

# Supervisor & Project Information Form

Please complete and return via email ONLY to [gdip.hres@utoronto.ca](mailto:gdip.hres@utoronto.ca) by **Monday September 30, 2019**

## Supervisor Information

*MUST have unrestricted SGS appointment (appointment to supervise graduate students)*

<b>Name:</b> Dr. Anne S. Bassett	<b>Email:</b> anne.bassett@utoronto.ca
<b>SGS Department:</b> IMS	<b>Field of Research:</b> Genetics; Developmental diseases of the heart and brain
<b>Research Institution affiliation (if applicable):</b> Campbell Family Mental Health Research Institute Toronto General Research Institute	<b>Location of Work:</b> 33 Russell Street, Main Building, 1/F, Toronto, ON M5S 2S1
<b>Student contact time (number of hours per week YOU are available to the student for any concerns or to review progress):</b> 2 hours per week, on average	

***Project Information (will be posted on GDipHR website for student access)***

**TITLE:** Identifying genetic and clinical predictors for congenital cardiac and other developmental diseases

**DESCRIPTION (MAX 500 WORDS):**

There is a large genetic component to risk for developmental conditions, including congenital heart disease and psychiatric disorders. We study adults with these conditions, many of whom have multi-system disease. Working at the University Health Network and Centre for Addiction and Mental Health, and with local and international collaborators, our patient populations and extensive data offer the opportunity to discover new genetic causes and insights into the outcomes of patients with specific genetic variants and syndromes. Resources include DNA sequencing data, comprehensive and long-term outcome data, and patient populations with tetralogy of Fallot, other congenital heart diseases, and with schizophrenia. Our clinical and bioinformatics-based research results have the potential to be immediately translated into clinical practice and have public health implications.

If human subjects are involved, have the appropriate Research Ethics Board approvals been obtained?

Yes       No       Application Submitted (Date: \_\_\_\_\_)

Do you expect this work will be published within the 20 months?

Yes       No       Uncertain / Other

***Student Roles & Responsibilities (please be as specific as possible)***

Please indicate who will serve as the student's direct report for daily oversight (PI, PhD student, technician, etc...)

The student will have the opportunity to formulate a feasible research question of interest within the framework of our existing patient populations and data resources. Suggested topics include delineating the multi-system expression in genetic subtypes of tetralogy of Fallot, studying genetic pathways to abnormal cardiac or brain development and related diseases, and identifying prenatal and obstetrical risk factors related to developmental disorders of the heart or brain. Responsibilities will include designing the specific details of the project, coordinating data collection and analysis, presenting results at local and/or international venues, and writing a manuscript suitable for publication in a peer-reviewed medical journal. The student will have the option to participate in an academic clinic where we see relevant patients with diagnosed and yet to be diagnosed genetic conditions, and to hone assessment and related skills. The student will report directly to the PI who provides substantial mentorship and guidance. Expert collaborators and senior students and trainees are also available to the student.