



uOttawa



Placenta Lab

Dr. Shannon Bainbridge
University of Ottawa

Postdoctoral position available for a Molecular Biologist or Biochemist with research experience related to maternal-fetal health

A postdoctoral position is currently available in the laboratory of Dr. Shannon Bainbridge, within the Interdisciplinary School of Health Sciences and the Department of Cellular and Molecular Medicine at the University of Ottawa (Ottawa, Ontario, Canada). The Placenta Lab takes an interdisciplinary approach to identify the mechanisms that underlie abnormal placental development and function, and translates these findings into clinically useful tools aimed at improving pregnancy outcomes. Dr. Bainbridge's research program has most recently pushed the conventional paradigm of placental pathophysiology in cases of preeclampsia, identifying distinct molecular subclasses of disease. The advertised postdoctoral position will continue exploratory investigations into the underlying mechanism of placental dysfunction across these distinct subtypes of preeclampsia. Ongoing projects within the lab utilize a combination of clinical cohort and case-controls studies, in vitro human cell/tissue culture and in vivo rodent models of placental dysfunction. Methodologies commonly used include RNA/protein quantification and profiling, immunohistochemistry and histopathology, in vitro functional assays and detailed phenotyping of animal models of disease. The Placenta Lab is well funded through the Canadian Institute of Health Research, the Preeclampsia Foundation and the Canadian Foundation for Innovation.

We are currently looking for a highly motivated and dedicated individual who has a solid research track record in the fields of molecular biology and/or biochemistry. Individuals with experience handling large scale -Omics datasets and bioinformatics analysis and/or previous research experience related to maternal-fetal-placental health would be given preference. The ideal applicant will be detail-oriented, capable of multitasking, demonstrate a collaborative spirit, and committed to research excellence. He or she will be capable of project planning, effective data recording and evaluation, demonstrate good organizational and communication skills. The position is available immediately.



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Requirements:

- PhD in Molecular Biology, Biochemistry or Cell Biology (candidates with degrees in bioinformatics also encourage to apply)
- Prior laboratory experience in cell culture, animal models, RNA/protein quantification, and immunohistochemistry is a requirement
- Prior laboratory experience in –omics dataset/bioinformatics analysis, mitochondrial bioenergetics (Seahorse technology), trophoblast biology and/or embryology is advantageous.
- Proven English language proficiency
- Efficient communicator and presenter
- Competitive research experience
- Ability to conduct independent scholarly research and develop new methods and protocols
- Capable of detail-oriented project planning, recording and evaluation of data
- Interest and proficiency in lab management, grant writing and supervision of junior lab members
- Active participation in seminars, lectures and presentation at international meetings

If you are interested in joining the Placenta Lab please submit a cover letter (indicating why you are a good fit for this position), a current CV and three references via email to Shannon.bainbridge@uottawa.ca.