

RESEARCH SCHOLAR PROGRAM 2016
SUPERVISOR/PROJECT INFORMATION FORM



Due on or before **October 21, 2016**. Forms received after this date will not be posted on the website.

SUPERVISOR INFORMATION

Supervisor Name: Benjamin Goldstein

Mailing Address: 2075 Bayview Ave., room FG53, Toronto, ON, M4N-3M5

Telephone Number: 416-480-5328

Email Address: benjamin.goldstein@sunnybrook.ca

Degree (MD, PhD, MD/PhD): MD, PhD

Academic Rank: Associate Professor

Field of Research: bipolar disorder, cardiovascular, biomarkers, adolescents

Graduate School Appointment (IMS, IHPME etc.): Pharmacology

Please note that you must be appointed to the SGS in order to be a supervisor in the Scholar Program

Research Institute Affiliation (if applicable): Sunnybrook Research Institute

Allocation of student contact time (# of hours per week you are available to the student for any concerns or to review progress): 30min/week

Do you have a student that you have already agreed to work with? No

Please note, you may go ahead with a self-initiated project with a student of your choosing. If you choose this option, your project will not be posted online, meaning it will not be open to student applicants.

PROJECT INFORMATION

Project Title: **Imaging-genetics in adolescent bipolar disorder**

Project Description (max 500 words):

The focus of this CREMS project is on adolescent bipolar disorder. Together with the PI, the student will identify a project for which the student will have primary responsibility and first-authorship. The project will be based on the integration of MRI neuroimaging with genetics. Neuroimaging approaches may include structure, functional connectivity, cerebral blood flow, or other phenotypes, the selection of which will depend on the level of the student's familiarity and with MRI analyses. The available sample include approximately 100 adolescents (50% with bipolar disorder, 50% healthy controls). The student will be expected to work independently, with input and guidance from the PI as well as graduate students and post-doctoral fellows. The student will be expected to review the literature, generate hypotheses, and undertake analyses to test those hypotheses. The student will be encouraged to submit his/her findings for presentation at a national or international scientific meeting in Canada or the United States. The supervisor and members of his team will provide guidance and iterative feedback regarding scientific writing in order to support the student in achieving the goal of at least one peer-reviewed publication during the CREMS period. The selected student will be integrated into the overall activities of the laboratory, which includes post-doctoral fellows, pharmacology graduate students, undergraduate research students, and research staff. The student will gain exposure to current methods being applied in the laboratory, including neuroimaging (MRI), vascular imaging (ultrasound, peripheral arterial tonometry), computerized cognitive testing, serum biomarkers, genetics, and novel complementary therapeutics. Descriptions of current ongoing studies can be found at the following website: <http://sunnybrook.ca/content/?page=bsp-youth-bipolar-disorder-research>

If human subjects are involved, has Ethics been obtained?

☒ YES

☐ NO

☐ Application Submitted

☐ N/A

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

☒ YES

☐ NO

☐ Uncertain

Student's Roles / Responsibilities (Please be as specific as possible) Please indicate who will serve as the student's direct report. (PI, PDF, PhD student, technician etc...):

The student will be expected to work with and report to the PI. Together with the PI, the student will identify a project for which the student will have primary responsibility and first-authorship. The student will be expected to work independently, with input and guidance from the PI as well as graduate students and post-doctoral fellows. The student will be expected to review the literature, generate hypotheses, and undertake analyses to test those hypotheses. The student will be encouraged to submit his/her findings for presentation at a national or international scientific meeting in Canada or the United States. The supervisor and members of his team will provide guidance and iterative feedback regarding scientific writing in order to support the student in achieving the goal of at least one peer-reviewed publication during the CREMS period.