



## RESEARCH SCHOLAR PROGRAM – 2018

### SUPERVISOR & PROJECT INFORMATION FORM

Please complete and return, via email only ([crems.programs@utoronto.ca](mailto:crems.programs@utoronto.ca)) by **November 3<sup>rd</sup> 2017** (forms received after this date will not be posted).

#### **Supervisor Information**

Name: Padmaja Subbarao

Email: [padmaja.subbarao@sickkids.ca](mailto:padmaja.subbarao@sickkids.ca)

Degree: MD, MSc Epid, MSc in Clinical Health Services, Health Research Methodology

SGS Appointment (IMS, IHPME, LMP etc.): Associate Professor, Physiology

Academic Rank: Associate Professor, Pediatrics

Field of Research: Asthma, Infant Pulmonary Function, Epidemiology, Intervention Studies, Respiratory Medicine

Research Institution Affiliation (if applicable): Research Institute, Hospital for Sick Children

Allocation of student contact time (number of hours per week YOU are available to the student for any concerns or to review progress): 2hr

**Project Information**

Title: CHILD Study

Description (max 500 words):

The Canadian Healthy Infant Longitudinal Development (CHILD) study is a multi-centre (Vancouver, Edmonton, Winnipeg and Toronto) longitudinal, prospective, general population birth cohort study following over 3500 infants and their families from pregnancy to 5 years of age. The primary hypothesis of the CHILD study is that genetic, environmental, and host factors (in utero and post partum) interact in the developing fetus and infant to alter the risk of subsequent asthma and allergy. This hypothesis recognizes the complex nature of asthma and allergy development; no single factor leads to allergy or asthma in all individuals. Understanding what factors identify a susceptible individual, what factors constitute a risky exposure, and how these factors relate to the developing infant is the goal of the CHILD study.

The CHILD Study has repeated lung function measurements from infancy to 5 years of age, and a large questionnaire and biological sample database. The successful student will work with the supervisors to develop and test a relevant hypothesis related to longitudinal lung function analysis and the role of genes and the environment on lung growth and development.

If human subjects are involved, have Ethics been obtained?

YES       NO       Application Submitted       N/A

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

YES       NO       Uncertain

Student's roles and responsibilities (please be specific):

The student will be supervised by the Clinical Research Project Manager on a day to day basis and will meet with the Dr.

Subbarao weekly to review the progress of the project.

- Research:
  - Enter, request and clean study data
  - Analyze pulmonary function tests (PFT)
  - Interpretation of data in line with current literature
  - Perform high-quality statistical analysis under the supervision of the biostatistician
- Knowledge Translation
  - Support the translation of research findings to practice and policy
  - Communicate the results of PFT analysis to research staff and students
- Administration
  - Present project material on a regular basis at the weekly team meeting.
  - Manage research queries