 The role of maternal folic acid supplementation on offspring neurodevelopment. *American Nutrition Society Blog*. https://nutrition.org/the-role-of-maternal-folic-acid-supplementation-on-offspring-neurodevelopment/

2018 How what you eat affects your brain. *The Addictive Brain.* https://www.facebook.com/notes/the-addictive-brain/how-what-you-eat-affects-your-brain-nafisa-jadavji/1977391632292770/

2018 Nafisa's top ten tips for oral and poster presentations. *Journal of Young Investigators Blog*. https://www.jyi.org/blog/2018/6/11/nafisas-top-ten-tips-for-oral-and-poster-presentations

2018 How to choose a postdoc lab. *Graduate Women in Science EMPOWER*. https://mailchi.mp/gwis/how-to-choose-a-postdoc-lab?e=744f87f042

2018 How does nutrition impact stroke outcome? *American Nutrition Society Blog*. https://nutrition.org/how-does-nutrition-impact-stroke-outcome/

2018 Visitor of the Week: Nafisa Jadavji. *Current Exchange: A blog by Cold Spring Harbor Laboratory Meetings and Courses*. https://currentexchange.cshl.edu/blog/2018/4/visitor-of-the-week-53

2018 Folic acid during early brain development is important, but too much is not good. https://brainandlife.net/2018/03/22/folic-acid-during-early-brain-development-is-important-but-too-much-is-not-good/

2018 Inside the Petri Dish. *Animal Testing Podcast*. http://itpd.mprw.co.uk/2018/02/

2018 Women in S.T.E.M. Nafisa Jadavji, PhD: Her Careers and a few lessons learned. https://femstem.com/blog/2018/2/24/nafisa-jadavji-phd-her-career-and-a-few-lessons-learned-nafisa-jadavji

2017 Tip Box Team ABCam. 96 Tips. https://tipbox.abcam.com/

2017 Folic acid during early neurodevelopment is important, but too much is not good. https://womaninscienceblog.wordpress.com/2017/11/07/folic-acid-during-early-neurodevelopment-is-important-but-too-much-is-not-good/

2017 Food for thought. Canadian Institutes of Health Research celebrates Canada 150. http://www.cihr-irsc.gc.ca/e/50395.html

2017 Twitter Curating:
RealScientists, May. http://realscientists.org/2017/05/28/food-for-thought-literally-with-nafisa-jadavji/
Neurotweeps, April. https://neurotweeps.wordpress.com/2017/04/
Biotweeps, October. https://biotweep.wordpress.com/2017/10/08/091017-nafisajadavji/

2017 Homocysteine and Dementia: Impact of Nutrition on Neurodegeneration. *AlzScience Bog*. https://alzscience.wordpress.com/2017/04/22/homocysteine-and-dementia-impact-of-nutrition-on-neurodegeneration/#comments

2017 Women in STEM Profile. https://laurendrogos.wordpress.com/2017/03/14/nafisa-m-jadavji/

2007 Metz GA, **Jadavji NM**, Colwell KL, Perehudoff SK, Smith LK Stress accelerates neuronal degeneration and exaggerates motor symptoms in the rat model of Parkinson's disease. *Society for Neuroscience: Neuroscience 2007 Press Book*

2007 Ali F, Jadavji NM, Ong W, Pandey KR, Patananan AN, Parbhala HK, Yang CHT. Supporting Undergraduate Research. *Science*, 317: 42

2005 **Jadavji NM**, Kolb B, and Metz GA. Environmental enrichment modulates motor symptoms in a rat model of Parkinson's disease. *The Melorist*, p. 3.

2004 **Jadavji NM**, Kolb B, Diaz Heijtz R, Metz GA. Environmental enrichment modulates motor symptoms in a rat model of Parkinson's disease. *Society for Neuroscience: Neuroscience 2004 Press Book*.

Professional Organization Memberships

- Full Member, Sigma XI (Invited)
- Graduate Women in Science (Honorary Membership)
- American Aging Society
- American Heart Association

- International Society for Developmental Origins of Health and Disease (DOHaD) Society
- American Society for Nutrition
- Genetics Society of America
- Gerontological Society of America
- Organization for the Study of Sex Differences
- Society for Neuroscience
- World Stroke Organization