

## Program for "Microbes and Mucosal Immunity 2008"

Organizing Committee:

Peter B. Ernst, DVM, PhD; Sheila E. Crowe, MD; Brian K. Reuter, PhD

**Wednesday June 25, 2008, 4:00 pm Jordan Hall Auditorium, University of Virginia.**

Opening Remarks: Peter Ernst, DVM, PhD, University of Virginia, Charlottesville, VA

Keynote speaker: Gail Hecht, MD, University of Illinois, Chicago, IL.

**Reception to follow**

**Thursday June 26, 2008, Ednam Hall, Boar's Head Inn.**

**Session I: The Gastrointestinal Tract: Anatomy, Physiology & Pathology**

Session Chair: Peter Ernst, DVM, PhD, Dept. of Medicine, University of Virginia

Speakers:

9:00 am Wallace MacNaughton, PhD, Dept. Physiology & Biophysics, University of Calgary  
Physiology of the Gastrointestinal Tract I

9:45 am Marshall Montrose, PhD, Dept Molecular & Cellular Physiology, University of Cincinnati  
Physiology of the Gastrointestinal Tract II

**Coffee**

10:45 am Jerrold Turner, MD, Dept. of Pathology, University of Chicago  
Pathologies of the Human GI Tract

11:15 Atul Bhan, MD, Dept. of Pathology, Harvard Medical School, Boston, MA  
Comparative Pathology/Animal Models of GI Disease

**Lunch Break (12:00 – 1:00 pm)**

**Session II: Infectious Agents: The Era of Biodefense**

Session Chair: Brian Reuter, PhD, Dept of Medicine, University of Virginia

Speakers:

1:00 pm Ben Gold, MD, Dept. of Pediatrics, Emory University  
Epidemiology of Gastrointestinal Disease - From James Snow to Hepatitis C.

1:30 pm Corrie Brown, DVM, PhD, Dept. of Pathology, University of Georgia  
Emergence of Infections from Animal Hosts

2:00 pm Dick Guerrant, MD, Dept. of Medicine, University of Virginia  
Infectious Diarrhea: Impact and Novel Approaches to Control

**Coffee**

3:00 pm Sheila Crowe, MD, Dept. of Medicine, University of Virginia  
Gastrointestinal Epithelium & Microbial Interactions

3:30 pm Christian Jobin, PhD, Dept of Medicine, University of North Carolina  
Epithelium and Innate Immune Responses in the Gut

4:00 pm Chris Moskaluk, MD, University of Virginia  
Microdissection and microarray approaches to gene expression profiling

4:30 pm **Discussion Period for Sessions I and II**

**Friday June 27, 2008, Ednam Hall, Boar's Head Inn.**

**Session III: GI Responses to Infection: Innate and Adaptive Immune Responses**

Session Chair: Sheila Crowe, MD, Dept of Medicine, University of Virginia

Speakers:

9:00 am Brian Reuter, PhD, Dept of Medicine, University of Virginia  
Experimental Models in GI Research: Crohn's Disease

9:30 am Peter B. Ernst, DVM, PhD, Dept of Medicine, University of Virginia  
Experimental Models in GI Research: Colitis

10:00 am Maria Abreu, MD, Dept. of Medicine, University of Miami Medical School  
Innate Immunity in Inflammatory Bowel Diseases

**Coffee**

10:45 Tim Denning, PhD, Vaccine Research Center, Emory University  
Immune Regulation by Intestinal Antigen Presenting Cells

11:15 Ken Croitoru, MD, Dept. of Medicine, McMaster University  
Adaptive Mucosal Immunity in the GI Tract

11:45 Balfour Sartor, MD, Dept. of Medicine, University of North Carolina  
The Role of Commensal Enteric Flora in the Pathogenesis of Chronic  
Gastrointestinal Inflammation

**Lunch Break (12:15 – 1:00 pm)**

**Session IV: Outside the Scope: Biomedical Engineering, Bioinformatics and Gene Expression**

Session Chair: Peter Ernst, DVM, PhD, Dept of Medicine, University of Virginia

Speakers:

1:00 pm Shayn Peirce, PhD, Dept. of Biomedical Engineering, University of Virginia  
A Bioengineering Approach to Studying Tissue Growth and Adaptation:  
Combining Experiments with Agent-Based Computational Models

1:30 pm Jesus Nieves-Rivera, MD, Dept. of Medicine, University of Colorado  
Blockade of Lymphocyte Trafficking as a Therapeutic Strategy for GI  
Inflammation

2:00 pm Jayson Rieger, PhD, Adenosine Therapeutics, Charlottesville, VA  
Medicinal Chemistry as a Tool for Drug Discovery – Development of A2AR  
Agonists

**Coffee**

2:45 pm Peter B. Ernst, DVM, PhD, Dept. of Medicine, University of Virginia  
Combating GI Inflammation through Adenosine Receptors

3:15 pm Patrick Concannon, PhD, Dept. of Biochemistry and Molecular Genetics,  
University of Virginia  
Mapping Genes in Genetically Complex Disorders: Diabetes and Malnutrition

3:45 pm Roderick Jensen, PhD, Dept. of Biology, Bioinformatics Institute, Virginia Tech  
Exploring Functional Genomics using DNA Microarrays, Next-Generation  
Sequencing, and Bioinformatics

4:15 pm **Discussion Period for Sessions III and IV**

4:30 pm Closing Remarks: Peter Ernst