

# World Congress of Gastroenterology Canadian Digestive Health Education Exchange Program

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In the space below provide a brief summary of the proposed clinical and/or research educational program, including specific objectives:

The Queen's University Division of Gastroenterology is unique for its seamless integration of clinical practice with clinical and basic science research in digestive diseases. As such, it provides excellent educational opportunities in the clinical and/or research spheres within the same unit.\* Given the breadth of expertise available within our clinical and research training programs, we are able to provide a learning experience that is either tailored to a very focused area of interest of the student, or broad based, covering diverse aspects of the specialty.

### **I Clinical Training Program:**

The Division of Gastroenterology provides secondary, tertiary and selected quaternary level care in Gastroenterology to southeastern Ontario. In addition to general Gastroenterology practice, we have specific expertise in the management of complex motor and functional disorders, inflammatory bowel disease and hepatitis. We also perform advanced therapeutic endoscopy and endoscopic ultrasound. By participating in our clinical education exchange program, the student will attain one or more of the following objectives;

- i) Gained insight into advanced techniques in therapeutic endoscopy, including endoscopic mucosal resection, endoscopic pancreatic cyst drainage, endoscopic ultrasound, luminal stent placement and advanced ERCP.
  - ii) Acquired an approach to the performance and interpretation of esophageal and anorectal manometry and gained insight into the indications and limitations of these procedures.
  - iii) Developed skills in management of patients with selected complex gastrointestinal disorders.
- These objectives will be realized by direct one on one mentorship with an experienced clinical faculty member in the endoscopy unit, motility lab and/or outpatient clinic, and active participation in the academic half day and other formal teaching rounds of the Division.

### **II Research Training Program:**

Members of the Division of Gastroenterology and GI Diseases Research Unit engage in a wide variety of basic and clinical research related to digestive sciences and disease. Therefore there is abundant opportunity for an education exchange student to gain exposure to a number of different research projects and methodology. Given the brevity of the exchange program, it will be difficult to complete a full project during the tenure of the award, but this should not preclude the individual from gaining a valuable learning experience that will help him or her further develop their potential in biomedical research. By the end of the training period the exchange student will;

- i) Have acquired skills in the performance and interpretation of one or more selected research techniques. Options include patch clamp or intracellular electrical recording, calcium imaging, cell culture, immunohistochemistry, and a variety of advanced molecular biological techniques;
- ii) Have gained insight into how successful basic and clinical scientists approach clinically relevant research questions in a collaborative fashion.

These objectives will be realized through direct hands on experience under the supervision of an experienced researcher, and by participation in the formal teaching rounds of the research group.

\* Further information is available on our websites: <http://meds.queensu.ca/gidru/index.html> and <http://meds.queensu.ca/gastroenterology/>

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## Canadian Digestive Health Education Exchange Program

List all mentors who will be involved in the program along with their departmental affiliation, University rank and area(s) of expertise:

### Clinicians:

Dr. William Depew, Professor of Medicine, Director of Endoscopy - Inflammatory Bowel Disease, Hepatology

Dr. Lawrence Hookey, Assistant Professor of Medicine, Residency Training Program Director – Therapeutic Endoscopy, Endoscopic Ultrasound

Dr. Jacob Louw, Professor of Medicine, Director of Clinical Trials – Dyspepsia, H. Pylori, Barrett's esophagus

Dr. Catherine Lowe, Assistant Professor of Medicine - Hepatology

### Clinician-Scientists:

Dr. Michael Beyak, Assistant Professor of Medicine and Physiology – Inflammatory Bowel Disease, GI Sensory physiology

Dr. Chris Justinich, Associate Professor of Paediatrics and Physiology – Esophagitis, Food Allergies

Dr. William Paterson, Professor of Medicine, Biology and Physiology, Division Chair – Esophageal Diseases, GI Motor Disorders, Esophageal Physiology and Pathophysiology.

Dr. Elaine Petrof, Assistant Professor of Medicine – Gut microflora, probiotics

Dr. Mark Ropeleski, Associate Professor of Medicine and Anatomy and Cell Biology - Inflammatory Bowel Disease, Molecular Biology of Mucosal Inflammation

Dr. Stephen Vanner, Professor of Medicine, Biology and Physiology – Functional GI Disorders, Defecation Disorders, Enteric nervous system physiology and pathophysiology.

### Basic Scientists:

Dr. Michael Blennerhassett, Associate Professor of Biology and Physiology – Nerve smooth muscle interactions in gut inflammation

Dr. Alan Lomax, Assistant Professor of Physiology – Enteric nervous system control of GI microcirculation in health and disease

Dr. John MacLeod, Assistant Professor of Physiology and Tier II Canada Research Chair - Epithelial molecular physiology, Calcium sensing receptors, colon cancer chemoprevention.