


Conall Mac Cionnaith Ph.D.

I am a behavioural neurobiologist by training. My domain of expertise is in the neuroendocrine systems that underpin sexual behaviours and reproduction in mammals. During my academic career I developed a love for data and analytics. I have a passion for evaluating standards of evidence, data analysis and visualization, programming, and statistics. In my spare time, I play fiddle in an Irish music band, make cheese, and play Gaelic and Australian football.

Education

January
2023

● **Concordia University**

Ph.D. in Psychology  Center for Studies in Behavioural Neurobiology,
Montreal, Canada

Thesis: The role of oxytocin in the formation of conditioned mate preferences and the facilitation of reproductive responses in the female rat

2015

● **Maynooth University**

B.A. Hons. in Psychology  Maynooth, Ireland

Professional & Academic Experience

Present-
April
2022

● **Researcher**


Sobriety Homes Foundation  Quebec, Canada

- Researched and provided consultation on provincial medical licensing requirements for medical practitioners working with the Sobriety Homes Foundation.
- Researching and providing consultation on providers of medical billing services.
- Evaluating the UX experience and efficacy of apps for people in addiction recovery.

January
2023-
2016

● **Ph.D. Researcher**


Supervisor: Drs. Wayne Brake and Jim Pfaus

 Center for Studies in Behavioural Neurobiology,
Montreal, Canada

- Investigated the roles of oxytocin in coordinating the rewarding aspects of copulation with the behavioural, neurobiological, and endocrine responses that facilitate pregnancy in female rats.
- Used, developed, and refined a variety of biological assays for in-house research purposes, i.e., immunohistochemistry, ELISA assays for circulating hormones and proteins.
- Assisted in the development and testing of pre-clinical animal models for sexual disorders in rats and industry-funded early pre-clinical research.
- Published peer-reviewed animal research, literature reviews, and commentaries in field of sexual and reproductive health.
- Designed experiments and conducted statistical analyses (primarily with R programming)

Contact Info

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 [Scholar Profile](#)

 <https://conallmacc.com>

 [conall-mac-cionnaith](#)

Awards

2023 Josef Hynie Award for Best Paper in Sexology

2020 Concordia Merit Scholarship, Concordia University

2019 Concordia Merit Scholarship, Concordia University.

2015-2018 International Tuition Award of Excellence, Concordia University.

2015 W.J Smyth Award, Department of Psychology, Maynooth University.

2011 Entrance Scholarship, Maynooth University.

July-May
2021

● **Course Instructor**

Concordia University

📍 Montreal, Quebec, Canada

- Taught and delivered an introductory neuroscience course *Brain and Behaviour* to over 250 students.
- Resolved course disputes and handled confidential data.

2022
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2015

● **Teaching Assistant**

Department of Psychology, Concordia University 📍 Montreal, Canada

- Created and delivered course material to students in a small seminar-based classes.
- Supervised and provided input and feedback to undergraduate thesis students.



Community Service

2022
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2020

● **Founding member of the Concordia University chapter of the CIHR* Institute of Gender and Health**

*Canadian Institutes of Health Research

📍 Concordia University, Montreal, Canada

- Organized mission-driven events to further the inclusion of sex and gender in biomedical research.
- Provided input and feedback to policy decisions.

2019
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2017

● **Pint of Science**

Event Manager Pint of Science

📍 Montreal Quebec

- Helped choose themes and topics for a week-long event providing accessible scientific talks to the public.
- Event organization and planning.
- Welcoming and introducing speakers.



Skills

● **Data Analysis and Experimental Design**

- Formalizing research hypotheses and designing experiments
- Experienced with statistical testing and modelling (viz. Linear Models, Bayesian statistics, MCMC models, Mixed Linear Models)
- Advanced skills in R programming for statistical analysis
- Taught and led workshops and seminars on statistical analyses

● **Programming**

- R programming for statistics (Advanced).
- OOP and API requests with Python (Intermediate).
- Basic SQL requests (more advanced with R to SQL interface e.g., dbplyr package).
- Functional HTML and CSS.

● **Communication Skills**

- Extremely proficient verbal and writing communicator (I have published several articles in popular media communicating scientific findings).
- Excellent ability to convey complicated information to non-experts (teaching and tutoring neuroscience and statistics).
- Data visualization skills .
- Confident and competent presenter.