

# Fellowship in Clinical Metabolic Research

**Duration :** 1 year

**Number of positions:** 2

**Fellowship supervisor:** Dr Franco Carli, MD, MPhil, FRCA, FRCPC  
Dr Thomas Schricker, MD, PhD

**Hospital :** McGill University Health Centre

**Research:** The fellowship includes 60% clinical research activities and 40% laboratory practice. The candidate will participate in the preparation and conduction of clinical projects.

**Funding:** Self funding is recommended.

## **Mission statement:**

To offer anesthesiologists the possibility to learn about mechanisms of modulating the metabolic stress response using pharmacological, nutritional and physiological interventions. The research is directed to study different models of human surgical stress and recovery process. Also metabolic disturbances such as obesity, diabetes, malnutrition and sepsis. Under supervision, the candidate will participate in the development and implementation of novel perioperative strategies and treatments aimed at accelerating the recovery process and minimizing the surgical stress.

## **Description:**

During the fellowship the candidate will be actively involved in :

1. aspects of clinical care. Under the supervision of staff anesthesiologists he/she will be involved in anesthesia care of surgical patients during anesthesia in the operating room and following patients during the postoperative period. The candidate will become familiar with innovative anesthesia techniques (TCI, combined regional/general, regional anesthesia) and application of pharmacological interventions.
2. aspects of research. The candidate will become familiar with several research methods such as stable isotope methodology, indirect calorimetry, insulin clamp, cycle ergometry and biochemical assays.
3. on call system (two calls per month).
4. academic activities (grand rounds, journal clubs, teaching rounds, anesthesia update, research day). Interaction with the residency program is encouraged.

Access to the McGill facilities (libraries, sport complex, cultural events) is available.

5. interdisciplinary meetings on metabolic research in conjunction with other academic departments (nutrition, food science, mass spectrometry). The candidate will have an opportunity to participate in the discussion of studies performed by the multidisciplinary group.
6. current research activities. This will give the opportunity to the candidate to undertake a research project on various aspects of pharmacological or biochemical nature. The candidate is encouraged to present the academic work at scientific meetings, and financial support will be provided by the department..