

**FASEB 2007
Program Plan for Summer Conference**

**Nutritional – Immunology: Its Role in Health and Disease
Omni Tucson National Golf Resort & Spa
Tucson, AZ
July 28-August 2, 2007**

Co-chairs:

Pamela J. Fraker
Michigan State University
East Lansing, MI

Simin Nikbin Meydani

Jean Mayer USDA Human Nutrition Research Center on Aging at Tufts University
Boston, MA

Saturday, July 28, 2007

4:00p.m. – 9:00p.m.	Conference Registration
6:00p.m. – 7:00 p.m.	FASEB Opening Reception
7:00p.m. – 8:30 p.m.	Dinner
8:45p.m. – 10:00p.m.	Simin Nikbin Meydani, Keynote speaker <i>“Nutrition and immune response: from mouse to man and bench to the table”</i>

Sunday, July 29, 2007

7:30a.m. – 9:00a.m.	Breakfast
	Morning Free
12:00p.m. – 1:00p.m.	Lunch

Session 1: 1:00p.m. – 4:00p.m. **Impact of Nutritional Status on Gene Expression of Cells of the Immune System**

Chair: Carl Keen, University of California, Davis

1:00p.m. – 1:35p.m.	Speaker 1, Pam Fraker, Michigan State University, East Lansing, MI <i>“Reprogramming of the innate system by zinc deficiency: survival genes”</i>
1:35p.m. – 2:10p.m.	Speaker 2, Carl Keen, University of California, Davis <i>“Modulation of gene expression and immune function by flavonoids”</i>
2:10p.m. – 2:50p.m.	Group photo and FASEB Sponsored Coffee

Break

2:50p.m. – 3:25p.m. Speaker 3, Sung Nim Han, JMUSDA-HNRCA at Tufts University, Boston, MA
“Vitamin E regulation of T cell genes involved in cell cycle regulation”

3:25p.m. – 4:00p.m. Speaker 4, A. Catharine Ross, Penn State University, Happy Valley, PA
“Antigen presentation and T and B-cell function”

4:00p.m. – 6:00p.m. Poster Session

6:00p.m. – 7:00p.m. Dinner

Session 2: 7:00p.m. – 9:45p.m. **Obesity Induced Immune Dysfunction**
Chair: Susan Fried, University of Maryland, College Park, MD

7:00p.m. – 7:35p.m. Speaker 1, Susan Fried, University of Maryland, College Park, MD
“Adipose tissue derived cytokines and inflammation”

7:35p.m. – 8:10p.m. Speaker 2, Martin Obin, JMUSDA-HNRCA at Tufts University
“Adipose tissue macrophages: key modulators of obesity-associated inflammation and metabolic complications”

8:10p.m. – 8:25p.m. Break

8:25p.m. – 9:00p.m. Speaker 3, Kate Claycombe, Michigan State University, East Lansing, MI
“Obesity-associated inflammatory cytokines: role of adipose tissue”

9:00p.m. – 9:35p.m. Speaker 4, Giamila Fantuzzi, University of Illinois, Chicago, IL
“Adiponectin in the regulation of mucosal inflammation”

9:35p.m. – 9:45p.m. Questions and Discussion

Monday, July 30, 2007

7:30a.m. – 9:00a.m. Breakfast
Morning Free
12:00p.m. – 1:00p.m. Lunch

Session 3: 1:00p.m. – 4:00p.m. Modulation of Inflammatory Responses by Nutrient Receptors

Session Chair: Daniel Hwang, WHNRC, University of California, Davis

1:00p.m. – 1:35p.m. Speaker 1, Daniel Hwang, WHNRC, University of California, Davis
“Dietary modulation of inflammatory responses that are mediated by pattern recognition receptors”

1:35p.m. – 2:10p.m. Speaker 2, Michael W. Freeman, Harvard Medical School, Boston, MA
“Role of receptor-mediated lipid uptake in atherosclerosis”

2:10p.m. – 2:30p.m. FASEB Sponsored Coffee Break

2:30p.m. – 3:05p.m. Speaker 3, Michael G. Freeman, Children's Hospital, Boston, MA
“Cholesterol-sensitive signaling pathways in cancer”

3:05p.m. – 3:40p.m. Speaker 4, Jerrold Olefsky, M.D., University of California, San Diego, CA
“Inflammation and insulin resistance: role of receptors”

3:40p.m. – 4:00p.m. Questions and Discussion

4:00p.m. – 6:00p.m. Poster Session

6:00p.m. – 7:00p.m. Dinner

Session 4: 7:00p.m. – 10:00p.m. Changes in Inflammation, T-cell function, and Disease States by Dietary PUFA

Session Chair: Phillip Calder, University of Southampton, Southampton, England

7:00p.m. – 7:30p.m. Speaker 1, Gabriel Fernandes, University of Texas, San Antonio, TX
“Inhibition of autoimmunity and bone loss by n-3 fatty acids”

7:30p.m. – 8:00p.m.	Speaker 2, Phillip Calder, University of Southampton, Southampton, England <i>“Modulation of inflammation by polyunsaturated fats”</i>
8:00p.m. – 8:15p.m.	Break
8:15p.m. – 8:45p.m.	Speaker 3, James Pestka, Michigan State University, East Lansing, MI <i>“Suppression of protein kinases by PUFA (n-3) mediates attenuation of experimental IgA mediated nephropathy”</i>
8:45p.m. – 9:15p.m.	Speaker 4, Christopher Jolly, University of Texas, Austin, TX <i>“Changes in T-lymphocyte function by dietary n-3 polyunsaturated fatty acids”</i>
9:15p.m. – 9:45p.m.	Speaker 5, Kevin Fritsche, University of Missouri, Columbia, MO <i>“The impact of omega-3 fats on T-cell defense against tumors”</i>
9:45p.m. – 10:00p.m.	Questions and Discussion

Tuesday, July 31, 2007

7:30a.m. – 9:00a.m.	Breakfast
	Morning Free
12:00p.m. – 1:00p.m.	Lunch

Session 5: 1:00p.m. – 4:00p.m. Immunosenescence

Session Chair: Richard Miller, University of Michigan, Ann Arbor, Michigan

1:00p.m. – 1:35p.m.	Speaker 1, Richard Miller, University of Michigan, Ann Arbor, Michigan <i>“Immunosenescence as a predictor of morbidity and mortality in the aged”</i>
1:35p.m. – 2:10p.m.	Speaker 2, Ann R. Falsey, University of Rochester, Rochester, NY <i>“Viral respiratory infections and morbidity in elderly”</i>
2:10p.m. – 2:30p.m.	FASEB Sponsored Coffee Break
2:30p.m. – 3:05p.m.	Speaker 3, Janko Nikolich-

Zugich, Oregon Health Science University,
Portland, OR

*“Aging, immunity and caloric restriction in
Rhesus Macaques”*

3:05p.m. – 3:40p.m.

Speaker 4, Dayong Wu, JM USDA Human
Nutrition Research Center on Aging at Tufts
University, Boston, MA

“Aging and adipose tissue inflammation”

3:40p.m. – 4:00p.m.

Questions and Discussion

4:00p.m. – 6:00p.m.

Poster Session

6:00p.m. – 7:00p.m.

Dinner

**Session 6: 7:00p.m. – 9:45p.m. Novel Nutritional Intervention in Immune
and Inflammatory Processes and Related Diseases**

Session Chair: Susan Percival, University of Florida

7:00p.m. – 7:35p.m.

Speaker 1, Harsharnjit S. Gill, Massey
University, Palmerston North, New Zealand.

“Probiotics and immunomodulation”

7:35p.m. – 8:10p.m.

Speaker 2, Susan Percival, University of
Florida

*“Phytochemical enhancement of gamma delta
T cells in humans”*

8:10p.m. – 8:25p.m.

Break

8:25p.m. – 9:00p.m.

Speaker 3, Mohsen Meydani, JMUSDA-
HNRCA at Tufts University, Boston, MA

*“Oat-derived avenanthramides, pro-
inflammatory cytokines and atherosclerosis”*

9:00p.m. – 9:35p.m.

Speaker 4, Rodney Johnson, University of
Illinois, Urbana-Champaign, IL

*“Antioxidants, inflammatory cytokines and age-
related cognitive impairment”*

9:35p.m. – 9:45p.m.

Questions and Discussion

Wednesday, August 1, 2007

7:30a.m. – 9:00a.m.

Breakfast

Morning Free/Organized Activities

Times and Activities TBD

12:00p.m. – 1:00p.m. Lunch

Session 7: 1:00p.m. – 4:00p.m. Nutrient Modulation of Gut Associated Immunity

Session Chair: Allen Walker, Harvard Medical School

1:00p.m. – 1:35p.m. Speaker 1, Allen Walker, Harvard Medical School
“Probiotics and gut associated immune response”

1:35p.m. – 2:10p.m. Speaker 2, Joseph Urban, USDA Human Nutrition Research Center, Beltsville, MD
“Antioxidant modulation of gut associated immunity”

2:10p.m. – 2:30p.m. FASEB Sponsored Coffee Break

2:30p.m. – 3:05p.m. Speaker 3, Eamonn Quigley, National University of Ireland, Cork, Ireland
“Role of diet in pathogenesis of inflammatory bowel diseases”

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3:05p.m. – 3:40p.m. Speaker 4, Norm Hord, Michigan State University, East Lansing, MI
“Interaction of luminal bacteria: impact on colon epithelial cells in the promotion of carcinogenesis”

3:40p.m. – 4:00p.m. Questions and Discussion

4:00p.m. – 6:00p.m. Poster Session -Optional

6:00p.m. – 7:00p.m. Dinner

Session 8: 7:00p.m. – 9:45p.m. The Interplay Between Nutritional Status, Infection, and Host Defense

Session Chair: Melinda Beck, University of North Carolina, Chapel Hill, NC

7:00p.m. – 7:35p.m. Speaker 1, Davidson Hamer, Boston University School of Public Health, Boston, MA
“Role of micronutrients in the prevention and treatment of malaria”

7:35p.m. – 8:10p.m. Speaker 2, Wafaie Fawzi, Harvard School of Public Health, Boston, MA

“Micronutrient modulation of the progression of HIV infection in adults and children”

8:10p.m. – 8:25p.m.

Break

8:25p.m. – 9:00p.m.

Speaker 3, Melinda Beck, University of North Carolina, Chapel Hill, NC
“Effects of selenium deficiency on the immune response to influenza infection”

9:00p.m. – 9:35p.m.

Speaker 4,
Charles Stephensen, WHNRC, University of California, Davis, CA
“Vitamin A, immunity and infection”

9:35p.m. – 9:45p.m.

Questions and Discussion

Thursday, August 2, 2007

7:30a.m. – 9:00a.m. Breakfast

Session 9: 9:00a.m. – 11:35a.m. Changes in Tumoricidal Activity by Nutrients

Session Chair: Kent L. Erickson, University of California, Davis, CA

9:00a.m. – 9:35a.m. Speaker 1, Kent L. Erickson, University of California, Davis, CA
“Mechanism of conjugated linoleic acid tumoricidal activity”

9:35a.m. – 10:10a.m. Speaker 2, Jake Bukowski, Harvard Medical School, Boston, MA
“Is the increase in gamma, delta T-cell priming by dietary alkylamines sufficient to prevent cancer?”

10:10a.m. – 10:25a.m. FASEB Sponsored Coffee Break

10:25a.m. – 11:00a.m. Speaker 3, Robert Chapkin, University of Texas A&M, Austin, TX
“N-3 PUFA and colon cancer”

11:00a.m. – 11:35a.m. Speaker 4, Xiang-Dong Wang, JM USDA HNRCA at Tufts University, Boston, MA
“Alteration of retinoid metabolism and signaling by chronic alcohol consumption: implication for cancer risk”

11:35p.m. – 12:30p.m. Box Lunches Available

END OF CONFERENCE

For additional information contact:

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