

**SARA MITCHELL MD FRCPC MPH
Neurologist**

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SUMMARY OF QUALIFICATIONS:

Dr. Mitchell is a practicing academic Staff Neurologist at Sunnybrook Health Sciences Centre and an Assistant Professor at the University of Toronto in the Division of Neurology in the Department of Medicine. She is also cross appointed as an Assistant Professor in the Department of Psychiatry. She completed five years of neurology residency at the University of Toronto and subsequently obtained subspecialty fellowship training from Massachusetts General Hospital and Harvard Medical School in cognitive and behavioural neurology and neuropsychiatry.

Dr. Mitchell has a busy academic clinical practice with a focus on complex brain disorders affecting affect, behaviour and cognition. She specializes in neurodegenerative and neuropsychiatric conditions such as neurodegenerative diseases, concussion and traumatic brain injury, and vascular disease.

Dr. Mitchell is very active in research and clinical teaching and has authored multiple peer-reviewed publications in journals including JAMA Neurology and the Canadian Medical Association Journal on topics including Cognitive impairment, neuropsychiatry and motor vehicle collisions. She is the director of the Brain Medicine Fellowship at the University of Toronto and the Cognitive Neurology educational rotation at Sunnybrook Health Sciences Centre.

She has been featured on CBC national television as a subject matter expert on traumatic brain injury and concussion, brain health, stroke, dementia, and Parkinson's disease. Dr. Mitchell has a master's degree in Public Health (MPH) from the Harvard School of Public Health and a defined interest in improving the quality of medical care delivery and pace of innovation for patients with complex brain disorders.

EDUCATION

Degrees

2014 Jul - 2016 May **Masters in Public Health (MPH), Clinical Effectiveness
Harvard T. H. Chan School of Public Health
Boston, Massachusetts, United States**

2006 Sep - 2009 Jun **MD, Doctor of Medicine**

McMaster University
Hamilton, Ontario, Canada

2001 Sep - 2005 Jun **BA, Bachelor of Arts with High Distinction, Honours Psychology Major, Philosophy Minor, McGill University**
Montreal, Quebec, Canada

EMPLOYMENT & TRAINING

Appointments

2019 Jul – present **Director, Brain Medicine Fellowship**
University of Toronto, Faculty of Medicine

2016 Jul - present **Assistant Professor, Division of Neurology**, Department of Medicine, Faculty of Medicine, University of Toronto, Toronto, Ontario, Canada

2020 Jan – present **Assistant Professor, Department of Psychiatry**
Faculty of Medicine, University of Toronto, Toronto, Ontario, Canada

2015 - present **Staff Neurologist, Neurology**, Department of Medicine, Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada

Postgraduate and Specialty Training

2014 Jul - 2015 Jun **Behavioural Neurology/Neuropsychiatry Fellowship, Harvard Medical School**, Massachusetts General Hospital, Boston, Massachusetts, United States

2009 Sep - 2014 Jun **Neurology Residency, University of Toronto**, Toronto, Ontario, Canada

PEER-REVIEWED PUBLICATIONS, ABSTRACTS AND POSTER PRESENTATIONS

Kapoor A, Bartha R, Black SE, Borrie M, Freedman M, Gao F, Herrmann N, Mandzia J, Ozzoude M, Ramirez J, Scott CJM, Symons S, Fischer CE, Frank A, Seitz D, Wolf MU, Verhoeff NPLJ,¹¹, Naglie⁶, William Reichman⁴, Mario Masellis^{1,3,4}, **Mitchell SB**, Tang-Wai DF, Tartaglia C, Kumar S, Polloc BG, Rajji TK, Finger E, Pasternak SH, ONDRI Investigators & Swartz RH. Structural Brain Magnetic Resonance Imaging to Rule Out Comorbid Pathology in the Assessment of Alzheimer’s Disease Dementia: Findings from the Ontario Neurodegenerative Disease Research Initiative (ONDRI) Study and Clinical Trials Over Past 10 Years. Journal of Alzheimer’s disease. Accepted Jan 20, 2020.

Cerebral perfusion changes in presymptomatic genetic frontotemporal dementia: a GENFI study. Mutsaerts HJMM, Mirza SS, Petr J, Thomas DL, Cash DM, Bocchetta M, de Vita E, Metcalfe AWS, Shirzadi Z, Robertson AD, Tartaglia MC, **Mitchell SB**, Black SE, Freedman M, Tang-Wai D, Keren R, Rogaeva E, van Swieten J, Laforce R, Tagliavini F, Borroni B, Galimberti D, Rowe JB, Graff C, Frisoni GB, Finger E, Sorbi S, de Mendonça A, Rohrer JD, MacIntosh BJ, Masellis M; GENetic Frontotemporal dementia Initiative (GENFI) . Brain. 2019 Apr 1;142(4):1108-1120.

Rapoport MJ, Chee JN, Carr DB, Molnar F, Naglie G, Dow J, Marottoli R, **Mitchell S**, Tant M, Herrmann N, Lanctôt KL, Taylor JP, Donaghy PC, Classen S, O'Neill D. An International Approach to Enhancing a National Guideline on Driving and Dementia. *Current Psychiatry Reports*. 2018 Mar 12;20(3).

Justin N. Chee PhD(c), MSc, Mark J. Rapoport MD, Frank Molnar MD, Nathan Herrmann MD, Desmond O'Neill MD, Richard Marottoli MD, **Sara Mitchell MD**, Mark Tant PhD 7, Jamie Dow MD, Debbie Ayotte MLIS, Krista L. Lanctôt PhD, Regina McFadden MSc, John-Paul Taylor PhD, Paul C. Donaghy PhD, Kirsty Olsen MSc, Sherrilene Classen PhD, Yoassry Elzohairy PhD, David B. Carr MD. Update on the Risk of Motor Vehicle Collision or Driving Impairment with Dementia: a Collaborative International Systematic Review and Meta-Analysis. *The American Journal of Geriatric Psychiatry*. 2017 Dec 15;25(12):1376-1390.

Gholipour T, **Mitchell S**, Sarkis RA, Chemali Z. The clinical and neurobehavioural course of Down syndrome and dementia with or without new-onset epilepsy. *Epilepsy & Behaviour*. 2017 Mar 12;68:11-16.

Mitchell SB, Lucente D, Larvie M, Cobos MI, Frosch M, & Dickerson BC. A 63-year-old Man With Progressive Visual Symptoms. *JAMA Neurology*. 2017 Jan;74(1):114-118.

Mitchell SB, Black, SE. Screening for mild cognitive impairment: If not now, when? *CMAJ*. 2016 Jan;188(1):15-6.

Goodman, DW, **Mitchell S**, Rhodewalt L & Surman C B H. Clinical Presentation, Diagnosis and Treatment of Attention- Deficit Hyperactivity Disorder (ADHD) in Older Adults: A Review of the Evidence and its Implications for Clinical Care. *Drugs Aging*. 2016 Jan;33(1):27-36.

Misch, M, **Mitchell SB**, Francis PL, Sherborn K, Caldwell CB, Ehrlich L, Lang AE, Black SE, Masellis M. Differentiating between visual hallucination free dementia with Lewy bodies and corticobasal syndrome on the basis of neuropsychology and single-photon emission computed tomography. *Alzheimer's Research & Therapy*. 2014 Dec 5;6(9):71.

Graham N.L., Tang-Wai D., Black S., Leonard C., Masellis M., **Mitchell S.**, Tartaglia M.C., Laird L., Rochon E. Patterns of performance on sentence repetition in 3 variants of Primary Progressive Aphasia. *Canadian Geriatrics Journal*. 2017 Nov;21(99). Graham N.L., Tang-Wai D., Black S., Leonard C., Masellis M., Mitchell S., Tartaglia M.C., Laird L., Rochon E. (2018) Patterns of performance on sentence repetition in 3 variants of Primary Progressive Aphasia. *Canadian Geriatrics Journal*, 21, 99. Conference Abstract: 9th Canadian Conference on Dementia, Toronto, Canada, November 2017.

Graham N.L., Tang-Wai D., Black S., Leonard C., Masellis M., **Mitchell S.**, Tartaglia M.C., Laird L., Rochon E. Patterns of performance on sentence repetition in 3 variants of Primary Progressive Aphasia. *Canadian Geriatrics Journal*. 2017 Nov;21(99). Graham N.L., Tang-Wai D., Black S., Leonard C., Masellis M., Mitchell S., Tartaglia M.C., Laird L., Rochon E. (2018) Patterns of performance on sentence repetition in 3 variants of Primary Progressive Aphasia. *Canadian Geriatrics Journal*, 21, 99. Conference Abstract: 9th Canadian Conference on Dementia, Toronto, Canada, November 2017.

Rapoport M, Chee JN, Carr D, Molnar F, Naglie G, Dow J, Marottoli, **Mitchell S**, Tant M, Herrmann N, Lanctôt KL, Taylor JP, Donaghy PC, Classen S, O'Neill. An International Approach to Enhancing a National Guideline on Driving and Dementia.

Patterns of Performance on sentence repetition in the 3 variants of primary progressive aphasia. Presenter(s): Graham N, Tang-Wai D, Black S, Leonard C, Masellis M, **Mitchell S**, Tartaglia MC, Laird L, Rochon E.

Presenter. Clinical and Imaging Predictors of Neuropsychiatric Symptomatology in Primary Progressive Aphasia. Minute madness platform and poster presentation, Alzheimer's Association International Conference (AAIC) annual meeting. Presenter(s): **Mitchell SB**, Hatling FB, Caso C, Xia C, Quimby M, Kelly K, Domoto-Reilly K, McGinnis S, Hochberg D & Dickerson BC.

Presenter. Developing a Dementia Care Pathway in Acute Care Hospital: A Review of the Literature and Implementation Strategy. Alzheimer's Association International Conference (AAIC) annual meeting. Presenter(s): **Mitchell SB**, Masellis M, Etchells E. Poster presentation.

Presenter. Driving with Dementia: A Collaborative International Knowledge Synthesis to Update Clinical Guidelines for Physicians. Alzheimer's Association International Conference (AAIC). Presenter(s): Chee, JN, Carr, D, Classen, S, Herrmann, N, Marottoli, R, **Mitchell, S**, O'Neill, D, Tant, M, Molnar, F, Marshall, S, Dow, J, Charlton, J, Ayotte, D, Hawley, C, Lanctot, K, McFadden, R, Rapoport, MJ. Poster presentation.

Presenter. GRN-related Frontotemporal Lobar Degeneration TDP43 Type A presenting as a case of Posterior Cortical Atrophy. American Academy of Neurology (AAN) 2015 annual meeting. United States. Presenter(s): **Mitchell SB**, Lucente D, Larvie M, Frosch M, & Dickerson BC. e-poster presentation.

Presenter. Clinical and Imaging Predictors of Neuropsychiatric Symptomatology in Primary Progressive Aphasia. American Neuropsychiatric Association (ANPA 2015) annual meeting. Presenter(s): **Mitchell SB**, Hatling FB, Caso C, Xia C, Quimby M, Kelly K, Domoto-Reilly K, McGinnis S, Hochberg D & Dickerson BC. platform presentation.

Presenter. Clinical and Imaging Predictors of Neuropsychiatric Symptomatology in Primary Progressive Aphasia. American Neuropsychiatric Association (ANPA) 2015 annual meeting. Presenter(s): **Mitchell SB**, Hatling FB, Caso C, Xia C, Quimby M, Kelly K, Domoto-Reilly K, McGinnis S, Hochberg D & Dickerson BC. poster presentation.

Presenter. Survival in Primary Progressive Aphasia: Comparison with bvFTD and FTD-ALS. American Academy of Neurology (AAN) 2015 annual meeting. Presenter(s): **Mitchell SB**, Caso C, Quimby M, Kelly K, Xia C, Ratti E, Domoto-Reilly K, McGinnis S, Hochberg D, Gunther J, Frosch M & Dickerson B C. poster presentation.

Presenter. Z Neuropsychiatric features of Down Syndrome with Alzheimer's-type dementia: A comparison of patients with and without seizures. American Neuropsychiatry Association (ANPA) 2015 annual meeting platform presentation. United States. Presenter(s): **Mitchell, SB**, Gholipour T, Sarkis R, El-Chemali.

Presenter. Unique clinicopathologic correlation in a case of Semantic variant Primary Progressive Aphasia. University of Toronto, Faculty Research Day. Toronto, Ontario, Canada. Presenter(s): **Mitchell, SB.**, Black, S., Rogaeva E., Bilboa J., Keith, J. Poster Presentation.

Presenter. Co-existing glioneuronal tauopathy as a potential explanation for semantic variant Primary Progressive Aphasia phenotype in FTLD-TDP43 Harmonized type A. American Academy of Neurology Conference. United States. Presenter(s): **Mitchell, SB.**, Black, S., Rogaeva E., Masellis, M., Bilboa J., Keith, J. Poster Presentation.

PEER-REVIEWED GRANTS

2018 - 2020 **Co-Investigator.** FOXY: A Phase 2 Clinical Trial of Intranasal Oxytocin for Frontotemporal Dementia. Lawson Health Research Institute/Canadian Institutes of Health Research (CIHR). PI: Finger, E. Collaborator(s): Masellis, M, Black SE, Lam B, Cheung V. 50,160 CAD. [Clinical Trials]

2017 - 2020 **Co-investigator** TIA and minor stroke Early evaluation And Management for Stroke prevention (TEAMS). AFP Innovation Fund. PI: Yu, Amy. Collaborator(s): R Swartz, D Gladstone, J Hopyan, M Boulos, Z Alsharafi, A Verma, S symons, N Ditzkowsky, E Etchells, L Casuabon, A Kiss. 100,000 CAD. [Grants]

Protocol designed to have high risk TIA and minor stroke patients get a CTA in the emergency room at Sunnybrook Hospital.

- 2017 - 2018 **Co-Investigator.** Ontario Neurodegenerative Disease Research Initiative (ONDRI). Ontario Brain Institute (OBI). Collaborator(s): Swartz R, Masellis M, Munoz D, Black SE, Zinman L, Strong M, Boulos M, Gladstone D, Herrmann N, Hopyan J, Izenberg A, Lam B, Singerman J. 708,750. [Grants]
- 2016 - 2020 **Co-Investigator.** A Phase 3 Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Study to Evaluate the Efficacy and Safety of Aducanumab (BIIB037) in Subjects with Early Alzheimer's Disease. Biogen Idec. PI: Black, S. Collaborator(s): Masellis, M. [Clinical Trials]
- 2016 - 2018 **Co-investigator** Non Invasive Identification of AB Plaques in Human Retina for the Diagnosis of Alzheimer's Disease. CQDM and Ontario Brain Institute (Brain Canada Strategic Partnership Grants Application). PI: Soucy JP. Collaborator(s): Sylvestre JP, Lesage F, Greenberg B, Arbour JD, Hudson C, rosa-Neto P, Farkas DL. 1,500,000 CAD. [Grants]
- 2015 - 2018 **Co-Investigator.** A Genomic-Imaging Analysis of the GENetic Frontotemporal Dementia Initiative (GENFI): Development of a Robust Clinical Trials Platform. Weston Brain Institute. PI: Masellis, Mario. Collaborator(s): Macintosh B, Rogaeva E, Finger E, Knight J, Laforce R, Black SE. 449,955 CAD. [Clinical Trials]
This grant is providing funding to perform genomic analysis using the NeuroX chip on the GENFI cohort.
- 2014 - 2020 **Co-Investigator.** The SARTAN-AD Trial: A Randomized, Open Label, Proof of Concept Study of Telmisartan vs Peridopril in Hypertensive Mild-Moderate Alzheimer's Disease Patients. Alzheimer's Drug Discovery Foundation. PI: Black, SE. Collaborator(s): Greenberg B, Lanctot K, Masellis M, Oh P, Thorpe K. 1,442,400 CAD. [Clinical Trials]
- 2013 - 2019 **Co-Investigator.** The Brain-Eye Amyloid Memory (BEAM) Study: Validation of ocular measures as potential biomarkers for early detection of brain amyloid and neurodegeneration. W. Garfield Weston Brain Canada. Collaborator(s): Caldwell C, Chow T, Fischer C, Freedman M, Greenberg B, Houle S, Hudson C, Kiss A, Lang A, Mandelcorn E, Margolin E, Masellis M, Pollock B, Rogaeva E, Swartz R, Strother S, Tang-Wai D, Tartaglia C, Valliant J, Voineskos A, Yang V. 1,498,490. [Grants]
- 2013 - 2018 **Co-Investigator.** Medical Imaging Trial Network of Canada (MITNEC). Canadian Institutes of Health Research. PI: Black, SE. Collaborator(s): Beanlands R, Benard F, Burrell SC, Evans AC, Rayne R, Friedrich MG, Lal C, Lee TY, McEwan A, Pibarot PJ, Turcotte E, Valliant JF. [Grants]
- 2013 - 2018 **Collaborator.** The Ontario Neurodegenerative Research Initiative. PI: Strong, MW. Collaborator(s): Masellis M, Black SE, Herrmann N, Swartz R, Zinman L. 28,500,000 CAD. [Grants]

PRESENTATIONS AND INVITED LECTURES

- 2019 **Invited Speaker.** Dementia Care in the Acute Hospital Setting: A Looming Health Care Crisis. International Behavioural Neurology Rounds (Broadcast to 36 countries worldwide).
- 2019 **Invited Speaker.** Neurological Exam in Neurodegenerative Diseases. Geriatric Assessment & Intervention Network. Knowledge Exchange Day.
- 2019 **Invited Speaker.** Approach to the Neurological Examination in Cognitive Impaired Individuals: A guide for Nurse Practitioners. GAIN Clinic, Scarborough Health Network, Scarborough ON.

- 2019 **Invited Speaker.** Controversies in mild Traumatic Brain Injury. Aviva Insurance Company, Hamilton ON
- 2019 **Invited Lecturer.** The Neurological Examination in Dementia. GAIN clinic, Whitby, ON.
- 2018 **Invited Lecturer.** Dementia Care in the Acute Hospital Setting: A Looming Health Care Crisis. Dr. Kirsta Lanctot. Toronto, Ontario, Canada. Presenter(s): Dr. **Sara Mitchell.** Reviewed Data for Sunnybrook health sciences centre regarding dementia care delivery, length of stay and morbidity and mortality. Reviewed the literature for strategic areas to target to improve care delivery.
- 2017 **Invited Lecturer.** When Words Fail: Primary Progressive Aphasia a Review and Update". Dr. Morris Freedman, Baycrest Hospital. Toronto, Ontario, Canada. Presenter(s): **Sara Mitchell.** Behavioural neurology international videoconference rounds broadcast across Ontario, Egypt, West Bank, Israel, Saudi Arabia, Albania, Sudan, USA, Spain, Russia and Senegal.
- 2017 **Invited Lecturer.** Neuropsychiatry & Neurodegeneration: A Review and Update on Frontotemporal Dementia Spectrum Diseases. Dr. Ari Zaretsky. Toronto, Ontario, Canada. Presenter(s): Dr. **Sara Mitchell.** Invited to present at Sunnybrook Hospital Psychiatry Departmental Grand Rounds. Presented on Frontotemporal Dementia.
- 2017 **Invited Speaker.** The Neurological Assessment of the Dementia Patient. Dr. Ron Keren. Toronto, Ontario, Canada. Presenter(s): Dr. **Sara Mitchell.** Invited to facilitate a workshop at the 9th annual Canadian Conference on Dementia (CCD) on the neurological assessment of the dementia patient.
- 2017 **Invited Lecturer.** From Neuropsychiatry to Neurodegeneration: Frontotemporal Dementia Spectrum Diseases. Dr. Morris Freedman. Toronto, Ontario, Canada. Presenter(s): Dr. **Sara Mitchell.** Presented at Behavioural Neurology City Wide Rounds.
- 2016 **Invited Speaker.** Primary progressive aphasia (PPA): A review and focus on clinical outcomes. Neuroscience Rounds, University of Manitoba. Winnipeg, Manitoba, Canada.
- 2016 **Invited Speaker.** Aphasia, Frontal lobe Function and FTL D Spectrum Diseases. University of Toronto Resident Academic Half day lecture, Neurology residency program, University of Toronto. Toronto, Ontario, Canada.
- 2016 **Invited Speaker.** Memory: A review. University of Toronto Medical Undergraduate Program Lecture, Brain and Behaviour course. Toronto, Ontario, Canada.
- 2016 **Invited Speaker.** Cognitive and Behavioural Neurology: A Review. Preparation for Royal College Exam for Seniors (PRES) Lecture, Neurology residency program, University of Toronto. Toronto, Ontario, Canada.
- 2016 **Invited Speaker.** Clinical and Imaging Predictors of Neuropsychiatric Symptoms in Primary Progressive Aphasia. Behavioural Neurology Section University of Toronto Invited Presentation. Toronto, Ontario, Canada.
- 2015 **Invited Speaker.** Primary Progressive Aphasia. Harvard Medical School Psychiatry Fellow Teaching. Boston, MA

ADMINISTRATIVE ACTIVITIES

- 2019 – present Director, Brain Medicine Fellowship, University of Toronto, Faculty of Medicine
- 2017 - present Director, Cognitive and Behavioural Neurology Rotation, Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada.

2019 – present	Member, Department Appointments Committee Review, University of Toronto, Department of Medicine
2017 - present	Perioperative Brain Health Centre Advisory Board. Sunnybrook Health Sciences Centre, Toronto ON
2016 - present	Senior Friendly Hospital Team Advisory Committee Faculty of Medicine, Dept of Medicine, Geriatric Medicine, Multilevel Education, Toronto, Ontario, Canada.
2016 - present	Dementia and Driving working group member
2016 - 2018	Co-lead, Foundations Year two, week 45 “Consciousness, Higher Cortical Functions and Cognitive Impairment”, Undergraduate MD, Faculty of Medicine, Dept of Medicine, Neurology, University of Toronto

ASSOCIATE OR SECTION EDITING

2016	American Journal of Geriatric Psychiatry, reviewer
2015	The Chronicle of Psychiatry and Neurology, Invited guest editor
2008	McMaster University Medical Journal, Health Psychology section editor

MEDIA AND RELATED APPEARANCES

2018 Mar 26	CBC National Television guest expert , “The Goods” , Season 2 Episode 100. Invited as a guest expert on CBC national television to discuss “ Concussion ”, 2 five minutes segments. My interview was subsequently published on CBC life website and shared over social media.
2018 Mar 26	CBC National Television guest expert , “The Goods” , Season 2 Episode 118. Invited as a guest expert on CBC national television to discuss “ Parkinson’s Disease ”, 2 five minutes segments. My interview was subsequently published on CBC life website and shared over social media.
2017 Dec 1	CBC National Television guest expert , “The Goods” , Season 2 Episode 49. Invited as a guest expert on CBC national television to discuss “ Stroke ”, 2 five minutes segments. My interview was subsequently published on CBC life website and shared over social media.
2017 Oct 19	CBC National Television guest expert , “The Goods” , Season 2 Episode 23. Invited as a guest expert on CBC national television show to discuss “ Dementia ”, 2 five minutes segments.
2017 Sep 19	CBC National Television guest expert , “The Goods” , Season 2 Episode 2. Invited as a guest expert on CBC national television show to discuss “ Brain Health ”, 2 five minutes segments. My interview was subsequently published on CBC life website and shared extensively over social media.
2017 May/Jun	Chateline Magazine Interview . Interviewed on brain health in May/June issue.
2017 Oct 18	Special Guest , Provincial Behavioural Supports Ontario Lived Experience Advisory.
2018 Mar 12	Panelist for University of Toronto’s Women in Science and Engineering (WISE) Dessert with Doctors evening.

HONOURS AND SCHOLARSHIPS

December 2018	Teaching Excellence Award, University of Toronto, Undergraduate Medical Program
August 2016	Neuropsychiatric Syndromes PIA Best Poster Award, Alzheimer’s

March 2015	Association International Conference (AAIC) annual meeting
April 2015	Young Investigator Award, American Neuropsychiatric Association (ANPA)
January 2014	American Academy of Neurology fellow scholarship, to attend annual meeting
July 2012	Division of Neurology New Initiatives Award, University of Toronto
Aug 2007	Sabiha Al-Hassan Neurology Award, Sunnybrook Hospital
April 2008	Cholowsky Family Multiple Sclerosis Award
April 2005	Student Interest Group in Neurology scholarship
June 2005	Top undergraduate research award poster presentation
June 2001-2005	Dean's Honour list Graduate with High Distinction, McGill University
June 2001-2005	Honour Roll, McGill University

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

2015 - present	Member , University of Toronto Behavioural Neurology Section
2014 - present	Member , Society for Neuroscience
2014 - present	Fellow , The Royal College of Physicians and Surgeons of Canada
2014; 2020	Member , American Neuropsychiatric Association
2011 - present	Member , Canadian Neurological Sciences Federation
2009 - present	Member , American Academy of Neurology
2004 - present	Member , Canadian Medical Association
2004 - present	Member , Canadian Medical Protective Association
2004 - present	Member , Ontario Medical Association
2003 - present	Member , Golden Key International Honor Society
