

Brenden Samuel Rabinovitch

brenden@brabinovitch.com · brabinovitch.com

EDUCATION

- Jun 2025 — Present **Doctor of Philosophy (PhD) — Candidate** · University of Toronto
- Sep 2023 — May 2025 **Master of Science (MSc)** · University of Toronto
- Sep 2019 — Jun 2024 **Honours Bachelor of Science (HSc)** · York University

PROFESSIONAL EXPERIENCE

- 2020 — 2024 **Head of Research** · North Toronto Neurology (formerly Neurology Centre of Toronto)
- 2021 — Present **Scientific Advisor** · 3graine, Medole Inc.
- 2021 — Present **Tutor and Educational Mentor** · Basecamp Tutors
- 2022 — 2023 **High School Biology and Chemistry Teacher** · Wiz Kidz Learning Centre

PEER-REVIEWED PUBLICATIONS

- 2026 **Rabinovitch BS***, Silverman N, Ji D, Shizgal D, Lewis EC, Carlen PL. Lysergic acid diethylamide modulates hippocampal and cortical local field potential oscillatory rhythms in male mice. *Brain Res.* 2026.
- 2025 **Rabinovitch BS***, Hu W, Tang C, Silverman N, Lewis EC, Carlen PL. Lysergic acid diethylamide inhibits status epilepticus and mortality in a mouse model of acute kainic acid-induced motor seizures. *Next Research.* 2025.
- 2025 Chen FY, Duckman JM, **Rabinovitch BS**, Hannesson KJ, Lewis EC. 19 patients report seizure freedom with medical cannabis oil treatment for drug-resistant epilepsy: a case series. *Front Neurosci.* 2025.
- 2023 Freidel N, Kreuder L, **Rabinovitch BS**, Chen FY, Huang RS, Lewis EC. Psychedelics, epilepsy, and seizures: A review. *Frontiers in Pharmacology.* 2023.
- 2023 Karzon Abrams S, **Rabinovitch BS**, Zafar R, Aziz AS, Cherup NP, McMillan D, Nielson J, Lewis EC. Persons With Spinal Cord Injury Report Peripherally Dominant Serotonin-Like Syndrome After Use of Serotonergic Psychedelics. *Neurotrauma Reports.* 2023.
- 2021 Diaz PL, Katz TM, Langleben AC, **Rabinovitch BS**, Lewis EC. Healing of a Chronic Pressure Injury in a Patient Treated With Medical Cannabis for Pain and Sleep Improvement: A Case Report. *Wound Manag Prev.* 2021.
- 2022 **Rabinovitch BS***, Diaz PL, Langleben AC, Katz TM, Gordon T, Le K, Chen FY, Lewis EC. Wait times and patient throughput after the implementation of a novel model of virtual care in an outpatient neurology clinic: A retrospective analysis. *J Telemed Telecare.* 2022.

* First author

CONFERENCE POSTERS & ABSTRACTS

- 2025 **Real-World Evidence of CBD and THC Efficacy in Pediatric Epilepsy Treatment: Retrospective Study of 124 Patients**
- 2025 **Lysergic acid diethylamide modulates hippocampal and cortical local field potential rhythms in vivo and is anti-convulsant in male mice**
- 2024 **Lysergic acid diethylamide (LSD) modulation of motor seizures and neural rhythms**
- 2023 **Loss of MDGA2 Impairs NMDAR-Dependent LTD During Peak Synaptic Pruning in Mouse CA1 Hippocampus**
- 2022 **A Mechanistic Approach to Psychedelic-Induced Long-Term Psychological Changes**

AWARDS, FELLOWSHIPS & GRANTS

- 2025-2026 **Ontario Graduate Scholarship (OGS)** · Province of Ontario/University of Toronto · \$15,000
- 2024-2025 **Canada Graduate Scholarship — Masters (CGS-M)** · Canadian Institutes of Health Research (CIHR) · \$27,000
- 2024-2025 **Accelerate Fellowship** · MITACS (co-sponsored by Avicanna Inc.) · \$45,000

2024	School of Graduate Studies (SGS) Conference Grant · University of Toronto · \$550
2024-2025	University of Toronto Fellowship · University of Toronto · \$3,000
2023-2024	University of Toronto Fellowship · University of Toronto · \$10,000
2022	Continuing Student Scholarship · York University · \$1000
2019	Faculty of Science Entrance Scholarship · Faculty of Science, York University · \$3000
2019	Entrance Scholarship for a grade average of 90-94.9% · York University · \$3000

PRESENTATIONS & TALKS

2026	LSD to Treat Epilepsy? Discovering how LSD Modulates Behavioural Seizures and Neural Oscillatory Rhythms
2024	LSD modulates neural rhythms and protects against status epilepticus and death in an in vivo model of acute seizures
2024	Lysergic acid diethylamide (LSD) exerts anti-seizure properties in temporal lobe seizures in mice

TEACHING — UNIVERSITY

Winter 2026	PSL 446/1446 Cellular Aspects of Neural Disorders · Teaching Assistant
Winter 2025	PSL 446/1446 Cellular Aspects of Neural Disorders · Teaching Assistant

TEACHING — HIGH SCHOOL

Winter 2023	SCH4U Chemistry 12 · Course Instructor
Fall 2022	SCH4U Chemistry 12 · Course Instructor
Summer 2022	SCH4U Chemistry 12 · Course Instructor
Spring 2022	SBI3U Biology 11 · Course Instructor

RESEARCH EXPERIENCE

Sep 2025 — Present	Graduate Student (PhD) · Bains Lab (Stressynomics Lab) · Dr. Jaideep Bains
Sep 2023 — May 2025	Graduate Student (MSc) · Carlen Lab · Dr. Peter Carlen
Feb 2024 — Jun 2025	Research Associate · Pneuma Science · Anya Ragnhildstveit
Aug 2020 — Aug 2024	Head of Research · Neurology Centre of Toronto · Dr. Evan Lewis
Sep 2022 — May 2023	Undergraduate Honours Thesis (HBSc) · Connor Lab · Dr. Steven Connor

REFERENCES

Available upon request.