Food Allergy: Signals to Circuits
November 11 – 12, 2016

November 11, 2016

7:45 – 8:00  Registration and Continental Breakfast
Opening Remarks
Ramnik J. Xavier, M.D., Director, CSIBD

**Session I:**
Moderators: Kate Jeffrey, Ph.D., and Balfour Sartor, M.D.

8:00 – 8:20  *Understanding Food Allergy as a Quantitative Phenotype*
Wayne G. Shreffler, M.D., Ph.D., Massachusetts General Hospital, Boston, MA

8:25 – 8:45  *Interactions of IgE and IgG Signals in Immune Sensitization and Responses to Food Allergens*
Hans C. Oettgen, M.D., Ph.D., Boston Children’s Hospital, Boston, MA

**KEYNOTE ADDRESS**
8:50 – 9:35  *Food Quality Control Systems and Associated Diseases*
Ruslan M. Medzhitov, Ph.D., Yale School of Medicine, New Haven, CT

9:40 – 10:00  *Celiac Disease: A Story of a Dietary Antigen and a Tissue*
Bana Jabri, M.D., Ph.D., University of Chicago, IL

10:05 – 10:20  BREAK

**Session II:**
Moderators: Charles Elson, M.D., and Stephen James, M.D.

Adam Haber, Ph.D., Broad Institute of MIT and Harvard, Cambridge, MA

10:50 – 11:10  *Crosstalk between Intestinal Stem Cells and T Cells Determines Epithelial Cell Fate*
Moshe Biton, Ph.D., Broad Institute of MIT and Harvard, Cambridge, MA

11:15 – 11:35  *Early Production of IL-4 by Macrophage-Primed NKTs Supports B Cell Immunity*
Facundo D. Batista, Ph.D., Ragon Institute of MGH, MIT and Harvard, Cambridge, MA

11:40 – 12:10  *Mast Cells in Food Allergy*
Paul J. Bryce, Ph.D., Northwestern University Feinberg School of Medicine, Chicago IL

12:15 – 1:00  LUNCH
### Session III:

**Moderators:** Alan Mullen, M.D., Ph.D., and Andrew Luster, M.D., Ph.D.

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<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
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<tr>
<td>1:05 – 1:25</td>
<td><em>The Skin-Gut Crosstalk in Food Allergy</em></td>
<td>Raif Geha, M.D.</td>
<td>Boston Children's Hospital, Boston, MA</td>
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<td>1:30 – 1:50</td>
<td><em>New Mouse Models to Look at the Gut</em></td>
<td>Hidde Ploegh, Ph.D.</td>
<td>Massachusetts Institute of Technology, Cambridge, MA</td>
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<td>1:55 – 2:15</td>
<td><em>Effects of Probiotics on Food Allergy and Aversion Behavior</em></td>
<td>Ana Maria Caetano de Faria, M.D., Ph.D.</td>
<td>Universidade Federal de Minas Gerais, Brasil</td>
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<td>2:20 – 2:40</td>
<td><em>The Immunological Determinants of Lifelong Food Allergy</em></td>
<td>Manel Jordana M.D., Ph.D.</td>
<td>McMaster University, Canada</td>
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<td>2:45 – 3:05</td>
<td>BREAK</td>
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### Session IV:

**Moderators:** James Moon, Ph.D., and Hans-Christian Reinecker, M.D.

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<td>3:10 – 3:30</td>
<td><em>Initiation of Type 2 Immune Responses</em></td>
<td>Jakob von Moltke, Ph.D.</td>
<td>University of Washington, Seattle, WA</td>
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<td>3:35 – 3:55</td>
<td><em>Metabolites and Metabolite-Sensing GPCRs in Food Allergy</em></td>
<td>Charles Mackay, Ph.D.</td>
<td>Monash University, Australia</td>
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<td>4:00 – 4:20</td>
<td><em>Food Allergy Depends on the Unfolded Protein Response</em></td>
<td>Fred Finkelman, M.D.</td>
<td>University of Cincinnati College of Medicine, Cincinnati, OH</td>
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<td>4:25 – 4:45</td>
<td><em>Chemosensory Signaling in the Alimentary Tract: Taste Receptors and Beyond</em></td>
<td>Paul Breslin, Ph.D.</td>
<td>Rutgers School of Environmental and Biological Sciences, New Brunswick, NJ</td>
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<td>4:50 – 5:10</td>
<td><em>Glycan Regulation of IgE</em></td>
<td>Robert M. Anthony, Ph.D.</td>
<td>Massachusetts General Hospital, Boston, MA</td>
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November 12, 2016

7:30 – 7:55  Registration and Continental Breakfast

**Session V:**

Moderators: Shiv Pillai, M.D., Ph.D., and Atul Bhan, M.D.

8:00 – 8:20  *Population-scale Microbiome Function*
Curtis Huttenhower, Ph.D., Harvard University, Boston, MA

8:25 – 8:45  *Exposure to Microbiota in Early Life Shapes Immune Development*
Kathy McCoy, Ph.D., Universität Bern, Switzerland

8:50 – 9:10  *Neuro-Immune Interactions in the Intestine*
Daniel Mucida, Ph.D., The Rockefeller University, New York, NY

Emeran A. Mayer, M.D., Ph.D., University of California, Los Angeles, CA

9:45 – 10:05  BREAK

**Session VI:**

Moderators: Fabio Cominelli, M.D., Ph.D., and Benjamin Medoff, M.D.

10:10 – 10:30  *Immune Regulation at Barrier Surfaces*
David Artis, Ph.D., Cornell University, New York, NY

10:35 – 10:55  *Regulatory T cells and Th2 Immunity at Mucosal Barriers*
Andrew Luster, M.D., Ph.D., Massachusetts General Hospital, Boston, MA

11:00 – 11:25  *Regulation of Th2 Responses by Regulatory Cells*
Vijay K. Kuchroo, Ph.D., Brigham and Women’s Hospital, Boston, MA

11:30 - 11:50  *Novel Gatekeepers Control the Initiation of the Allergic Immune Response*
Caroline Sokol, M.D., Ph.D., Massachusetts General Hospital, Boston, MA

12:00 – 12:30  Discussion

12:30 – 1:30  LUNCH

*Simches Research Building at Charles River Plaza*
*185 Cambridge Street, 3rd floor*
*The Workshop is open to the research community at no charge*
*To register, please e-mail dvalley@partners.org*