



FASEB

Federation of American Societies
for Experimental Biology

Science Research Conferences

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Immunological Aspects of Metabolic Syndrome

August 12-17, 2018

Base Village Conference Center, Snowmass, CO

Co-Organizers

Suneil Koliwad, MD, PhD
UCSF

Julie Jameson, PhD
CSU San Marcos

Dongsheng Cai, MD, PhD
Albert Einstein College of Medicine

Mark Febbraio, PhD
Garvan Institute of Medical Research

Program Agenda

SUNDAY August 12

4:00-9:00 PM

Conference Registration

5:00-6:00 PM

FASEB SRC Welcome Reception

6:00-7:00 PM

Dinner

7:00-8:00PM

Keynote Address: *Regulation of organismal metabolism by T cells*

Diane Mathis, PhD

Harvard Medical School, Boston, MA

MONDAY August 13

8:30-11:30 AM

Session 1: Nutritional aspects of immunity and inflammation

Chair: Barbara Kahn, MD

Beth Israel Deaconess Medical Center, Boston, MA

Speaker 1: Joel Schilling, MD, PhD

Washington University, St. Louis, MO

Lysosomal biology and cardiac function

Speaker 2: Barbara Kahn, MD

Beth Israel Deaconess Medical Center, Boston, MA

Modified fatty acids and metabolic regulation

Speaker 3: Satchidanada Panda, PhD

Salk Institute, La Jolla, CA

Time restricted feeding and manipulation of the microbiome

Speaker 4: Wally Wang, PhD

UC Berkeley, Berkeley, CA

Nutrition, lipolysis, and metabolic control across all organ types

+Two short talks chosen from abstracts

11:30-12:15 PM 5 minute ePoster presentations Part 1

12:30-1:30 PM Lunch

1:30-4:00 PM Free time

4:00-5:50PM

Session 2: Cellular Immunometabolism

Chair: Mark Febbraio, PhD

Garvan Institute of Medical Research, Sydney, Australia

Speaker 1: Mark Febbraio, PhD

Garvan Institute of Medical Research, Sydney, Australia

Macrophage function in high-fat diet and insulin resistance

Speaker 2: Andrew Murphy, PhD

Baker Heart and Disease Institute, Melbourne, Australia

A high salt diet accelerates atherosclerosis by modulating haematopoiesis

Speaker 3: Janelle Ayres, PhD

Salk Institute, La Jolla, CA

Inflammasome activation in infection

Speaker 4: Vishwa Deep Dixit, DVM, PhD

Yale, New Haven, CT

Integrative cell signaling and metabolism

Dinner 6-7pm

7:00-9:00 PM Poster session 1

TUESDAY August 14

At breakfast: Meet the expert mentoring session #1, “Taking the Path from Trainee to Faculty: How to Navigate Successfully” This session will feature the Assistant Professors that are presenting and attending the meeting. Post-doctoral fellows and students that are interested in getting guidance in successfully applying for academic positions will sign up to sit for breakfast with Assistant Professors who have just finished this process. The group will be divided into one expert per group of five trainees. Together they will discuss topics such as chalk talks, applications, interviews, and successfully finding funding.

9:00-11:00 AM

Session 3: Immunometabolism in diabetes

Chair: Dongsheng Cai, MD, PhD

Albert Einstein College of Medicine, NY

Speaker 1: Gokhan Hotamisligil, MD, PhD

Harvard School of Public Health, MA

Inflammation in insulin resistance and diabetes

Speaker 2: Carey Lumeng, MD, PhD

University of Michigan, MI

Adipose macrophages in type 2 diabetes

Speaker 3: Alexis Stranahan, PhD

Medical College of Georgia, GA

Augusta University

Cognitive impairment in obesity/diabetes via neural inflammation

Speaker 4: Dongsheng Cai, MD, PhD

Albert Einstein College of Medicine, NY

Hypothalamic inflammation in diabetes

11:00-12:15 PM

Industry Career Workshop

12:30-1:30 PM Lunch

1:30-6:00 PM Free time (White water rafting 12:30-5:00pm)

Dinner 6-7pm

7:00-8:30 PM

Session 4: Immune signals, lipid disorders and complications

Chair: Liangyou Rui, PhD

University of Michigan, MI

Speaker 1: Liangyou Rui, PhD

University of Michigan, MI

Inflammatory pathways in nonalcoholic fatty liver disease

Speaker 2: Allison Xu, PhD

University of California San Francisco, CA

Leptin in control of lipid metabolism and fatty liver

Speaker 3: Klaus Ley, PhD

La Jolla Institute for allergy and Immunology, CA

Immunity and vaccine for atherosclerosis

WEDNESDAY August 15

At breakfast: Meet the expert mentoring session #2, "Pursuing a career in biotechnology" This session will follow a similar format as the previous session, however the featured experts will include scientists from the biotechnology community. The group will be divided into one expert per group of five trainees.

9:00-11:00 AM

Session 5: Immunological aspects governing the function of fat

Chair: Shingo Kajimura, PhD

UCSF, San Francisco, CA

Speaker 1: Lev Becker, PhD

University of Chicago, Chicago, IL

Proteomics in the study of adipocytes and inflammation

Speaker 2: Shingo Kajimura, PhD

UCSF, San Francisco, CA

Engineering fat cells to fight obesity

Speaker 3: Michael Rodeheffer, PhD

Yale, New Haven, CT

Sex specific adipogenic programs and fat distribution

Speaker 4: Karen Clement, MD

Institut National de la Sante et de la Recherche Medicale (INSERM), France

Fat distribution and metabolic control in people

11:30-12:15 PM 5 minute ePoster presentations Part 2

12:30-1:30 PM Lunch

1:30-4:00 PM Career Development Session (Biotech/Industry/Academic)

4:00-5:50PM

Session 6: Neuroinflammation

Chair: Suneil Koliwad, MD, PhD

UCSF, San Francisco, CA

Speaker 1:

TBD

Speaker 2: Josh Thaler, MD, PhD

University of Washington, Seattle, WA

Astrocytes and microglia in males and females

Speaker 3: Min-Seon Kim, PhD

University of Ulsan College of Medicine, Seoul, Korea

Nitric oxide signaling in the brain

Speaker 4: Suneil Koliwad, MD, PhD

UCSF, San Francisco, CA

Microglial control of metabolic function

Dinner 6-7pm

7:00-9:00 PM Poster session 2

THURSDAY August 16

9:00-12:15 AM

Session 7: Inflammation, vasculature and hypertension

Chair: Zhongjie Sun, MD, PhD

University of Oklahoma, OK

Speaker 1: Colin N. Young, Ph.D.

George Washington University, Washington DC

Stress and Inflammation in central mechanism of hypertension

Speaker 2: Barbara Alexander, PhD

University of Mississippi Medical Center, MS

Early-life nutrition, inflammation and hypertension

Speaker 3: Alan Johnson, PhD,

University of Iowa, IA

Leptin, Immunity and blood pressure regulation

Speaker 4: Zhongjie Sun, MD, PhD

University of Oklahoma, OK

Cytokines and anti-aging genes in hypertension and diabetes

+Two short talks chosen from abstracts

12:30-1:30 PM Lunch

1:30-4:00 PM Free time (Group Activity- River Rafting)

4:00-5:50PM

Session 8: Cellular Immunometabolism II

Chair: Julie Jameson, PhD

CSU San Marcos, San Diego, CA

Speaker 1: Marjana Tomic-Canic, PhD

University of Miami, Miami, FL

Chronic inflammation in wound repair

Speaker 2: Craig Walsh, PhD

University of California, Irvine, CA

Regulation of mitochondrial metabolism by DRAK2 in effector T cells

Speaker 3: Lydia Lynch, PhD

TBD

Speaker 4: Julie Jameson, PhD

CSU San Marcos, San Diego, CA

Mechanisms of epidermal T cell dysfunction in obesity

Dinner 6-7pm

7:00-9:00 PM Social Event

FRIDAY August 17

9:00-12:00 AM

Session 9: Obesity, Inflammation and Cancer

Chair: TBD

TBD

Speaker 1: TBD

TBD

Speaker 2: David Guertin, PhD

University of Massachusetts Medical Center, Worcester, MA

The role of mTOR in obesity and cancer

Speaker 3: Michael Karin, PhD

UC San Diego, San Diego, CA

Oxidative stress and liver cancer

Speaker 4: Doug Green, PhD

St. Jude Children's Research Hospital

Mitochondrial pathways and cancer