

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.

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

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
The Pathogenesis of Food borne Illness

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

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 Responses in the Pathogenesis of Inflammatory Bowel Diseases

Coffee

10:45 Tim Denning, PhD, Vaccine Research Center, Emory University
Antigen Presentation in the Intestine

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 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
Modeling the Microcirculation and Immune Cell Extravasation

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 and Designer Drugs: Targeting Adenosine Receptors

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
The Application of High-Throughput Gene Expression for Understanding Host
Responses to Infection

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

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

4:30 pm Closing Remarks: Peter Ernst