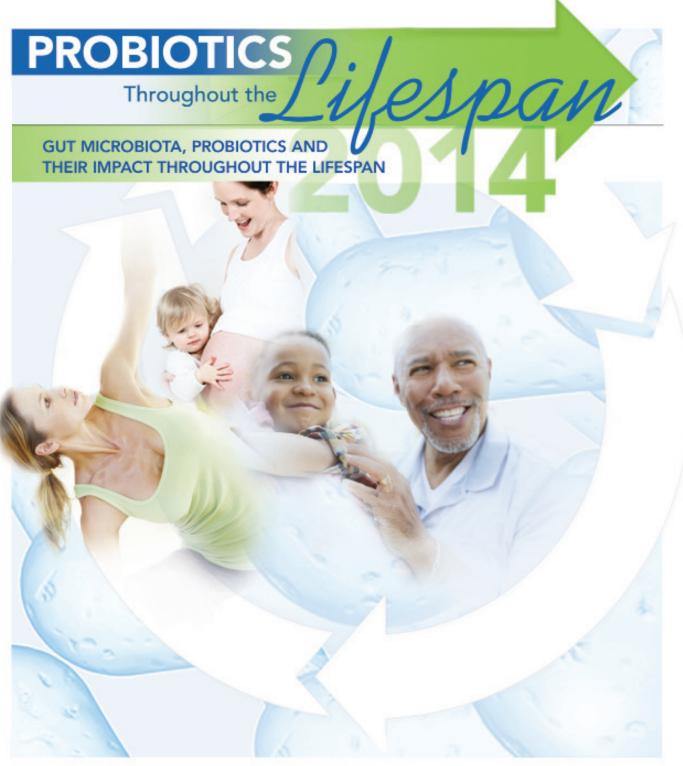


# Symposium Program

September 22-23, 2014 | Joseph B. Martin Conference Center Harvard Medical School | Boston, Massachusetts, USA











# Monday, September 22, 2014

7:00 a.m. Registration & Breakfast

8:00 a.m. Welcome and Program Overview – W. Allan Walker, MD, Director, Division of Nutrition, Harvard Medical School

8:10 a.m. Opening Keynote - "Manipulating the Microbiota: Beyond Traditional Probiotics and Fecal Transplant"

R. Balfour Sartor, MD

Distinguished Professor of Medicine, Microbiology and Immunology, Director, UNC Multidisciplinary Center for IBD Research and

Treatment, University of North Carolina

### **SESSION IA: Pregnancy**

Moderator: Mary Ellen Sanders, PhD, Dairy & Food Culture Technologies

8:25 a.m. Keynote: "The Microbiota During Pregnancy"

Omry Koren, PhD

Assistant Professor, Faculty of Medicine, Bar Ilan University, Israel

8:55 a.m. Probiotic Use During Pregnancy for Protection Against Childhood Diseases

Erika Isolauri, MD, D. Med. Sc

Professor of Pediatrics, University of Turku, Finland

Chief Physician, Department of Paediatrics, Turku University Hospital, Finland

9:25 a.m. Diet and Microbiotic Exposure During Pregnancy and Immune Protection Against Allergic Manifestations

Erika von Mutius, MD, MSc

Professor of Pediatrics, Head of Asthmas and Allergy Department, Dr. von Hauner Children's Hospital, Germany

9:55 a.m. Discussion
10:20 a.m. Break

#### SESSION IB: Neonatal Period

Moderator: W. Allan Walker, MD, Harvard Medical School

10:45 a.m. Keynote: "Development of Human Infant Intestinal Microbiota"

David A. Relman, MD

Thomas C. and Joan M. Merigan Professor, Departments of Medicine and of Microbiology and Immunology, Stanford University

11:15 a.m. Antibiotics and Neonatal Colonization

Martin J. Blaser, MD

Muriel and George Singer Professor of Medicine, Professor of Microbiology, Director, Human Microbiome Program, New York University

Langone Medical Center

11:45 a.m. Establishment of a Milk-Oriented Microbiota in Infants: New Insight into Probiotics and Prebiotics

David A. Mills, PhD

Peter J. Shields Endowed Chair in Dairy Food Science, Department of Viticulture and Enology, Department of Food Science and

Technology, University of California, Davis

12:15 p.m. Lunch

1:15 p.m. Probiotic Studies in NEC

W. Allan Walker, MD

Conrad Taff Professor of Nutrition, Professor of Pediatrics; Director, Division of Nutrition, Harvard Medical School

Mucosal Immunology and Biology Research Center, Massachusetts General Hospital

### Monday, September 22, 2014 continued

1:45 p.m. The Perinatal Microbiome: Implications for Health and Disease

Josef Neu, MD

Professor of Pediatrics, Division of Neonatology, University of Florida

2:15 p.m. Discussion

2:40 p.m. Break

### SESSION II: Adult Period

Moderators: Peter R. Holt, MD, The Rockefeller University; Richard L. Guerrant, MD, University of Virginia School of Medicine

3:05 p.m. Keynote: "Diet and the Gut Microbiota"

Gary D. Wu, MD

Ferdinand G. Weisbrod Professor of Gastroenterology, Associate Chief of Research, Division of Gastroenterology, Associate Director,

Center for Molecular Studies in Digestive and Liver Disease, Perelman School of Medicine, University of Pennsylvania

3:35 p.m. Microbial Determination of Mucosal Homeostasis vs Chronic Intestinal Inflammation

R. Balfour Sartor, MD

Distinguished Professor of Medicine, Microbiology and Immunology, Director, UNC Multidisciplinary Center for IBD Research and

Treatment, University of North Carolina

4:05 p.m. Microbial Interventions for Obesity and Metabolic Syndrome

Max Nieuwdorp, MD, PhD

Associate Professor, Internal Medicine, Head of Experimental Vascular Medicine Department, Academic Medical Center, University of

Amsterdam, Netherlands

Visiting Professor, Gothenborg University, Sweden

4:35 p.m. Microbiota and Brain Gut Axis

Emeran A. Mayer, MD

Professor, Department of Medicine, Physiology and Psychiatry, Co-Director, CURE: Digestive Disease Research Center, David Geffen

School of Medicine, University of California, Los Angeles

Executive Director, Oppenheimer Family Center for Neurobiology of Stress

5:05 p.m. Microbiome-gut-brain Interactions in an Autism Mouse Model

Elaine Y. Hsiao, PhD

Research Assistant Professor, Division of Biology & Biological Engineering, California Institute of Technology

5:25 p.m. Discussion

6:00 p.m. Adjourn Symposium

6:00 p.m. Reception/Poster Session at Martin Center

7:00 p.m. Adjourn

### Tuesday, September 23, 2014

7:00 a.m. Registration & Breakfast

8:00 a.m. Welcome & Introductions – W. Allan Walker, MD

# Tuesday, September 23, 2014 continued

#### SESSION III: Older Adults

Moderator: Samuel Klein, MD, Washington University School of Medicine in St. Louis

8:10 a.m. Keynote: "Microbiota in Older Adults – Changes, Associations, and Intervention Prospects"

Paul W. O'Toole, PhD

Professor of Microbial Genomics, School of Microbiology & Alimentary Pharmabiotic Centre, University College Cork, Ireland

8:40 a.m. Probiotics and the Elderly Microbiome – Is it ever too late to change?

Patricia L. Hibberd, MD, PhD

Professor, Department of Pediatrics, Harvard Medical School

Chief, Division of Global Health, Department of Pediatrics, Massachusetts General Hospital

9:10 a.m. Prevention of Recurrent Clostridium difficile Infection

Ciarán P. Kelly, MD

Professor of Medicine, Harvard Medical School

Director, Gastroenterology Fellowship Training, Medical Director, Celiac Center,

Beth Israel Deaconess Medical Center

9:40 a.m. Break

10:00 a.m. Diet, Microbiota and Atherosclerosis

Stanley L. Hazen, MD, PhD

Chair, Department of Cellular and Molecular Medicine, Vice Chair of Translational Research, Lerner Research Institute Section Head of Preventive Cardiology & Cardiac Rehabilitation, Heart and Vascular Institute, Cleveland Clinic

10:30 a.m. Discussion

11:00 a.m. Final Overview Keynote - "Future Directions"

Introduction – Emeran A. Mayer, MD Jonathan Braun, MD, PhD

Professor, Chair, Department of Pathology and Laboratory Medicine, David Geffen School of Medicine, University of California,

os Angeles

11:45 a.m. Closing Remarks – W. Allan Walker, MD

Adjourn

### Organizing Committee

W. Allan Walker, MD - Chair

Harvard Medical School

Richard Guerrant, MD

University of Virginia School of Medicine

Peter Holt, MD

The Rockefeller University

Emeran Mayer, MD

David Geffen School of Medicine, University of California, Los Angeles

Balfour Sartor, MD

University of North Carolina