

2021 Annual Report

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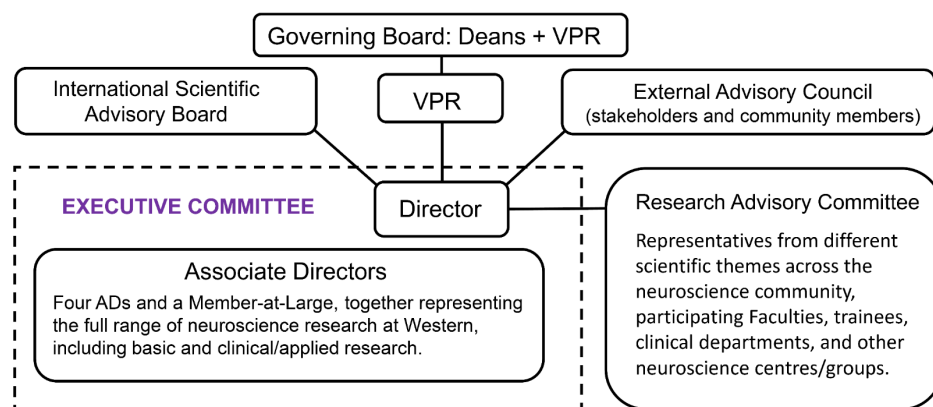
Section 1.0 – The Institute at a Glance

The newly established Western Institute for Neuroscience (WIN) is focused on research excellence in neuroscience with an emphasis on innovation, collaboration, and knowledge translation. The WIN will enable sustained advances in neuroscience research through the support of novel and high-risk collaborative ventures, emerging opportunities and the attraction and retention of leading researchers in the field. Through strategically planned programs and activities, the WIN aims to support a complex adaptive research environment that brings experts together to mobilize and integrate diverse perspectives, skills, and infrastructure. This will enable the development of high-impact transdisciplinary research projects that integrate interrelated efforts across disciplines in London and across the region, leveraging considerable breadth in perspective, expertise and methods to accelerate the discovery of fundamental knowledge, the development of novel applied research practices and the delivery of beneficial outcomes for human health and well-being.

Over the past year, the groundwork was laid for this new Board of Governors-approved Institute, based on the following vision, mission and mandates:

Vision	<ul style="list-style-type: none">• Unlocking the mysteries of the brain for societal benefit.
Mission	<ul style="list-style-type: none">• To understand the brain and its nervous systems, the mind, and behaviour, and translate this knowledge to improve human lives and society.
Mandate	<ul style="list-style-type: none">• To equip the neuroscience community at Western and the region of London, Ontario with leadership in vision, advocacy, and alignment of expertise;• To provide financial support for novel and high-risk collaborative initiatives;• To assist in the translation of research findings into the clinic, the classroom, and industry;• To coordinate applications for major funding and approaches to donors;• To embrace Open Science at the institutional level and foster the development a community-driven Open Science framework for Western neuroscientists;• To foster the adoption of EDI principles in recruitment, education, and research; and• To mentor the next generation of neuroscience leaders, offering unique cross-disciplinary experiences.

Interim Director, Prof. Mel Goodale was appointed by the Vice President (Research), Lesley Rigg, in January 2021. Prof. Goodale worked closely with an appointed Steering Committee to strategically plan WIN's implementation. An overarching governance structure was formed based on the many discussions with Western Research, the WIN steering committee, and the consulting firm, Stiletto, which has considerable experience with the organizational structure of university institutes and programs. The organization chart below illustrates what emerged from those discussions.



1.1 – WIN Committees

In May 2022, the WIN Executive Committee (EXEC) was assembled based on nominations submitted by the neuroscience community (members listed in Appendix C). EXEC members are drawn from across the broad range of neuroscience research at Western, from cellular mechanisms to high-level cognitive function, and from basic research to application in the clinic, in education, and beyond. Moreover, members of the committee have all expressed a commitment to moving WIN forward for the benefit of not only the neuroscience community in London, but society at large. One of the first tasks of the EXEC will be to put together the Research Advisory Committee (RAC), made up of representatives from London's neuroscience community. The different scientific themes across the neuroscience community will have representation on the RAC, as will the participating Faculties, trainees, clinical departments, and other relevant neuroscience centres/groups. The EXEC will also work on assembling an External Advisory Council (EAC) that consists of stakeholders within and external to Western. More information about committee mandates, composition, etc. can be found at <https://www.uwo.ca/research/impact/institutes.html> under resource documents. In the longer term, the EXEC will also assemble the international scientific advisory board, which will consist of leading neuroscience researchers drawn from centres and institutes around the world.

1.2 – Upcoming Strategic Planning Process

The key challenge for the EXEC in 2022 will be developing WIN's comprehensive strategic plan including the identification of research priorities with advice from the Research Advisory Committee (RAC), the External Advisory Committee (EAC) and feedback from the broad community including investigators, trainees, and partners.

1.3 – Fundraising

One of the major tasks of WIN over the next years will be to work with Advancement Operations to identify and secure funding from donors and other sources – and coordinate such efforts across the University and the hospital foundations. There are a number of well-established neuroscience-oriented research groups on campus, including the Robarts Translational Neuroscience Group, Brain & Mind, the National Centre for Audiology, the Gray Centre for Mobility and Activity, the Centre for the Science of Learning, and others. These groups have their own local governance

structures and will continue to do so, even though they will all be part of the WIN family. Other research groups will undoubtedly self-assemble.

1.4 – Administrative Hub

WIN recruited an Administrative Officer, Florence Lourdes, who will lead WIN’s central administrative offices located in the Western Interdisciplinary Research Building (WIRB) on Perth Drive. Although the offices will be in WIRB, WIN will represent the interests of neuroscience researchers across the campus and the city.

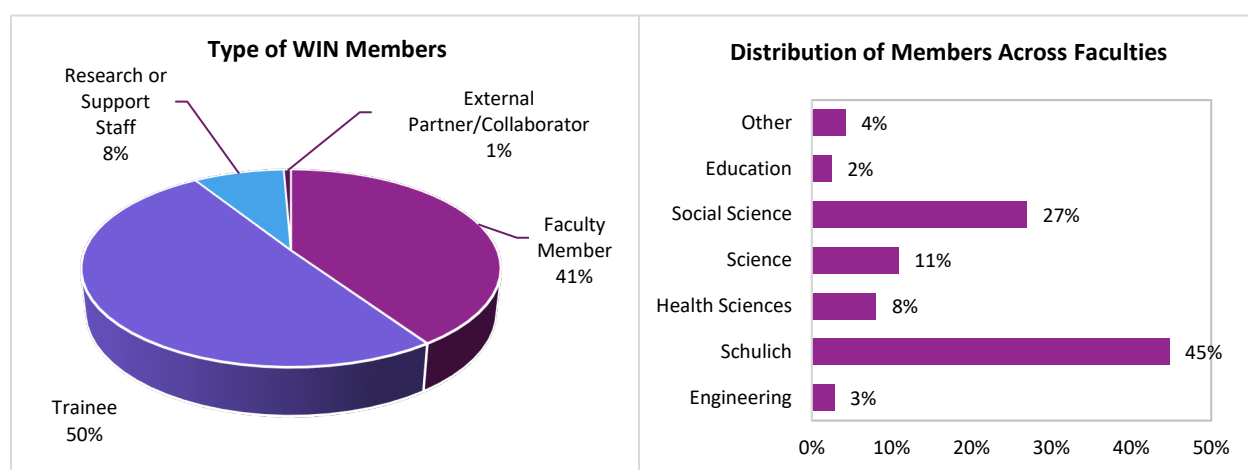
Section 2.0 - Acceleration of Research Success & Innovation

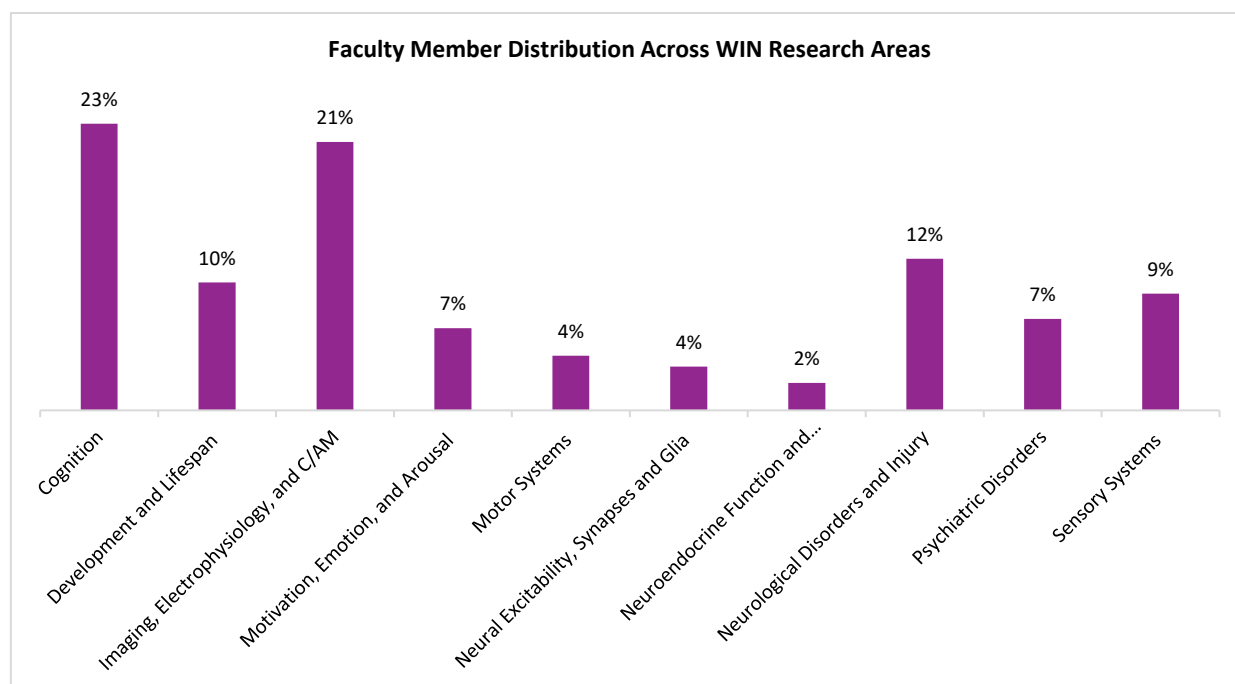
WIN aims to provide a framework that coordinates and unifies programs and activities across the neuroscience community to advance its mandate at Western and London region. This will elevate and accelerate impactful world-class research impact on human health, technology development, and education that would not otherwise be accomplished.

2.1 – Strength Through Interdisciplinarity - Our People

Membership Description

Neuroscience PIs were invited to self-identify and submit their profiles to the WIN administrative team. Membership will be reviewed every 5 years. The WIN membership platform opened in March 2022 and now includes 123 faculty members, 152 trainees, and 27 other members including: partners, collaborators, and staff (Appendix A). We anticipate that as the WIN launch becomes more visible through strategic planning exercises and with the implementation of additional programs and activities, additional neuroscientist and partners who are part of the broad neuroscience community will continue to upload their membership profiles. The graphics below display the types of members, distribution across partner Faculties, and alignment to WIN research areas/domains of members to date.





Prestigious Awards & Recognitions

WIN members hold a number of distinguished awards and honours, such as: 18 Research Chairs (1 Endowed/Industry-funded), 4 Fellows of the Royal Society of Canada, 1 Fellow of the Royal Society (UK), 1 Order of the British Empire, 4 NSERC E.W.R. Steacie Memorial Fellowships, 4 Distinguished University Professors, 18 Faculty Scholars, 2 Hellmuth Prizes for Achievement in Research, 1 RSC College for New Scholars, Artists, and Scientists, and 1 Richard C. Tees Award for Distinguished Leadership (Appendix B).

2.2 – Balancing Established & Emerging Priorities – Our Research Initiatives

WIN will be launching or partnering with other groups to deliver programs and services that support neuroscientist within this community. Programs and activities may include a grand challenges Think Tank Series, Catalyst Awards, a strategic funding program, post-doctoral or clinical fellowships, interdisciplinary graduate research awards, undergrad student scholarships, national/international planning meetings, conference sponsorships, a Showcase Series, workshops, seminars, research retreat, and/or trainee travel awards. To date, WIN has already made progress with an Open Science Framework, Fellowship Program, Undergraduate Student Research Internships, Neurotechnology Micro-credentials Program and SSMD MD/PhD Program.

Grand Challenges Think Tank Series

There is little doubt that research in neuroscience is already having an unparalleled and positive impact in the clinic, the classroom, and industry; WIN is well-poised to amplify those impacts over the next five years. Grand Challenges will be identified and prioritized this year through strategic planning and reflection by the EXEC with the support of RAC and EAC, as well as broad feedback from Western's large neuroscience community. RAC will then select priority Think Tank Series topics. The goal is to explore grand neuroscience challenges and find solutions by bringing

together transdisciplinary knowledge experts and diverse perspectives together to brainstorm (typically include 10-15 outstanding local, national, or international experts).

Open Science Framework

The term Open Science has many definitions, all related to the sharing of scientific resources including data, software, protocols, hardware, equipment and reagents in order to accelerate discovery. WIN sees Open Science as a key strategy to maximize the impact of our research on society, to enable collaborative endeavours, and to maintain our legacy of excellence and innovation in neuroscience. An integral part of our enterprise, a project to assess WIN Open Science needs, establish Open Science guiding principles, and to develop an Open Science implementation plan, has already begun with \$100K of funding support received by the Tanenbaum Open Science Institute (TOSI) and matched by an additional \$100K from BrainsCAN. Marco Prado and Ali Khan are leading this initiative with the assistance of Ryan Salewski, project manager and metrics analyst at BrainsCAN. There is a possibility of continuing support in coming years at \$45K/year from TOSI should we be successful in setting an effective framework.

2.3 – Future Leaders Programs

Inaugural WIN Fellowship Program

WIN is committed to fostering collaborative research between basic and clinical researchers in neuroscience, bridging the gap between laboratory research and clinical practice. The Clinical Research / Postdoctoral Fellowship program was launched in November 2021 for this purpose and offers competitive 2-year fellowships for individuals with Clinical degrees or PhDs with co-supervision by a clinician and a basic scientist in neuroscience. This program allows Fellows to spend some of their time working in clinical setting, but the majority of their time focused on research. In the clinical setting, the fellows will have an opportunity to work with patients with neurological and related diseases and disorders and to gain direct experience working side-by-side with clinical faculty in neurology, psychiatry, medicine, radiology, pediatrics, anesthesiology and/or physical medicine and rehabilitation, at the Schulich School of Medicine and Dentistry and at London Health Sciences Centre sites. In the basic research setting, the fellows will gain experience working in one or more of Western's state-of-the-art core facilities and innovation platforms for neuroscience research. This year, an annual amount of \$60,000 plus 13% benefits was awarded to each of the 3 successful applicants for a period of two years, for a grand total of \$406,800 in support (Appendix D).

Undergraduate Student Research Internships

The Western Undergraduate Summer Research Internships (USRI) program provides undergraduate students with engaged research experiences and opportunities to learn new research methods and techniques alongside faculty mentors. It also helps develop skills in preparation for future careers. Together with Western Research, WIN sponsored 4 undergraduate student research internships this year totaling \$20,700 in support over and above the Western Research funding support (Appendix E).

Neurotechnology Micro-credentials Program

Western University is partnering with Queen's University Centre for Neuroscience Studies on Neurotechnology Micro-credentials Program in which students who complete the program would get special access to neurotech industry recruiting efforts (facilitated by NeurotechX). WIN, together with Brian Corneil, Director of the Neuroscience Graduate Program, have been working with the Queens University in finding ways to use the program to foster new and exciting directions

in neuroscience research -- as well as tech transfer and applications to the clinic and education. The Capstone course at satellite sites is expected to start in Summer of 2023. More details at <http://neuroscience.queensu.ca/academic/microcredentials>.

SSMD MD/PhD Program

The MD/PhD Program at the Schulich School of Medicine & Dentistry, Western University is a well-established program that offers a combination of doctoral research and undergraduate medical training for a select number of students. Under the leadership of Dr. Denise Figlewicz (PhD), Vice-Dean, Research & Innovation, and overseen by the MD/PhD Committee, the program aims to train clinician scientists to become leaders in medical research and patient care. Currently, approximately twenty MD/PhD candidates are enrolled in the program and are engaged in a variety of exciting and innovative research programs. BrainsCAN has supported the program for the past 2 years and reported on truly exceptional candidates. WIN will explore how to best support this program in upcoming years. More details at https://www.schulich.uwo.ca/medicine/md_phd/.

Section 3.0 – Communications

Website

The WIN website (<https://win.uwo.ca/>) is under development will be launched and then expanded in 2022 to reflect priorities identified during the strategic planning process.

Newsletter

Several newsletters have been circulated in 2021 to keep the Neuroscience community informed of WIN's developmental progress.

Month	Link
July	https://mailchi.mp/uwo/western-institute-for-neuroscience-newsletter-2?e=32bd9b8a34
September	https://mailchi.mp/uwo/western-institute-for-neuroscience-newsletter-september-2021?e=32bd9b8a34
October	https://mailchi.mp/uwo/western-institute-for-neuroscience-newsletter-4-october-2021?e=32bd9b8a34
November	https://mailchi.mp/uwo/western-institute-for-neuroscience-newsletter-5-novdec-2021?e=32bd9b8a34

Section 4.0 - WIN Financial Report

Below is an overview of actual costs for fiscal year '22 (May 2021 to April 2022) along with projections for the full five-year term of the institute core programing.

4.1 - Revenues

Not all revenues listed in the projections are confirmed. Central (\$250K annually) and partner support (\$175K annually) are yet to be secured. The amount entered for projection purposes in based on initial discussions and assumptions at this stage. They are meant to serves as a demonstration of how funds would be used to support core programing. Faculty / decanal support has been secured for the full term of the institute totaling \$150K annual. It is not anticipated that the WIN will host its own neuroscience conference and so there is no expectation that revenues will be generated using Conference Fees. That said, event sponsorships may be sought to support

local or partnered events. Due to the uncertainty with respect to this revenue source, projections were kept nil. To balance current anticipated core programs and activities, a placeholder was used with respect to fundraising, donations, and internal grants. This amount does not reflect what the WIN would need in order to grow and expand to achieve its goal of becoming one of the leading neuroscience institutes worldwide. Should any of the unconfirmed revenue sources include in these projections fail to materialize, we would be forced to cut programing starting with the catalyst grant program, interdisciplinary graduate research awards, undergraduate student scholarships and the post-doctoral/clinical fellowships.

4.2 - Expenses

Expenses are primarily structured to create an environment that enables and supports interdisciplinary collaborations among members that have not naturally come together. In other words, they implement supports and services that bring experts from different disciplines, background and lived experiences together to start to examine grand neuroscience challenges from new perspectives. This includes: a) Member Initiatives & Events such as Think Tanks, Showcase Series, workshops, seminars, research retreats, the TOSI initiative, and other events; b) Strategic and Innovation Research Awards such as catalyst grants for new early-stage and high risk research project ideas, an innovation program to support entrepreneurship, a strategic funding program to enable timely action related to priority initiatives; c) a Future Leaders Program to develop the next generation of interdisciplinary neuroscientists via postdoc or clinical fellowships, interdisciplinary graduate research awards, and undergraduate student research internships; d) Research Meetings and Conferences to expand our reach and profile via national/international planning meetings, conference sponsorships, and trainee travel awards; e) Communications (website, advertisement, news items, and outreach events); f) Operating (equipment, services, supplies, and governance meetings) to maintain necessary workflow and presence; and finally g) Staff Compensation, for it would not be possible to offer these support and services without leadership and administrative support (associate director allowances, administrative officer, and research officer).

4.3 - Budget Projection Table

	2021-22 (FY22) Actual Costs	2022-23 (FY23) Projected Costs	2023-24 (FY24) Projected Costs	2024-25 (FY25) Projected Costs	2025-26 (FY26) Projected Costs
Summary					
Cumulative surplus/deficit	0	398,155	2,436	2,891	3,515
In-year fund allocation from cumulative surplus	0	398,155	0	0	0
Revenues	600,000	973,155	1,025,000	1,235,000	1,320,000
Expenses	201,845	970,719	1,024,545	1,234,376	1,318,054
In-year surplus deficit	398,155	2,436	455	624	1,946
FUND BALANCE	398,155	2,436	2,891	3,515	5,461
AVAILABLE FUNDS					
In-Year Fund Allocation from Cumulative Surplus	0	398,155	0	0	0
Central Support	250,000	250,000 ^a	250,000 ^a	250,000 ^a	250,000 ^a
Faculty / Decanal Support	150,000	150,000	150,000	150,000	150,000
Partner Support	200,000	175,000 ^a	175,000 ^a	45,000 ^a	45,000 ^a
Conference Fees	0	0	0	0	0
Event Sponsorship	0	0	0	0	0
Fundraising /Donations/Internal Grants	0	0	450,000 ^b	790,000 ^b	875,000 ^b
TOTAL REVENUES	600,000	973,155	1,025,000	1,235,000	1,320,000
EXPENSES					
Member Initiatives & Events (Think Tanks, Showcase Series, workshops, seminars, research retreat, TOSI initiative, other events)	100,445	13,000	13,000	13,000	13,000
Strategic and Innovation Research Awards (catalyst grants, innovation program, strategic funding program)	0	350,000	350,000	360,000	410,000
Future Leaders Program (post-doc or clinical fellowships, interdisciplinary research awards, undergrad student scholarships)	1,400	380,700	380,700	380,700	400,700
Research Meetings and Conferences (national/international planning meetings, conference sponsorships, trainee travel awards)	0	15,000	15,000	15,000	15,000
Communications (website, advertisement, news items, outreach events)	0	6,000	6,000	6,000	6,000
Operating (equipment, services, supplies, governance meetings)	0	15,000	15,000	15,000	15,000
Staff Compensation (associate director allowances, admin officer, research officer)	100,000	191,019	244,845	444,676	458,354
TOTAL EXPENSES	201,845	970,719	1,024,545	1,234,376	1,318,054
a	Unsecured funds from central, TOSI and/or possibly BrainsCAN				
b	Unsecured funds				

Section 5.0 - List of Appendices

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Appendix A – WIN Membership

WIN Faculty Member			Faculty	WIN Research Themes
1.	Allen	Prudence	Health Sciences	----
2.	Anderson	Michael	Arts & Humanities	Cognition Imaging, Electrophysiology, and Computational/Analytic Methods Sensory Systems
3.	Ansari	Daniel	Social Science Education	Cognition Development and Lifespan
4.	Archibald	Lisa	Health Sciences Social Science	Cognition Development and Lifespan
5.	Azarpazhooh	M. Reza	Schulich	Cognition
6.	Bagatto	Marlene	Health Sciences	Development and Lifespan Imaging, Electrophysiology, and Computational/Analytic Methods
7.	Bai	Donglin	Schulich	Imaging, Electrophysiology, and Computational/Analytic Methods Neural Excitability, Synapses and Glia
8.	Baron	Corey	Schulich	Imaging, Electrophysiology, and Computational/Analytic Methods Neurological Disorders and Injury
9.	Batterink	Laura	Social Science	Cognition Imaging, Electrophysiology, and Computational/Analytic Methods
10.	Berube	Nathalie	Schulich	Cognition Development and Lifespan Imaging, Electrophysiology, and Computational/Analytic Methods Neural Excitability, Synapses and Glia Neurological Disorders and Injury
11.	Bhangu	Jaspreet	Schulich	Cognition
12.	Bodell	Lindsay	Social Science	Motivation, Emotion, and Arousal Neuroendocrine Function and Homeostasis Psychiatric Disorders
13.	Brown	Arthur	Schulich	Cognition Development and Lifespan Neurological Disorders and Injury
14.	Burneo	Jorge	Schulich	Neurological Disorders and Injury
15.	Bussey	Tim	Schulich	Cognition Development and Lifespan Imaging, Electrophysiology, and Computational/Analytic Methods Motivation, Emotion, and Arousal Neural Excitability, Synapses and Glia Neuroendocrine Function and Homeostasis Neurological Disorders and Injury Psychiatric Disorders
16.	Butler	Blake	Social Science	Cognition Development and Lifespan Imaging, Electrophysiology, and Computational/Analytic Methods Sensory Systems
17.	Chan	Tommy	Schulich	Neurological Disorders and Injury

WIN Faculty Member			Faculty	WIN Research Themes
18.	Chen	Elvis	Schulich Engineering	Imaging, Electrophysiology, and Computational/Analytic Methods Sensory Systems
19.	Christie	Anita	Health Sciences	Motor Systems
20.	Cooper	Paul	Schulich	Neuroendocrine Function and Homeostasis
21.	Corneil	Brian	Schulich Social Science	Imaging, Electrophysiology, and Computational/Analytic Methods Motor Systems Sensory Systems
22.	Culham	Jody	Social Science	Cognition Imaging, Electrophysiology, and Computational/Analytic Methods Motor Systems Sensory Systems
23.	Cumming	Robert	Science	Cognition Development and Lifespan Neurological Disorders and Injury
24.	Daley	Mark	Science Engineering Schulich	Cognition Imaging, Electrophysiology, and Computational/Analytic Methods Motor Systems Sensory Systems
25.	de Ribaupierre	Sandrine	Schulich	Cognition Development and Lifespan Imaging, Electrophysiology, and Computational/Analytic Methods Neurological Disorders and Injury
26.	De Souza	Jonathan	Music	Cognition
27.	Dekaban	Greg	Schulich	Neurological Disorders and Injury
28.	Dickey	Chandlee	Schulich	Psychiatric Disorders
29.	Diedrichsen	Jörn	Science	Imaging, Electrophysiology, and Computational/Analytic Methods Motor Systems Sensory Systems
30.	Duerden	Emma	Education Schulich	Cognition Development and Lifespan Imaging, Electrophysiology, and Computational/Analytic Methods Psychiatric Disorders
31.	Eagleson	Roy	Engineering Social Science	Cognition Development and Lifespan Imaging, Electrophysiology, and Computational/Analytic Methods Motor Systems Sensory Systems
32.	Fenesi	Barbara	Education	Cognition Development and Lifespan
33.	Fraser	Alex	Schulich	Cognition Neurological Disorders and Injury Sensory Systems
34.	Fraser	Douglas	Schulich	Development and Lifespan Neurological Disorders and Injury
35.	Frewen	Paul	Schulich Social Science	Motivation, Emotion, and Arousal Psychiatric Disorders

WIN	Faculty Member		Faculty	WIN Research Themes
36.	Fridman	Sebastian	Health Sciences	----
37.	Friesen	Deanna	Education	Cognition
38.	Frisbee	Jefferson	Schulich	----
39.	Ganesan	Rishi	Schulich	Cognition Development and Lifespan Imaging, Electrophysiology, and Computational/Analytic Methods Neurological Disorders and Injury
40.	Garland	Jayne	Health Sciences Schulich	Motor Systems
41.	Gati	Joe	Schulich	Imaging, Electrophysiology, and Computational/Analytic Methods
42.	Goodale	Mel	Social Science Schulich	----
43.	Grahn	Jessica	Social Science	Cognition Development and Lifespan Imaging, Electrophysiology, and Computational/Analytic Methods Motor Systems Neurological Disorders and Injury Sensory Systems
44.	Gribble	Paul	Social Science Schulich	Motor Systems Sensory Systems
45.	Hachinski	Vladimir	Schulich	Cognition Neurological Disorders and Injury
46.	Hampson	Elizabeth	Social Science Schulich	Cognition Development and Lifespan Motivation, Emotion, and Arousal Neuroendocrine Function and Homeostasis Psychiatric Disorders
47.	Hayden	Elizabeth	Social Science	Cognition Development and Lifespan Motivation, Emotion, and Arousal Neuroendocrine Function and Homeostasis Psychiatric Disorders
48.	Heath	Matthew	Health Sciences	Cognition Motor Systems Sensory Systems
49.	Heerey	Erin	Social Science	Cognition Development and Lifespan Motivation, Emotion, and Arousal Psychiatric Disorders
50.	Hicks	Justin	Schulich	Imaging, Electrophysiology, and Computational/Analytic Methods Neural Excitability, Synapses and Glia Neurological Disorders and Injury Psychiatric Disorders
51.	Inoue	Wataru	Schulich	Imaging, Electrophysiology, and Computational/Analytic Methods Neural Excitability, Synapses and Glia Neuroendocrine Function and Homeostasis Psychiatric Disorders
52.	Jared	Debra	Social Science	Cognition

WIN Faculty Member			Faculty	WIN Research Themes
53.	Joanisse	Marc	Social Science	Cognition Imaging, Electrophysiology, and Computational/Analytic Methods
54.	Johnsrude	Ingrid	Social Science Health Sciences	Cognition Development and Lifespan Imaging, Electrophysiology, and Computational/Analytic Methods Motivation, Emotion, and Arousal Neurological Disorders and Injury Sensory Systems
55.	Jurkiewicz	Michael	Schulich	----
56.	Kavaliers	Martin	Social Science	Cognition Motivation, Emotion, and Arousal Neuroendocrine Function and Homeostasis Sensory Systems
57.	Khan	Ali	Schulich	Development and Lifespan Imaging, Electrophysiology, and Computational/Analytic Methods Neurological Disorders and Injury
58.	Khaw	Alexander	Schulich	Cognition Imaging, Electrophysiology, and Computational/Analytic Methods Neurological Disorders and Injury
59.	Khokhar	Jibran	Schulich	Cognition Development and Lifespan Imaging, Electrophysiology, and Computational/Analytic Methods Motivation, Emotion, and Arousal Psychiatric Disorders
60.	Köhler	Stefan	Social Science	Cognition Development and Lifespan Imaging, Electrophysiology, and Computational/Analytic Methods Motivation, Emotion, and Arousal Neurological Disorders and Injury Psychiatric Disorders Sensory Systems
61.	Lanius	Ruth	Schulich	Cognition Imaging, Electrophysiology, and Computational/Analytic Methods Motivation, Emotion, and Arousal Psychiatric Disorders Sensory Systems
62.	Lau	Jonathan	Schulich Engineering	Imaging, Electrophysiology, and Computational/Analytic Methods Neurological Disorders and Injury
63.	Laviolette	Steven	Schulich	Cognition Development and Lifespan Imaging, Electrophysiology, and Computational/Analytic Methods Motivation, Emotion, and Arousal Neural Excitability, Synapses and Glia Psychiatric Disorders Sensory Systems

WIN Faculty Member			Faculty	WIN Research Themes
64.	Lodhi	Rohit	Schulich	Motivation, Emotion, and Arousal Psychiatric Disorders
65.	Lu	Kun Ping	Schulich	Cognition Development and Lifespan Neural Excitability, Synapses and Glia Neuroendocrine Function and Homeostasis Neurological Disorders and Injury Psychiatric Disorders
66.	Lu	Wei-Yang	Schulich	Neural Excitability, Synapses and Glia
67.	MacDougall	Arlene	Schulich	Motivation, Emotion, and Arousal Psychiatric Disorders
68.	Macpherson	Ewan	Health Sciences Engineering	Motor Systems Neurological Disorders and Injury Sensory Systems
69.	Mao	Haojie	Engineering	Imaging, Electrophysiology, and Computational/Analytic Methods Neurological Disorders and Injury
70.	McRae	Ken	Social Science	Cognition Imaging, Electrophysiology, and Computational/Analytic Methods Neurological Disorders and Injury
71.	Menon	Ravi	Schulich	Cognition Development and Lifespan Imaging, Electrophysiology, and Computational/Analytic Methods Motor Systems Neurological Disorders and Injury Sensory Systems
72.	Mhatre	Natasha	Science	Cognition Imaging, Electrophysiology, and Computational/Analytic Methods Motor Systems Sensory Systems
73.	Minda	John Paul	Social Science	Cognition Development and Lifespan
74.	Mirsattari	Syed	Schulich Social Science	Cognition Imaging, Electrophysiology, and Computational/Analytic Methods Neurological Disorders and Injury
75.	Mitchell	Derek	Schulich Social Science	Cognition Motivation, Emotion, and Arousal Neurological Disorders and Injury Psychiatric Disorders
76.	Moehring	Amanda	Science	Motivation, Emotion, and Arousal Sensory Systems
77.	Mohsenzadeh	Yalda	Science	Cognition Imaging, Electrophysiology, and Computational/Analytic Methods
78.	Muller	Lyle	Science	Cognition Imaging, Electrophysiology, and Computational/Analytic Methods Sensory Systems

WIN Faculty Member			Faculty	WIN Research Themes
79.	Nagamatsu	Lindsay	Health Sciences	Cognition Development and Lifespan Imaging, Electrophysiology, and Computational/Analytic Methods
80.	Nicolle	Michael	Schulich	Motor Systems Neural Excitability, Synapses and Glia
81.	Nicolson	Rob	Schulich Science	Development and Lifespan Psychiatric Disorders
82.	Norton	Loretta	Social Science Schulich	Cognition Imaging, Electrophysiology, and Computational/Analytic Methods Neurological Disorders and Injury
83.	Oram Cardy	Janis	Health Sciences	Cognition Development and Lifespan Imaging, Electrophysiology, and Computational/Analytic Methods Sensory Systems
84.	Orange	J. B.	Health Sciences	Cognition Neurological Disorders and Injury
85.	Ossenkopp	Klaus-Peter	Social Science	Cognition Development and Lifespan Motivation, Emotion, and Arousal Neuroendocrine Function and Homeostasis Psychiatric Disorders Sensory Systems
86.	Owen	Adrian	Schulich Social Science	Cognition Imaging, Electrophysiology, and Computational/Analytic Methods Neurological Disorders and Injury
87.	Palaniyappan	Lena	Schulich	Cognition Development and Lifespan Imaging, Electrophysiology, and Computational/Analytic Methods Psychiatric Disorders
88.	Pasternak	Stephen	Schulich	Cognition Imaging, Electrophysiology, and Computational/Analytic Methods Neurological Disorders and Injury
89.	Patel	Rajni	Engineering Schulich	Cognition Imaging, Electrophysiology, and Computational/Analytic Methods Motor Systems Neurological Disorders and Injury
90.	Peters	Sue	Health Sciences	Cognition Imaging, Electrophysiology, and Computational/Analytic Methods Motor Systems Neurological Disorders and Injury Sensory Systems

WIN Faculty Member			Faculty	WIN Research Themes
91.	Prado	Marco	Schulich	Cognition Imaging, Electrophysiology, and Computational/Analytic Methods Motivation, Emotion, and Arousal Neural Excitability, Synapses and Glia Neurological Disorders and Injury
92.	Pruszyński	Andrew	Schulich Social Science	Cognition Development and Lifespan Imaging, Electrophysiology, and Computational/Analytic Methods Motor Systems Neurological Disorders and Injury Sensory Systems
93.	Racosta	Juan	Schulich	Imaging, Electrophysiology, and Computational/Analytic Methods
94.	Rafat	Yasaman	Arts & Humanities	Cognition
95.	Rylett	Jane	Schulich	Cognition Neural Excitability, Synapses and Glia Psychiatric Disorders
96.	Saksida	Lisa	Schulich	Cognition Development and Lifespan Imaging, Electrophysiology, and Computational/Analytic Methods Motivation, Emotion, and Arousal Neural Excitability, Synapses and Glia Psychiatric Disorders
97.	Savundranayagam	Marie	Health Sciences	Cognition Development and Lifespan Motivation, Emotion, and Arousal Neurological Disorders and Injury Psychiatric Disorders Sensory Systems
98.	Schabrun	Siobhan	Health Sciences	Imaging, Electrophysiology, and Computational/Analytic Methods Motor Systems Neurological Disorders and Injury Sensory Systems
99.	Schmid	Susanne	Schulich Social Science	Sensory Systems
100.	Schmitz	Taylor	Schulich	Cognition Development and Lifespan Imaging, Electrophysiology, and Computational/Analytic Methods Neurological Disorders and Injury Sensory Systems
101.	Scollie	Susan	Health Sciences	Development and Lifespan Imaging, Electrophysiology, and Computational/Analytic Methods Neurological Disorders and Injury Sensory Systems

WIN Faculty Member			Faculty	WIN Research Themes
102.	Seminowicz	David	Schulich	Cognition Imaging, Electrophysiology, and Computational/Analytic Methods Sensory Systems
103.	Shoemaker	Kevin	Health Sciences Schulich	Neuroendocrine Function and Homeostasis
104.	Simon	Anne	Science	Cognition Development and Lifespan Neural Excitability, Synapses and Glia Psychiatric Disorders
105.	Slessarev	Marat	Schulich	Cognition Imaging, Electrophysiology, and Computational/Analytic Methods Neurological Disorders and Injury
106.	Soddu	Andrea	Science	Imaging, Electrophysiology, and Computational/Analytic Methods
107.	Spence	J. David	Schulich	Neurological Disorders and Injury
108.	Sposato	Luciano	Schulich	Cognition Neurological Disorders and Injury
109.	St. Lawrence	Keith	Schulich Engineering	Development and Lifespan Imaging, Electrophysiology, and Computational/Analytic Methods
110.	Stevenson	Ryan	Social Science Schulich	Cognition Development and Lifespan Psychiatric Disorders Sensory Systems
111.	Suller Marti	Ana	Schulich Engineering Science	Cognition Imaging, Electrophysiology, and Computational/Analytic Methods Neurological Disorders and Injury Psychiatric Disorders
112.	Sullivan	Jacqueline	Arts & Humanities	Cognition Imaging, Electrophysiology, and Computational/Analytic Methods Motivation, Emotion, and Arousal Neural Excitability, Synapses and Glia Neurological Disorders and Injury Psychiatric Disorders
113.	Sutton	Jennifer	Social Science Brescia University College	Cognition
114.	Suvorov	Ruslan	Education	Cognition Imaging, Electrophysiology, and Computational/Analytic Methods Motivation, Emotion, and Arousal
115.	Théberge	Jean	Schulich	Cognition Imaging, Electrophysiology, and Computational/Analytic Methods Motivation, Emotion, and Arousal Psychiatric Disorders
116.	Thiessen	Jonathan	Schulich	Imaging, Electrophysiology, and Computational/Analytic Methods

WIN Faculty Member			Faculty	WIN Research Themes
117.	Timney	Brian	Social Science Emeritus	Cognition Motivation, Emotion, and Arousal
118.	Unger	Janelle	Health Sciences	Motor Systems Neurological Disorders and Injury
119.	Van Hedger	Stephen	Social Science Huron University	Cognition Imaging, Electrophysiology, and Computational/Analytic Methods Sensory Systems
120.	Whitehead	Shawn	Schulich Science	Development and Lifespan Neural Excitability, Synapses and Glia Neurological Disorders and Injury
121.	Williamson	Peter	Schulich Emeritus	Imaging, Electrophysiology, and Computational/Analytic Methods
122.	Yeung	Ken	Science	Imaging, Electrophysiology, and Computational/Analytic Methods
123.	Yu	Yeyao	Schulich	----

WIN Trainees	*Self-reported data	Faculty	Department	Career Stage	
1.	Abbas	Hana	Social Science	Psychology	Doctoral
2.	Abdalmalak	Androu	Schulich	Physiology & Pharmacology	Post-Doctoral
3.	Adebisi	Olamide	Schulich	Physiology & Pharmacology	Post-Doctoral
4.	Al-Tahan	Haider	Schulich	Neuroscience	Masters
5.	Alushaj	Erind	Schulich	Clinical Neurological Sciences	Doctoral
6.	Alvarez Rivero	Aymee	Social Science	Psychology	Doctoral
7.	Ariani	Giacomo	Science	Computer Science	Post-Doctoral
8.	Bacher	Cassandra	Social Science	Psychology	Masters
9.	Bishnoi	Indra	Social Science	Psychology	Doctoral
10.	Brainin	Leah	Social Science	Psychology	Doctoral
11.	Brandt	Erin	Science	Biology	Post-Doctoral
12.	Brashears	Bailey	Social Science	Psychology	Doctoral
13.	Brooks	Jeffrey	Engineering	Mechanical & Materials Engineering	Post-Doctoral
14.	Brooks	Gregory	Social Science	Psychology	Doctoral
15.	Budzinski	Roberto	Science	Mathematics	Post-Doctoral
16.	Chabin	Thibault	Social Science	Psychology	Post-Doctoral
17.	Chadwick	Caroline	Social Science	Psychology	Doctoral
18.	Charmi Motlagh	Saba	Schulich	Neuroscience	Masters
19.	Chan	Gratiana	*Science	Neuroscience	Undergraduate
20.	Chan	June	----	----	Undergraduate
21.	Codol	Olivier	Social Science	Psychology	Post-Doctoral
22.	Compton	Shannon	Schulich	Neuroscience	Doctoral
23.	Correa	Susana	Schulich	Neuroscience	Masters
24.	Corrigan	Benjamin	Schulich	Physiology & Pharmacology	Doctoral
25.	Cruz	Anthony	Social Science	Psychology	Masters
26.	Cui	Leonardo	----	----	Undergraduate

WIN	Trainees	*Self-reported data	Faculty	Department	Career Stage
27.	Dalvit Carvalho da Silva	Rodrigo	Engineering	Biomedical Engineering	Doctoral
28.	Davidson	Emily	*Science	Neuroscience	Masters
29.	Davoudi	Erisa	Health Sciences	----	Masters
30.	Doyle	Marcus	Schulich	Physiology & Pharmacology	Masters
31.	Fallah	Aria	Social Science	Psychology	Masters
32.	Feng	Yiqiao	Schulich	Neuroscience	Undergraduate
33.	Frame	Ariel	Science	Biology	Doctoral
34.	Fulcher	Niveen	Schulich	Anatomy & Cell Biology	Doctoral
35.	Gabel	Lindsay	Social Science	Psychology	Doctoral
36.	Gandhi	Shreya	Schulich	Clinical Neurological Sciences	Undergraduate
37.	Hannah	Jaimy	Social Science	Psychology	Doctoral
38.	Hannah	Kara	Social Science	Psychology	Doctoral
39.	Hare	Carolynn	Social Science	Psychology	Doctoral
40.	Harimohan	Ashwin	Schulich	Neuroscience	Doctoral
41.	He	Chenxi	Social Science	Psychology	Post-Doctoral
42.	Heidari	Peyman	Social Science	Psychology	Masters
43.	Helal	Bahaaldin	Engineering	Biomedical Engineering	Masters
44.	Henadeerage Don	Dimuthu	Engineering	Biomedical Engineering	Doctoral
45.	Henderson	Kimberley	Social Science	Psychology	Masters
46.	Henry	Chloe	Social Science	Psychology	Masters
47.	Hersey	Ashlyn	Schulich	Neuroscience	Undergraduate
48.	Hopper	Justin	Social Science	Psychology	Masters
49.	Horner	Abbey	Social Science	Psychology	Undergraduate
50.	Hostetler	Nathan	Schulich	Medicine	Undergraduate
51.	Hu	Yu	Science	Computer Science	Doctoral
52.	Ibrahim	Pierre	Schulich	Medical Biophysics	Undergraduate
53.	Ignaszewski	Julia	Social Science	Psychology	Masters
54.	Jafari	Azadeh	Schulich	Medical Imaging	Doctoral
55.	Jahanian	Mansoure	Schulich	Medicine	Masters
56.	Jonnalagadda	Akshaj	Social Science	Psychology	Undergraduate
57.	Jung	Jieun	----	----	Undergraduate
58.	Kai	Jason	Schulich	Medical Biophysics	Doctoral
59.	Kalra	Priya	Social Science	Psychology	Post-Doctoral
60.	Karat	Bradley	Schulich	Neuroscience	Doctoral
61.	Kashefi	Mehrdad	Schulich	Neuroscience	Masters
62.	Kazazian	Karnig	Schulich	Physiology & Pharmacology	Doctoral
63.	Kearsley	Sarah	Schulich	Neuroscience	Doctoral
64.	Kelly	Sophie	Schulich	Clinical Neurological Sciences	Masters
65.	Kent	Michaela	Schulich	Neuroscience	Doctoral
66.	Khasheipour	Khashayar	Social Science	Psychology	Undergraduate
67.	Kolisnyk	Matthew	Social Science	Psychology	Masters

WIN	Trainees	*Self-reported data	Faculty	Department	Career Stage
68.	Krishnamoorthy	Venkatasubramanian	Schulich	Physiology & Pharmacology	Post-Doctoral
69.	Krupa	Jordan	Schulich	Neuroscience	Doctoral
70.	Laforge	Geoffrey	Schulich	Physiology & Pharmacology	Post-Doctoral
71.	Lagace-Cusaic	Rebekka	Social Science	Psychology	Doctoral
72.	Lammert	Jessica	Social Science	Psychology	Doctoral
73.	Lowe	Cassandra	Social Science	Psychology	Post-Doctoral
74.	Luan	Siyang	Health Sciences	----	Masters
75.	Lyons	Kathleen	Social Science	Psychology	Doctoral
76.	Mahmoudian	Borna	Schulich	Physiology & Pharmacology	Doctoral
77.	Mann	Rajkamalpreet	Schulich	Anatomy & Cell Biology	Doctoral
78.	Marshall	Samantha	Health Sciences	Kinesiology	Masters
79.	Martin	Erwan	*Science	Neuroscience	Doctoral
80.	McKenzie	Chelsea	Brescia University College	Psychology	Undergraduate
81.	McNaughton	Ethan	Schulich	Medicine	Undergraduate
82.	Mei	Jie	Science	Computer Science	Post-Doctoral
83.	Mekhaie	David	Social Science	Psychology	Masters
84.	Meshkinnejad	Rouzbeh	Science	Computer Science	Masters
85.	Michaels	Jonathan	Schulich	Physiology & Pharmacology	Post-Doctoral
86.	Moreau	Christine	Social Science	Psychology	Doctoral
87.	Mosier Farquharson	Meaghan	Social Science	Psychology	Undergraduate
88.	Moulavi-Ardakani	Reza	Schulich	Physiology & Pharmacology	Masters
89.	Mulgrew	Jordan-Jerrica	Social Science	Psychology	Doctoral
90.	Nave	Karli	Social Science	Psychology	Post-Doctoral
91.	Neto	Emma	Social Science	Psychology	Masters
92.	Nettekoven	Caroline	Science	Computer Science	Post-Doctoral
93.	Nichols	Emily	Education	----	Post-Doctoral
94.	Novi Junior	Sergio Luiz	Schulich	Physiology & Pharmacology	Post-Doctoral
95.	Olamide	Adebiyi	Schulich	Physiology & Pharmacology	Post-Doctoral
96.	Onuska	Kate	Schulich	Physiology & Pharmacology	Doctoral
97.	Palczy	Sydney	Schulich	Neuroscience	Masters
98.	Palmer	Daniel	Schulich	Physiology & Pharmacology	Post-Doctoral
99.	Pasini	Federico William	Science	Mathematics	Post-Doctoral
100.	Pathak	Aishwarya	Science	Mathematics	Doctoral
101.	Pena	Miguel	Schulich	Paediatrics	Doctoral
102.	Pinho	Ana Luísa	Science	Computer Science	Post-Doctoral
103.	Poulin	Joshua	Social Science	Psychology	Undergraduate
104.	Pradeepan	Kartik	Schulich	Neuroscience	Doctoral
105.	Prenger	Maggie	Schulich	Physiology & Pharmacology	Doctoral
106.	Princz-Lebel	Oren	Schulich	Physiology & Pharmacology	Doctoral
107.	Purkis	Christopher	Social Science	Psychology	Masters
108.	Qiu	Tim	Social Science	Psychology	Masters

WIN	Trainees	*Self-reported data	Faculty	Department	Career Stage
109.	Rafeh	Reebal	Social Science	Psychology	Doctoral
110.	Rai	Harleen	Schulich	Neuroscience	Masters
111.	Rankaduwa	Sidath	Schulich	Neuroscience	Doctoral
112.	Rizwan	Laiba	Social Science	Psychology	Masters
113.	Rodriguez Ruiz	Mar	Schulich	Anatomy & Cell Biology	Post-Doctoral
114.	Rovetti	Joseph	Social Science	Psychology	Masters
115.	Ruiz Pardo	Ana	Social Science	Psychology	Doctoral
116.	Salagovic	Cailey	Social Science	Psychology	Doctoral
117.	Sarikahya	Mohammed	Schulich	Anatomy & Cell Biology	Doctoral
118.	Scheerer	Nichole	Social Science	Psychology	Post-Doctoral
119.	Schneeberger	Laura	Social Science	Psychology	Masters
120.	Seguin	Diane	Education	----	Post-Doctoral
121.	Seif	Ala	Social Science	Psychology	Doctoral
122.	Selvanayagam	Janahan	Schulich	Physiology & Pharmacology	Doctoral
123.	Shahshahani	Ladan	Science	Computer Science	Doctoral
124.	Shanks	Hayley	Schulich	Neuroscience	Doctoral
125.	Sidhu	Riya	Social Science	Psychology	Doctoral
126.	Sinha	Niki	Social Science	Psychology	Doctoral
127.	Smith	Carly	Schulich	Neuroscience	Undergraduate
128.	Solaja	Dami	----	----	Undergraduate
129.	Stewart	Emma	Social Science	Psychology	Masters
130.	Sunstrum	Julia	Schulich	Physiology & Pharmacology	Doctoral
131.	Swaminathan	Swathi	Social Science	Psychology	Post-Doctoral
132.	Tafakkor	Ali	Schulich	Medicine	Masters
133.	Taha	Alaa	Engineering	Biomedical Engineering	Masters
134.	Tang	Lingkai	Engineering	Biomedical Engineering	Doctoral
135.	Tousi	Ehsan	Social Science	Psychology	Doctoral
136.	Tu	Jessie	Schulich	Physiology & Pharmacology	Undergraduate
137.	Turner	Kate	Social Science	Psychology	Masters
138.	Van Hedger	Kathryne	Schulich	Clinical Neurological Sciences	Post-Doctoral
139.	Von Handorf	Kristi	Social Science	Psychology	Doctoral
140.	Wah	Deanne	Social Science	Psychology	Doctoral
141.	Whitwell	Rob	Social Science	Psychology	Post-Doctoral
142.	Wong	Raymond	Schulich	Neuroscience	Doctoral
143.	Xiang	Jinkang	Social Science	Psychology	Doctoral
144.	Yalda	Nardeen	Social Science	Psychology	Undergraduate
145.	Yartey	Esther	Science	Mathematics	Doctoral
146.	Yu	Eric	Schulich	Physiology & Pharmacology	Undergraduate
147.	Yu	Soojung	Schulich	Clinical Neurological Sciences	Masters
148.	Zargarnezhad	Nima	Social Science	Psychology	Masters
149.	Zheng	Alice	Schulich	Anatomy & Cell Biology	Doctoral
150.	Zhi	Da	Science	Computer Science	Doctoral

WIN Trainees	*Self-reported data	Faculty	Department	Career Stage
151. Zhou	Justin	Social Science	Psychology	Undergraduate

Partners & Collaborators	Faculty or Affiliation	Member Status
1. Cléry	Justine	Researcher (McGill University)
2. Sorzano	Rochelle	Health sector knowledge user (Research Coordinator, Children's Hospital, LHSC)

Affiliated Staff	Faculty/Department	Member Status
1. Abbareddy	Lipika	Schulich/ Physiology & Pharmacology
2. Asgarian	Sepehr	Science/Computer Science
3. de Oliveira	Cleusa	Schulich/ Anatomy & Cell Biology
4. Dumont	Julie	Western Research/ BrainsCAN/Rodent Core
5. Durand	Nathan	Health Sciences/Physical Therapy
6. Flemming	Krystal	Education
7. Gangwani	Jiya	----
8. Goffin	Bea	Social Science/Psychology
9. Gonzalez	Laura	Western Research/ BrainsCAN/HCScore
10. Hollywood	Sarah	Schulich/Clinical Neurological Sciences
11. Kuehn	Tristan	Science/Western Research/Open Science
12. Lourdes	Florence	Western Research/WIN (previously Social Science/Psychology/Brain and Mind)
13. Macdonald	Ysabel	Western Research/ BrainsCAN/HCScore
14. Memar	Sara	Schulich/ Physiology & Pharmacology
15. Muir	David	Western Research/ Innovation and Strategic Partnerships
16. Pavich	Dawn	Social Science/Psychology
17. Quinlan	Derek	Western Research/ BrainsCAN/HCScore
18. Rochon	Chantal	Western Research/ BrainsCAN/HCScore
19. Soanes	Denise	Social Science/Psychology/Brain and Mind
20. Staecker	Lara	Schulich/Neuroscience
21. Stubbs	Kevin	Western Research/ BrainsCAN/HCScore
22. Vijayraghavan	Susheel	Schulich/ Physiology & Pharmacology
23. Wild	Conor	Schulich/ Physiology & Pharmacology
24. Witt	Suzanne	Western Research/ BrainsCAN/Comp Core
25. Yang	Haitao	Western Research/ BrainsCAN/HCScore/Comp Core

Appendix B – WIN Prestigious Awards & Recognitions

Research Chairs	Royal Society of Canada Fellows
<ul style="list-style-type: none"> ▪ Michael Anderson – Canada Research Chair in Philosophy of Science (SSHRC Tier I) ▪ Daniel Ansari – Canada Research Chair in Developmental Cognitive Neuroscience (SSHRC Tier II) ▪ Corey Baron – Canada Research Chair in Diffusion Magnetic Resonance Imaging (CIHR Tier II) ▪ Tim Bussey – Western Research Chair in Cognitive Neuroscience (Robarts) ▪ Jody Culham – Canada Research Chair in Immersive Neuroscience (NSERC Tier I) ▪ Jörn Diedrichsen – Western Research Chair in Motor Control and Computational Neuroscience ▪ Emma Duerden – Canada Research Chair in Neuroscience & Learning Disorders (CIHR Tier II) ▪ Barbara Fenesi – Canada Research Chair in the Science of Learning (SSHRC Tier II) ▪ Ingrid Johnsrude – Western Research Chair in Cognitive Neuroscience (Psychology) ▪ Ali Khan – Canada Research Chair in Computational Neuroimaging (CIHR Tier II) ▪ Haojie Mao – Canada Research Chair in Head Mechanics (NSERC Tier II) ▪ Natasha Mhatre – Canada Research Chair in Invertebrate Neurobiology (NSERC Tier II) ▪ Rajnikant Patel – Canada Research Chair in Advanced Robotics and Control (NSERC Tier I) ▪ Marco Prado – Canada Research Chair in Neurochemistry of Dementia (CIHR Tier I) ▪ Andrew Pruszyński – Canada Research Chair in Sensorimotor Neuroscience (CIHR Tier II) ▪ Lisa Saksida – Canada Research Chair in Translational Cognitive Neuroscience (CIHR Tier I) ▪ Kevin Shoemaker – Canada Research Chair in Integrative Physiology of Exercise and Health (CIHR Tier I) 	<ul style="list-style-type: none"> ▪ Vladimir Hachiski – Schulich School of Medicine & Dentistry (2014) / McLaughlin Medal (2016) ▪ Ravi Menon – Medical Biophysics (2019) ▪ Rajnikant Patel – Electrical & Computer Engineering (2009) ▪ Lisa Saksida – Psychology (2020)
	Distinguished University Professor Awards
	<ul style="list-style-type: none"> ▪ Mel Goodale – Professor, Psychology (2007) ▪ Rajini Patel – Professor, Electrical & Computer Engineering (2005) ▪ Jane Rylett – Professor, Physiology & Pharmacology (2013) ▪ Kevin Shoemaker – Professor, School of Kinesiology (2016)
	Faculty Scholars Award
	<ul style="list-style-type: none"> ▪ Daniel Ansari – Social Science (2011) ▪ Lisa Archibald – Communication Sciences and Disorder (2015) ▪ Janis Oram Cardy – Communication Sciences and Disorder (2018) ▪ Brian Corneil – Physiology and Pharmacology (2017) ▪ Jody Culham – Psychology (2008) ▪ Jonathan De Souza – Music Research & Composition (2020) ▪ Jayne Garland – Health Sciences (2006) ▪ Jessica Grahn – Psychology (2016) ▪ Paul Gribble – Psychology (2015) ▪ Matthew Heath – Health Sciences (2012) ▪ Erin Heerey – Psychology (2020) ▪ Marc Joanisse – Psychology (2014) ▪ Stefan Köhler – Psychology (2014) ▪ Ruth Lanius – Schulich School of Medicine & Dentistry (2006) ▪ Steven Laviolette – Anatomy & Cell Biology (2018) ▪ Marco Prado – Medicine & Dentistry (2013) ▪ Kevin Shoemaker – Health Sciences (2007) ▪ Ryan Stevenson – Psychology (2022)
Endowed/Industry Chairs	
<ul style="list-style-type: none"> ▪ Siobhan Schabrun – FHS - William and Lynne Gray Research Chair in Mobility & Activity 	
NSERC E.W.R. Steacie Memorial Fellowship	Hellmuth Prizes for Achievement in Research
<ul style="list-style-type: none"> ▪ Daniel Ansari (2015) ▪ Jody Culham (2010) ▪ Jessica Grahn (2021) ▪ Ingrid Johnsrude (2009) 	<ul style="list-style-type: none"> ▪ Mel Goodale – Psychology/Physiology & Pharmacology (2006) ▪ Adrian Owen – Psychology/Physiology & Pharmacology (2013)
Fellow of the Royal Society (UK)	RSC College for New Scholars, Artists & Scientists
<ul style="list-style-type: none"> ▪ Mel Goodale – Psychology (2013) 	<ul style="list-style-type: none"> ▪ Jessica Grahn – Psychology (2020)
Order of the British Empire	Richard C. Tees Award -Distinguished Leadership
<ul style="list-style-type: none"> ▪ Adrian Owen – Psychology (2019) 	<ul style="list-style-type: none"> ▪ Mel Goodale – Psychology (2008)

Appendix C – WIN Executive Committee



Melvyn Goodale, Psychology and Physiology & Pharmacology

Mel's research explores visual perception and visually guided actions, using behavioral studies, fMRI, and neuropsychology.

Interim Director for the Western Institute for Neuroscience: responsible for leading the initial planning and implementation of the Institute, along with the Director of Research Western Institutes and the Vice President of

Research, and laying the groundwork for governance structure, membership and committee recruitment, and defining strategic priorities.



Emma Duerden, Education

Emma's research focuses on the impact of early adversity on cognitive ability in infants and school-aged children with autism spectrum disorder or who are born very preterm.

Associate Director Development/Training Initiatives: responsible for liaising between the Institute and relevant units or academic programs, advising and supporting the Director in operationalizing and implementing

strategic development/training activities such as professional development workshops, learning modules, clinical/applied research fellowships, and/or graduate research awards.



John Paul Minda, Psychology

Paul studies how and why humans organize information into categories and concepts and how the resulting conceptual structure influences thinking and behaviour.

Associate Director Member Initiatives: responsible for advising and supporting the Director in operationalizing and implementing strategic priorities via local events such as seminars/showcase series, think

tanks/brainstorming sessions, networks, and partner-sponsored events.



Andrew Pruszynski, Physiology & Pharmacology

Andrew studies the neural mechanisms of reaching, grasping and object manipulation to yield better treatments for recovering hand and arm function following peripheral nerve injury, spinal cord injury, and stroke.

Associate Director Research Initiatives and Innovation: responsible for advising and supporting the Director in operationalizing and implementing strategic priorities via research programs/activities such as catalyst/seed grant

programs, trainee research awards, strategic fund program, commercialization mentorship program, innovation competition.



Shawn Whitehead, Anatomy & Cell Biology

Shawn's research tackles neurodegenerative disease by using integrative and translational models to investigate how different brain regions exhibit variable vulnerabilities to stress and injury.

Associate Director Clinical Integration: responsible for advising and supporting the Director in operationalizing and implementing strategic programs and activities that aim to foster greater collaboration among clinical and basic researchers.



Sandrine de Ribaupierre, Clinical Neurological Sciences

Sandrine's main research areas are medical education, using virtual and augmented reality as an educational tool, with a special interest in neuroanatomy. Her clinical research focuses on epilepsy, cognition and functional imaging.

Member-at-Large: responsible for bringing unique expertise/perspective that will support the work of the Director and Associate Directors. In the case of WIN, this individual would provide the expertise/perspective of the clinical community.

Appendix D – WIN Fellowship Program



Umamaheswari Venkatasubramanian

After studying Electrical Engineering in India and the US, Uma completed a PhD in Neuroscience at the University of Otago in New Zealand. For her doctorate work, she used effective connectivity and other network properties to detect and predict microsleeps. During her fellowship here at Western, she will be working with Rishi Ganesan (Pediatrics) and Yalda Mohsenzadeh (Computer Science) on a project examining brain activity (EEG) in critically-ill children with delirium. Her research will provide insights into the underlying mechanisms of delirium and could lead to the development of diagnostic biomarkers.



Roberto Budzinski

Roberto has a PhD in Physics from the Federal University of Paraná in Brazil. His doctoral research was focused on the synchronization and collective activity of neural systems. He will be working with Seyed Mirsattari (Clinical Neurological Sciences) and Lyle Muller (Mathematics) on a project that combines mathematical modeling and computational neuroscience with clinical data from epilepsy patients to better understand the pathological synchronization of neural activity that occurs during seizures. This will provide new insights into the large-scale cortical dynamics of brain activity that characterize epilepsy – and may lead to better ways of treating this disease.



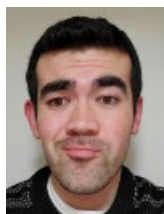
Kathleen Lyons

Kathleen is currently completing her PhD at Western under the supervision of Adrian Owen (Physiology & Pharmacology / Psychology) and Bobby Stojanoski (Psychology). Her dissertation research is primarily focused on understanding how differences in cognitive ability are associated with neural responses to naturalistic stimuli across development. Kathleen will be working with Ryan Stevenson (Psychology) and Rob Nicolson (Psychiatry) to investigate the differences in sensory processing in children with autism and ADHD and how those differences relate to the clinical and cognitive features of these disorders. The findings emerging from this project could shape the strategies used to support children with these disorders.

Appendix E – Undergraduate Student Research Internships



Micah Evans is supervised by Anne Simon in Biology. They will be working on a project looking at the ways in which the social environment can influence behaviour by altering the neurocircuitry that integrates social cues and regulates responses to others. Using the vinegar fly as a model organism, Micah will work closely with senior PhD candidate, Ryley Yost, screening for genes encoding post-synaptic proteins that play a role social behaviour.



Adam Hull is working with Psychology's Bruce Morton. Adam will explore possible developmental implications of dynamic variability in brain activity and its links with individual differences in psychological functioning. Using resting-state fMRI data from the Adolescent Brain and Cognitive Development consortium (ABCD), Adam will use multiple measures of entropy within frontoparietal control networks to examine possible associations with intellectual performance.



Shreyashish Roy-Chowdhury is working with Ana Suller Marti in Clinical Neurological Sciences. They will be working with patients suffering from medically intractable epilepsy. Some of these patients require intracranial electrodes to localize their epileptogenic zone. Sometimes, seizure frequency is reduced post-implantation, without other surgical interventions. Shreyashish will examine this effect and attempt to identify the possible associated factors.



Ryu Lien is working with the School of Kinesiology's Lindsay Nagamatsu. Their project centres on people who are at risk for diabetes. Such individuals often have white matter atrophy, decreased cognitive function, and an increased risk of Alzheimer's disease. Recently, resistance training has been shown to lower white matter atrophy and white matter lesion volume. Ryu's work aims to measure the effects of resistance training on structural connectivity in at-risk adults using Diffusion Tensor Imaging.