Gastrointestinal
Response to Injury

Program

Tuesday, Sept. 28
Conference Chairs: Richard M. Peek, Jr, MD, AGAF & Jonathan D. Kaunitz, MD

6:30 – 7:30 p.m. Keynote Address: Host-bacteria Homeostasis in the Healthy and Inflamed Gut
Philippe J. Sansonetti, MD

7:30 – 9 p.m. Welcome Reception

Wednesday, Sept. 29
7:30 – 8:45 a.m. Breakfast

Part I: Host Responses that Mediate Gastrointestinal Repair
9 a.m. – Noon Session One: Innate Epithelial Defense Mechanisms
Chairs: Asma Nusrat, MD & Marshall H. Montrose, PhD

• Role of the Intestinal Barrier and Polarization in Inflammation and Injury
Asma Nusrat, MD

• Signals that Activate Nod-like Receptors in Health and Disease
Dana Philpott, PhD

• Guardians of the Gut: Newly Appreciated Roles for Epithelial Toll-like Receptors
Andrew T. Gewirtz, PhD

• Ecto-purinergic Regulation of Protective Duodenal Alkaline Surface pH
Jonathan D. Kaunitz, MD

• Epithelial Gaps in the Stomach and Small Intestine
Marshall H. Montrose, PhD

Noon – 1:30 p.m. Lunch

1:30 – 3:30 p.m. At leisure

3:30 – 5 p.m. Poster Session

5 – 5:30 p.m. Young Investigator/Trainee Oral Presentations of Selected Posters

5:30 – 6 p.m. Special Lecture: Cryptic Progenitors of Metaplasia in the Stomach: From Out of the Mist Comes the Chief Cells
James R. Goldenring, MD, PhD, AGAF

6 – 7:30 p.m. Session Two: Regulators and Effectors of Gut Inflammation
Chairs: R. Balfour Sartor, MD & Kenneth Croitoru, MD, AGAF

• Epithelial Hedgehog Modulates Inflammatory Signaling
Deborah L. Gumucio, PhD

• Adenosine Receptors that Mediate Gut Inflammation
Peter B. Ernst, DVM, PhD

• T-cell Induced Mucosal Damage in the Intestine
Kenneth Croitoru, MD, AGAF

• Novel Translational Models For Understanding IBD
R. Balfour Sartor, MD
### Thursday, Sept. 30

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<th>Time</th>
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<tr>
<td>7:30 – 8:45 a.m.</td>
<td>Breakfast</td>
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<td>9 a.m. – Noon</td>
<td><strong>Part II: Agents and Mechanisms of Gastrointestinal Injury</strong></td>
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<td><strong>Session Three: O₂, Nitric Oxide, and NSAIDs in Upper GI Mucosal Injury</strong></td>
<td>Chairs: Keith T. Wilson, MD, AGAF &amp; Sheila E. Crowe, MD, AGAF</td>
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<td></td>
<td>• Polyamine-mediated Oxidative Stress</td>
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<td>Keith T. Wilson, MD, AGAF</td>
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<td>• Hypoxia and Gastrointestinal Disease</td>
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<td>Sean P. Colgan, PhD</td>
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<td>• Hypoxic Regulation of NF-κB Signaling in the Gut</td>
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<td>Cormac T. Taylor, PhD</td>
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<td>• Role of Oxidative and Nitrosative Stress in Gastric Pre-neoplasia</td>
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<td>Sheila E. Crowe, MD, AGAF</td>
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<td>• Strategies to Minimize Injury from Anti-inflammatory Compounds</td>
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<td>5:30 – 6 p.m.</td>
<td><strong>Special Lecture: Stem Cells as Mediators of Repair and Injury</strong></td>
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<td>Sir Nicholas A. Wright, MD, PhD</td>
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<td>6 – 7:30 p.m.</td>
<td>Dinner</td>
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<td>7:30 – 9:30 p.m.</td>
<td><strong>Session Four: Microbial and Host Mediators of Repair and Disease</strong></td>
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<td>Chairs: Andrew S. Neish, MD &amp; Gail A. Hecht, MD, MS, AGAF</td>
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<td>• Stealth Entry into Gastrointestinal Epithelial Cells by Microbial Pathogens</td>
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<td>Manuel Amieva, MD</td>
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<td>• Innate Immune Responses to Commensal Bacteria in the Gut Epithelium</td>
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<td>Andrew S. Neish, MD</td>
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<td>• Epithelial Responses to Pathogenic <em>E. coli</em></td>
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<td>Gail A. Hecht, MD, MS, AGAF</td>
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<td>• <em>Salmonella</em> Infections and Chronic Intestinal Inflammation</td>
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<td>Beth A. McCormick, PhD</td>
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### Friday, Oct. 1

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<td><strong>Part III: Consequences of Gastrointestinal Injury</strong></td>
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<td>1 – 4 p.m.</td>
<td><strong>Session Five: Healing, Repair and Carcinogenesis</strong></td>
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<td>Chairs: Gary D. Wu, MD &amp; Juanita L. Merchant, MD, PhD</td>
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<td></td>
<td>• Dysregulation of Apical-Junctional Complexes and Inflammation</td>
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<td>Jerrold R. Turner, MD, PhD, AGAF</td>
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<td>• Relmß and Inflammatory Bowel Disease</td>
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<td>Gary D. Wu, MD</td>
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<td></td>
<td>• Pre-malignant Consequences of EGFR-mediated Tissue Repair</td>
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<td>D. Brent Polk, MD, AGAF</td>
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<td>• Regulatory Peptides and Cytokines In Gastrointestinal Homeostasis and Disease</td>
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<td>Juanita L. Merchant, MD, PhD</td>
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<td>• Novel Effectors of Inflammation-Mediated Cancer</td>
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<td>JeanMarie N. Houghton, MD, PhD</td>
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<td>4 – 4:30 p.m.</td>
<td>Break</td>
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<td>4:30 – 6:30 p.m.</td>
<td><strong>Session Six: Clinical Manifestations of Gastrointestinal Inflammation</strong></td>
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<td>Chairs: Beth B. McConnell, PhD &amp; R. Balfour Sartor, MD</td>
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<td>• Tissue Regeneration, Inflammation and Colon Cancer</td>
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<td>• Barrett’s-mediated Esophageal Adenocarcinoma</td>
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<td>Rhonda F. Souza, MD, AGAF</td>
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<td>• Gluten Enteropathies</td>
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<td>Ciaran P. Kelly, MD</td>
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<td>6:30 – 10 p.m.</td>
<td>Dinner</td>
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**PROGRAM CONTINUED**
Conference Directors

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Department of Pathology
University of Chicago

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Warden, Barts and The London School of Medicine and Dentistry
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