

Center for the Study of Inflammatory Bowel Disease  
22<sup>nd</sup> Annual Workshop

**Inflammatory Bowel Disease Interactome  
November 9 – 10, 2012**

---

**November 9, 2012**

7:30 - 7:55 Registration and Continental Breakfast  
Opening Remarks  
Ramnik J. Xavier, M.D., Director, CSIBD

**Session I:** **TLRs, SYSTEMS BIOLOGY AND HUMAN DISEASE**

Moderator: Kate Jeffrey, Ph.D.

8:00 – 8:20 ***TLR Signaling to Gene Networks in Human Disease***  
Nir Hacohen, Ph.D., Massachusetts General Hospital, Charlestown, MA

8:25 – 8:45 ***Inflammation, Infection, and Immunity***  
Eric G. Pamer, M.D., Memorial Sloan-Kettering Cancer Center, New York, NY

**Session II:** **METABOLIC CIRCUITS AND IMMUNITY**

Moderators: Stephen James, M.D. and Curtis Huttenhower, Ph.D.

8:50 – 9:10 ***Mitochondrial ROS and Auto-Inflammation***  
Richard Siegel, M.D., Ph.D., NIAMS, Bethesda, MD

9:15 – 9:35 ***Metabolic Consequences of Immunity***  
Ajay Chawla, M.D., Ph.D., University of California, San Francisco, CA

9:40 – 9:55 **BREAK**

10:00 – 10:30 ***Integrative Genomics and Mito Disorders***  
Vamsi K. Mootha, M.D., Massachusetts General Hospital, Boston, MA

10:35 – 10:50 **Q & A**

**Session III:** **INTRACELLULAR COMMUNICATION AND MICROBIAL DEFENSE**

Moderator: Bana Jabri, M.D., Ph.D.

10:55 – 11:15 ***Interactions Between Microbes, Autophagy, and Gut Immunity***  
Lora Hooper, Ph.D., University of Texas Southwestern Medical Center, Dallas, TX

11:20 – 11:40 ***Inflammation, Metabolic Control, and Mucosal Immunity***  
Thirumala-Devi Kanneganti, Ph.D., St. Jude Children's Research Hospital, Memphis, TN

11:45 – 12:45 **LUNCH**

**Session IV:**                    **RNA, CHEMISTRY AND THERAPEUTICS**

Moderators: Charles Elson, M.D. and Dirk Gevers, Ph.D.

12:50 – 1:10

***RNAs and Lymphocyte Biology***

F. Nina Papavasiliou, Ph.D., The Rockefeller University, New York, NY

1:15 – 1:55

***Human Genetics: A Roadmap to New Therapeutics***

Stuart L. Schreiber, Ph.D., Broad Institute of MIT and Harvard, Cambridge, MA

2:00 – 2:20

***RNA Methylation: A Roadmap to Epigenetics***

Chuan He, Ph.D., The University of Chicago, Chicago, IL

2:25 – 2:40

**BREAK**

**Session V:**                    **MICROBES AND AUTOIMMUNITY**

Moderators: Fabio Cominelli, M.D., Ph.D. and Lynda Stuart, M.D., Ph.D.

2:45 – 3:05

***Control of Central vs. Peripheral Tolerance***

Mark Anderson, M.D., Ph.D., University of California, San Francisco, CA

3:10 – 3:30

***Microbiome and Systemic Autoimmunity***

Dan Littman, M.D., Ph.D., New York University School of Medicine, New York, NY

3:35 – 3:55

***Microbes Define Mucosal Defense***

Daniel Mucida, Ph.D., The Rockefeller University, New York, NY

4:00 – 4:15

**Q & A**

**Session VI:**                    **MICROBES AND INTESTINAL IMMUNITY**

Moderators: Balfour Sartor, M.D. and Gail Hecht, M.D.

4:20 – 4:40

***Viruses Determine Mucosal Immune Tolerance***

Herbert W. Virgin, M.D., Ph.D., Washington University School of Medicine, St. Louis, MO

4:45 – 5:05

***Helminths, Immunity, and New Therapies***

Joel Weinstock, M.D., Tufts University School of Medicine, Boston, MA

5:10 – 5:30

***Murine Models of Infection: Candida to Clostridium difficile***

Vincent Young, M.D., Ph.D., University of Michigan, Ann Arbor, MI

5:35 – 5:55

***Post-Human Microbiome Project: Predicting the Next Decade of Research***

Curtis Huttenhower, Ph.D., Harvard School of Public Health, Boston, MA

**Saturday, November 10, 2012**

7:30 - 7:55

Registration and Continental Breakfast

**Session VII:**                    **INNATE DEFENSE AND INTESTINAL INFLAMMATION**

Moderators: J. Rodrigo Mora, M.D., Ph.D. and Hans-Christian Reinecker, M.D.

8:00 – 8:20

***Virulence, Pathogenesis and Immune Control***

Gabriel Nunez, M.D., University of Michigan Medical School, Ann Arbor, MI

8:25 – 8:45

***Defensins - A Key Hub in Intestinal Immunity***

Charles L. Bevins, M.D., Ph.D., University of California, Davis, CA

- 8:50 – 9:10 ***Parasites and Common Flora: Regulatory Roles of Microbes, T cells, and Gut Immunity***  
Yasmine Belkaid, Ph.D., National Institutes of Health, Bethesda, MD
- 9:15 – 9:35 ***Innate Lymphoid Cells and Anatomical Containment of Commensal Bacteria***  
David Artis, Ph.D., University of Pennsylvania, Philadelphia, PA
- 9:40 – 9:55 Q & A
- 10:00 – 10:15 **BREAK**
- Session VIII:** **DIET/MICROBES AND INTERACTION NETWORKS**
- Moderators: Atul K. Bhan, M.D. and Jonathan Braun, M.D., Ph.D.
- 10:20 – 10:40 ***Three-Axis Model of Intestinal Inflammation: Diet, Microbes, and Immunity***  
Eugene B. Chang, M.D., University of Chicago, Chicago, IL
- 10:45 – 11:05 ***Diet, Lipid Receptors, and Inflammatory Bowel Disease***  
Charles Mackay, Ph.D., Monash University, Melbourne, Australia
- Session IX:** **CELL SPECIFIC CIRCUITS AND IMMUNITY**
- Moderators: Cox Terhorst, Ph.D. and Vijay Yajnik, M.D., Ph.D.
- 11:10 – 11:30 ***Role of Macrophages in Trained Immunity***  
Mihai Netea, Ph.D., Radboud University Nijmegen Medical Center, The Netherlands
- 11:35 – 11:55 ***Network Biology and T Cell Co-stimulation***  
Arlene Sharpe, M.D., Ph.D., Harvard Medical School, Boston, MA
- 12:00 – 12:20 ***Molecular Control of Autoimmunity***  
Dario Vignali, Ph.D., St. Jude Children's Research Hospital, Memphis, TN
- 12:25 – 12:45 ***The Phagosome Innate Defense and Human Disease***  
Lynda Stuart, M.D., Ph.D., Massachusetts General Hospital, Boston, MA
- 12:50 - 1:10 ***Human Genetics, Immunity and Pathway Maps***  
Daniel Graham, Ph.D., Broad Institute of MIT and Harvard, Cambridge, MA
- 1:15 – 1:35 ***Analyzing the Landscape of RNA Methylation***  
Cosmas Giallourakis, M.D., Massachusetts General Hospital, Boston, MA
- 1:40 Lunch

***Simches Research Building, at Charles River Plaza***  
185 Cambridge Street, 3<sup>rd</sup> floor, Boston, MA  
The Workshop is open to the research community at no charge.

To register, please e-mail [mleonard1@partners.org](mailto:mleonard1@partners.org)  
**PRE-REGISTRATION REQUIRED**