Basic Science Pre-Meeting Course:

The Intersection of Nutrition and Infectious Disease: Challenges and Opportunities for Studying Nutrition-Disease Interactions in the Developing World

November 17, 2009; 8:30 a.m. – 5:00 p.m.
Marriott Wardman Park, Washington, DC USA

This course will target scientists, physicians, clinicians, graduate students and educators who wish to gain a better understanding of the consequences of undernutrition on infectious disease and other health outcomes, as well as an understanding of how infection contributes to nutritional deficiencies. Topics will include: an overview of the burden of malnutrition and enteric diseases in the developing world tools; technologies to identify normal gut flora and intestinal pathogens; nutrition and immune function and inflammation; maternal-child interactions; nutrition, infection and child development; and opportunities for interventions.

Course Organizers:
Laura Caulfield, PhD, The Johns Hopkins University Bloomberg School of Public Health
Daniel Carucci, MD, PhD, United Nations Foundation
Michael Gottlieb, PhD, Foundation for the National Institutes of Health

8:30 a.m.	Light Continental Breakfast
9:00 a.m.	Introduction — Course Goals and Outline
9:15 a.m.	The Burden of Nutritional Deficiencies and Enteric Diseases in the Developing World *Laura Caulfield, Johns Hopkins University, Baltimore, Maryland*
10:00 a.m.	The Intestinal Microbiota: Its Role in Health and Disease (part 1) *Andrew Goodman, Washington University, St. Louis, Missouri*
10:45 a.m.	The Intestinal Microbiota: Its Role in Health and Disease (part 2) *Catherine Lozupone, University of Colorado, Boulder, Colorado*
11:30 a.m.	Lunch (on your own)
1:00 p.m.	New Approaches to Identify Enteric Pathogens *Eric Houpt, University of Virginia, Charlottesville, Virginia*
1:30 p.m.	Undernutrition, Micronutrients and Immune Function *Margherita Cantorna, Pennsylvania State University, University Park, Pennsylvania*
2:00 p.m.	The Newborn Meets the Microbial World; Mother-Child Interactions and Protection from Infection (breastfeeding, etc.) *Lars Hanson, Goteborg University, Goteborg, Sweden*
2:30 p.m.	Break
3:00 p.m.	Gut Function, Signaling and Repair *D. Brent Polk, Vanderbilt University Medical Center, Nashville, Tennessee*
3:30 p.m.	Pre- and Probiotics: Nutritional Properties and Physiological *Speaker to be announced*
4:00 p.m.	Nutrition, Infection and Child Development *Susan Walker, University of the West Indies, Mona, Jamaica*
4:30 p.m.	Wrap-Up
5:00 p.m.	Course Adjourns