

*Center for the Study of Inflammatory Bowel Disease*  
*18<sup>th</sup> Annual Workshop*

## **Autophagy in Immunity**

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**Friday, November 14, 2008**

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

**Session I:**            **Molecular Pathways of Autophagy**

Moderators: Christian Reinecker, M.D. and Cosmas Giallourakis, M.D.

8:00 – 8:20            ***Mechanistic Insight into LC3 Lipidation for Membrane Biogenesis in Autophagy***  
                          Tamotsu Yoshimori, Ph.D., Osaka University, Japan

8:25 – 8:45            ***Chaperone Mediated Autophagy***  
                          Anna Maria Cuervo, M.D., Ph.D., Albert Einstein College of Medicine, Bronx, NY

8:50 – 9:10            ***Autophagy in Stress and Development – Molecular Insight From Yeast to Zebra Fish Models***  
                          Beth Levine, M.D., University of Texas Southwestern Medical Center, Dallas, TX

9:15 – 9:35            ***Autophagy in Growth, Survival and Death; Insights from Fly Biology***  
                          Eric Baehrecke, Ph.D., University of Massachusetts Medical School, Worcester, MA

9:40 – 10:10          Discussion

10:15 – 10:30        Break

**Session II:**            **Autophagy and Apoptosis in the Regulation of Inflammation**

Moderators: Abraham Brass, M.D., Ph.D. and Vijay Yajnik, M.D., Ph.D.

10:35 – 10:55        ***Metabolic Reprogramming Bioenergetics in Cell Growth***  
                          Craig B. Thompson, M.D., University of Pennsylvania, Philadelphia, PA

11:00 - 11:20        ***Recent Update on Inflammasome***  
                          Jürg Tschopp, Ph.D., University of Lausanne, Switzerland

11:25 – 11:45        ***Novel Regulatory Mechanisms of Autophagy Pathway***  
                          Jae Jung, Ph.D., University of Southern California, Los Angeles, CA

11:50 – 12:20        Discussion

12:25 – 1:25          Lunch

**Session III:**                    **Autophagy in Innate and Adaptive Immunity I**

Moderators: Stephen James M.D. and Cox Terhorst, Ph.D.

1:30 – 1:50

***Genetics, Genes and Pathways in Crohn's Disease***

Ramnik J. Xavier, M.D., Massachusetts General Hospital, Boston, MA

1:55 – 2:15

***Role of ATG16 in Innate and Adaptive Immunity***

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

2:20 – 2:40

***Interactions of Listeria and Salmonella with the Autophagy System of Host Cells***

John H. Brumell, Ph.D., The Hospital for Sick Children, Toronto, Ontario, Canada

2:45 – 3:10

***IRGM in Autophagy: Where Rubber Meets the Road from Tuberculosis to Crohn's Disease***

Vojo Deretic, Ph.D., University of New Mexico HSC, Albuquerque, NM

3:15 – 3:45

Discussion

3:50 – 4:10

Break

**Session IV:**

**Autophagy in Innate and Adaptive Immunity II**

Moderators: Martin Kagnoff, M.D. and Fabio Cominelli, M.D.

4:15 – 4:35

***Role of Autophagy in Viral Antigen Presentation by MHCII Molecules***

Christian Münz, Ph.D., University Hospital Zurich, Switzerland

4:40 – 5:00

***Autophagosomal Machinery and RNA Viruses***

Akiko Iwasaki, Ph.D., Yale University School of Medicine, New Haven, CT

5:05 – 5:25

***Functional Role of IRGM in Autophagy and Cell Death Pathways***

Carl Feng, M.D., Ph.D., National Institutes of Health, Bethesda, MD

5:30 – 5:50

Discussion

**Saturday, November 15, 2008**

7:30 - 8:00

Registration and Continental Breakfast  
Remarks

**Session V:**

**Autophagy in Mechanisms of Disease**

Moderators: Balfour Sartor, M.D. and Claudio Fiocchi, M.D.

8:05 – 8:25

***The Role of Autophagy in Early Embryogenesis***

Noboru Mizushima, M.D., Ph.D., Tokyo Medical and Dental University, Tokyo, Japan

8:30 – 8:50

***Genome Wide Screen for Regulators of Autophagy***

Junying Yuan, Ph.D., Harvard Medical School, Boston, MA

8:55 – 9:15

***AKT-mTOR and Foxp Cells***

Christophe Benoist, M.D., Ph.D., Joslin Diabetes Center, Boston, MA

9:20 – 9:40 ***Role of VAV Proteins in Host Cell Immunity***  
Wojciech Swat, Ph.D., Washington University School of Medicine, St. Louis, MO

9:45 – 10:05 Discussion

10:10 – 10:25 Break

**Session VI:** **Autophagy a Therapeutic Target**

Moderators: Scott Snapper, M.D., Ph.D. and Charles Elson, M.D.

10:30 – 10:50 ***XBP1, Paneth Cells and IBD***  
Richard Blumberg, M.D., Brigham and Women's Hospital, Boston, MA

10:55 – 11:15 ***Role of Autophagy and the Proteasome Pathways in Muscle Wasting and Cachexia***  
Alfred Lewis Goldberg, Ph.D., Harvard Medical School, Boston, MA

11:20 – 11:40 ***Mitochondrial Autophagy in Hepatocytes***  
John J. LeMasters, M.D., Ph.D., Medical University of South Carolina, Charleston, SC

11:45 – 12:05 ***Autophagy and Chemical Biology***  
James E. Bradner, M.D., Dana Farber Cancer Institute, Boston, MA

12:10 – 12:30 Discussion

12:30 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**