

# THE INTEGRATED PROGRAM IN NEUROSCIENCE AT MCGILL UNIVERSITY



McGill

T1w

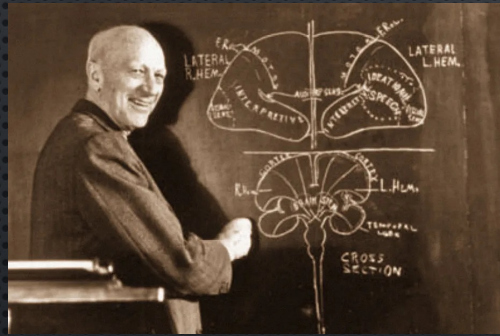
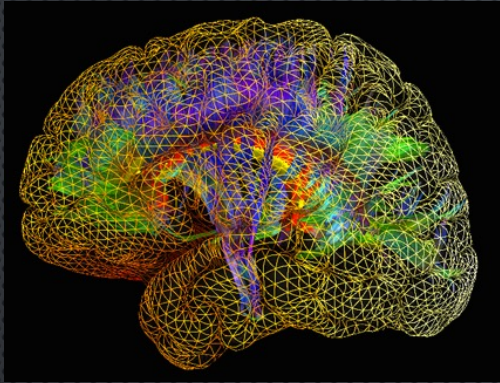
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GM

WM

CSF



Founded in 1821

## McGill University

- 🇨🇦 Ranked 26<sup>th</sup> in Life Sciences & Medicine on the QS World University Ranking for 2023
- 🇨🇦 #1 medical-doctoral university in Canada according to Macleans.
- 🇨🇦 42% of the student population is comprised of international students
- 🇨🇦 62% of IPN students are pursuing their PhD.

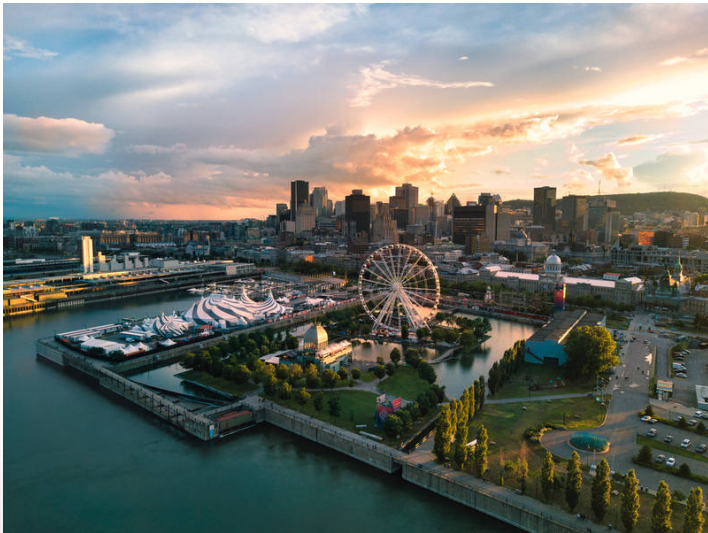
## Neuroscience at McGill

- 🇨🇦 Home of Wilder Penfield, Donald Hebb, Brenda Milner and other world-renowned neuroscientists
- 🇨🇦 >10 McGill institutes dedicated to research in neuroscience



# Montreal is a vibrant city and university hub

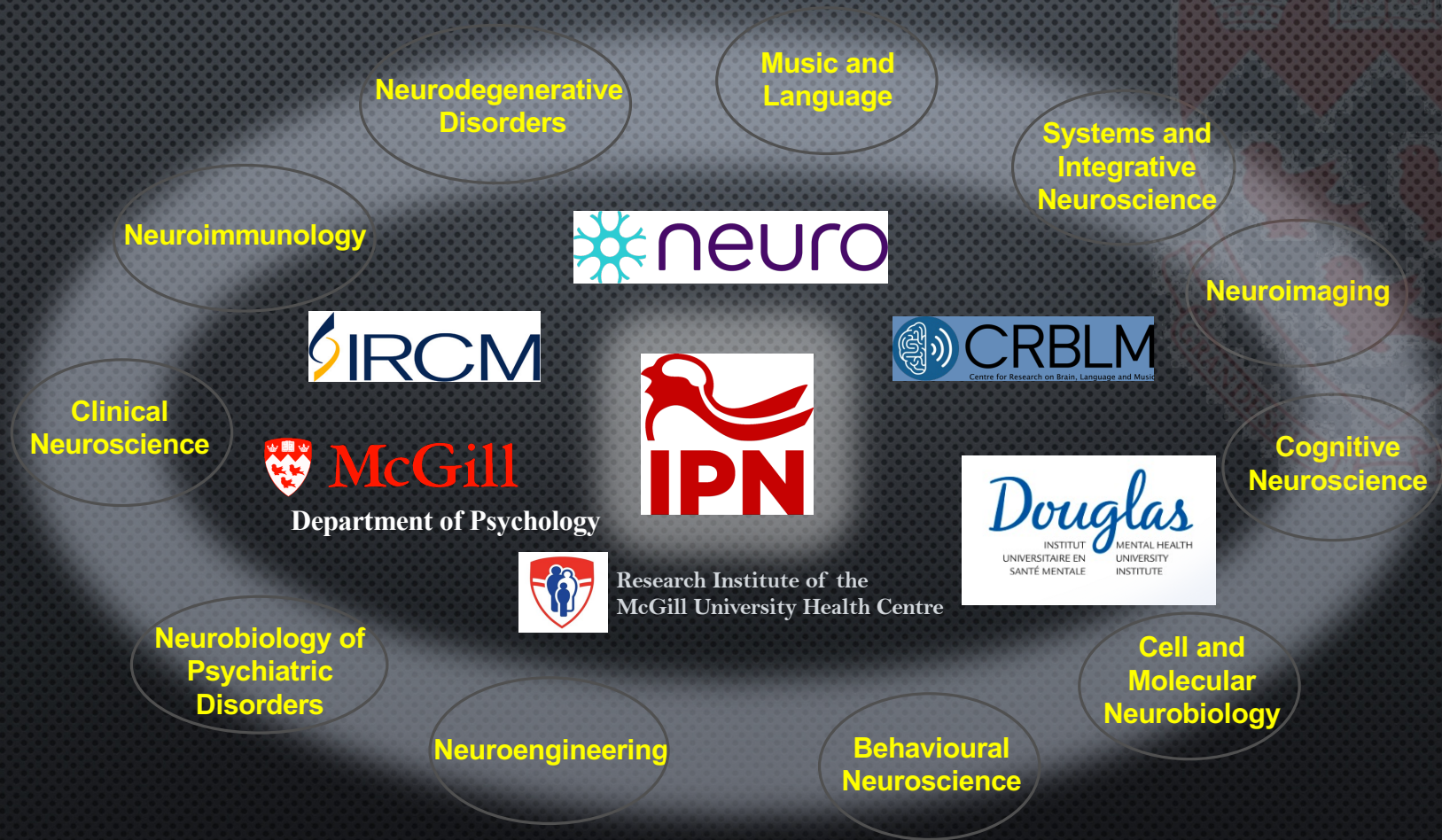
- Montreal is one of the principal metropolises in Canada, alongside Vancouver and Toronto.
- A unique mix of modernism and history, founded by the Frenchman Maisonneuve in 1642.
- A vibrant and diverse culture – The #2 largest French speaking city on Earth.
- A great university city with 4 major universities.
  - Many festivals, museums, renown gastronomy, and special events all-year round



## WHO WE ARE...

- THE **INTEGRATED PROGRAM IN NEUROSCIENCE (IPN)** AT **MCGILL UNIVERSITY** IS THE LARGEST GRADUATE NEUROSCIENCE PROGRAM IN NORTH AMERICA, WITH NEARLY 600 ACTIVELY ENROLLED MASTERS AND DOCTORAL STUDENTS.
- INTERDEPARTMENTAL PROGRAM THAT INCLUDES OVER 230 PROFESSORS ACROSS MCGILL'S MANY CAMPUSES, INCLUDING THE NEURO, DOUGLAS HOSPITAL, IRCM, MONTREAL GENERAL.
- NEUROSCIENCE AT MCGILL HAS BEEN RECOGNIZED FOR ITS EXCELLENCE BY THE CANADIAN GOVERNMENT WITH ITS AWARDING OF THE \$84M "HEALTHY BRAINS FOR HEALTHY LIVES" CANADA FIRST RESEARCH EXCELLENCE FUND.
- MCGILL IS ONE OF THE WORLD'S MOST IMPORTANT HUMAN BRAIN IMAGING CENTRES. THE MNI STANDARD BRAIN IS AMONG THE MOST WIDELY USED BRAIN ATLASES FOR ALL MRI WORK.
- **HISTORICAL LANDMARK EVENTS IN NEUROSCIENCE AT MCGILL :**
  - Discovery of inhibitory neurotransmission (Florey, Krnjevic)
  - The Montreal Procedure (Wilder Penfield)
  - Donald Hebb's "Organization of Behavior"
  - Brenda Milner ("the founder of neuropsychology", hemispheric specialization)
  - CNS myelin inhibition of neuronal growth (David & Aguayo)
  - McGill Pain Index (Melzack)

# Neuroscience is broad. So are we.



# The IPN is a research-focused degree program

Students receive most of their training in the laboratory doing research:

We have two required core courses for all students:

**Principles of Neuroscience 1 – Cellular & Molecular Neuroscience**

**Principles of Neuroscience 2 – Systems & Cognitive Neuroscience**

Students also must take a two day workshop on Research Ethics called “**Responsible Conduct in Research**”

MSc students must take at least one more graduate level neuroscience course

PhD students must take at least two more graduate level neuroscience courses

Examples of the >35 approved graduate level courses include:

- Statistics for Neuroscience
- Neuroimaging Data Science
- History of Neuroscience
- Current Topics in Neuroscience
- Computational Neuroscience
- Developmental Neurobiology
- Lab-to-World Entrepreneurship



# Stipend support guaranteed to all students

As an IPN student you are guaranteed to receive a stipend to cover at least full tuition/fees and health insurance plus a cost-of-living allowance linked to the Montreal consumer price index

MSc Students	QC			Out-of-province			International		
	Y1	Y2	Y3	Y1	Y2	Y3	Y1	Y2	Y3
	Living Allowance	\$21,183	\$21,183	\$21,183	\$21,183	\$21,183	\$21,183	\$21,183	\$21,183
EST tuition/fees/insurance	\$5,191	\$5,368	\$4,399	\$11,361	\$8,453	\$4,399	\$22,851	\$14,541	\$5,067
<b>TOTAL:</b>	<b>\$26,373</b>	<b>\$26,550</b>	<b>\$25,582</b>	<b>\$32,544</b>	<b>\$29,635</b>	<b>\$25,582</b>	<b>\$44,034</b>	<b>\$35,724</b>	<b>\$26,250</b>

PhD Students	Canadian		International	
	PHD1-PHD4	PHD5-PHD7	PHD1-PHD4	PHD5-PHD7
	Living Allowance	\$21,183	\$21,183	\$21,183
EST tuition/fees/insurance	\$5,191	\$4,399	\$20,811	\$5,067
<b>TOTAL:</b>	<b>\$26,373</b>	<b>\$25,582</b>	<b>\$41,994</b>	<b>\$26,250</b>

Top applicants are also eligible for recruitment awards of up to \$10,000 !!!

Living allowance is based on a 7.2% CPI increase in Montreal from Aug 2021-2022\*

Tuition/Fees/Insurance are estimated based on an anticipated 4% increase over 2022-23 rates

\*<https://statistique.quebec.ca/en/document/consumer-price-index-cpi/tableau/consumer-price-index-cpi-overall-index-canada-quebec-montreal-cma-monthly-data-not-seasonally-adjusted>

# Opportunities for awards and fellowships

- Numerous awards and funding opportunities for International and Canadian students, at both the M.Sc. and Ph.D. levels
- Many internship opportunities as well
- Awards:
  - 220+ competitive studentships awarded to IPN students
  - 91 federal and provincial awards



Bourses d'études  
supérieures du Canada

**Vanier**

Canada Graduate  
Scholarships

**Fonds de la recherche  
en santé**

**Québec**



**NSERC  
CRSNG**



# Leadership & Innovation

- **Graduate Students' Association for Neuroscience (GSAN):**  
Student society that brings all IPN students together via regular academic and social events
- **BrainReach:**  
Non-profit community outreach group, managed by IPN students, with the mission of teaching basic neuroscience to indigenous and underserved students across Quebec
- **NeuroLingo**  
Train with speaking coaches to give Ted-X style talks about your neuroscience research to the Montreal community and beyond.
- **InfoCerveau**  
Ask me anything service for the community. Answering questions about the brain and neurological disease.



# Annual scientific symposia and events

- **The IPN Retreat**  
Annual 2-day gathering of all IPN students and faculty to give talks, present posters, hear big name invited lectures, participate in career workshops and party.
- **The Bernice Grafstein Lecture in Neuroscience.**  
Star scientists from around the world invited to spend the day speaking and networking with the IPN community. Past speakers include:

Dr. Josh Gordon, NIMH Director

Dr. Marc Tessier-Lavigne, Stanford President

Dr. Lawrence Wald, Harvard MRI researcher

Dr. Huda Zoghbi, Gardner & Brain Prize winner

Dr. Adele Diamond, cognitive neuroscientist

Dr. Andrew Huberman, Hubermanlab podcast

And dozens more invited lectures taking place across campus every month for you to attend.



2018 Bernice Grafstein Lecture in Neuroscience  
Dr. Marc Tessier-Lavigne

# How to apply to the IPN?

<https://www.mcgill.ca/ipn/prospective/application>

1. Make sure your file on Slate is as complete as possible (personal statement, CV, letters of reference, unofficial transcripts, English competency, etc.) by the deadline. *Note that we don't need official transcripts until much later, but we do at least need an unofficial transcript from all the universities you attended.*
2. You should then identify supervisors you would like to work with. Our IPN supervisor database is a helpful resource for finding a lab. (<https://www.mcgill.ca/ipn/prospective/finding-supervisor>)
3. Upon coming to an agreement with a potential supervisor to join their lab, the supervisor will fill out an **IPN Letter of Agreement**, specifying the project, expectations for training and research, work hours and stipend. Read through it and reply by email if you accept.
4. Once you accept you will be recommended for admission and will start receiving official info.

We will continue accepting applications from Canadian applicants for a few more days.

Deadline to find a supervisor is **July 12, 2023**

# McGill University

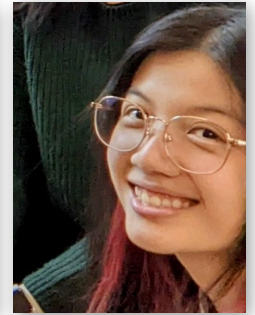
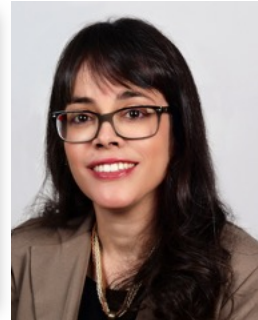
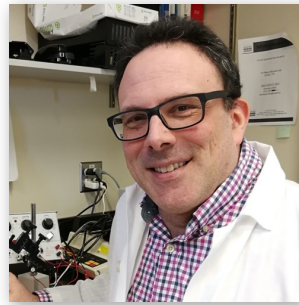
## Integrated Program in Neuroscience



Ready to support you.

**Director: Dr. Ed Ruthazer**

**Assoc Dir: Dr. Patricia Silveira**



Full-Time Staff:

- Katherine Vanka, Student Affairs Administrator
- Mirko Sablich, Admissions Coordinator
- Melissa Zhu, Student Affairs Coordinator
- Adriana Sgambetterra, Projects Administrator
- Mengting Hu, China Program Administrator



**Learn More & Connect**  
*[www.mcgill.ca/ipn](http://www.mcgill.ca/ipn)*



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