

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Beige and Brown Fat: Basic Biology and Novel Therapeutics (D5)

April 17-22, 2015 • Snowbird Resort • Snowbird, Utah, USA
Scientific Organizers: Bruce M. Spiegelman and Sven Enerbäck
Supported by the Directors' Fund

Abstract & Scholarship Deadline: December 16, 2014 / Abstract Deadline: January 15, 2015 / Discounted Registration Deadline: February 18, 2015

FRIDAY, APRIL 17

Registration

SATURDAY, APRIL 18

Keynote Address

Vamsi K. Mootha, Massachusetts General Hospital, USA
Mitochondria, Bioenergetics and Therapeutics

Brown and Beige: Lineage and Development I

Patrick Seale, University of Pennsylvania, USA
The Brown Fat/Muscle Decision

James G. Granneman, Wayne State University School of Medicine, USA
Beige and White - A Common Origin

Philipp E. Scherer, University of Texas Southwestern Medical Center, USA
De novo Birth of Beige Fat Cells

Short Talk(s) Chosen from Abstracts

Brown and Beige: Lineage and Development II

Barbara Cannon, Stockholm University, Sweden
White Beige/Brite and Brown Adipocytes

Stephan Herzig, German Cancer Research Center, Germany
Transcriptional Pathways in de novo Recruitment of Brown Adipocytes

Saverio Cinti, University of Ancona, Italy
Masking and Unmasking Brown Adipocytes

Short Talk Chosen from Abstracts

Poster Session 1

SUNDAY, APRIL 19

Transcriptional Control of Brown Fat I

Shingo Kajimura, University of California, San Francisco, USA
Enzymatic Functions of the PRDM16 Complex

Bruce M. Spiegelman, Harvard Medical School, USA
Beige Fat and its Role in Systemic Energy Homeostasis

Stephen R. Farmer, Boston University School of Medicine, USA
PPARgamma and its Mechanisms of Browning

Domenico Accili, Columbia University, USA
Sirtuins and Brown Fat Development

Short Talk(s) Chosen from Abstracts

Transcriptional Control of Brown Fat II

Ajay Chawla, University of California, San Francisco, USA
Alternative Pathway to Browning Via Macrophages

Peter Tontonoz, HHMI/University of California, Los Angeles, USA
Recruitment of TLE3 or Prdm16 by PPARgamma Specifies Lipid Storage vs. Thermogenic Gene Programs

Laurie J. Goodyear, Joslin Diabetes Center/ Harvard Medical School, USA
Exercise Regulation of Beige and Brown Fat

Short Talk Chosen from Abstracts

Poster Session 2

MONDAY, APRIL 20

Human BAT and Therapeutic Modulation I

Sven Enerbäck, Göteborg University, Sweden
Human Brown Adipose Tissue

Aaron Cypess, Harvard Medical School, USA
The Responses of Human Brown, Beige, and White Fat to Pharmacological Stimulation

Speaker to be Announced

Wouter D. van Marken Lichenbelt, Maastricht University, Netherlands
Recruitment of Human Brown and Beige Fat

Short Talk(s) Chosen from Abstracts

Human BAT and Therapeutic Modulation II

Masayuki Saito, Tenshi College, Japan
Brown Adipose Tissue as a Therapeutic Target in Human Obesity

Yu-Hua Tseng, Joslin Diabetes Center/Harvard Medical School, USA
BMP Signaling and Brown Fat Development

Jennifer L. Lachey, Ember Therapeutics, USA
Novel Polypeptide Therapeutics that Work through Beige Adipose Tissues

Short Talk Chosen from Abstracts

Poster Session 3

TUESDAY, APRIL 21

Novel Pathways of Energy Expenditure

Sheila Collins, Sanford-Burnham Medical Research Institute, USA
Hormonal Signals Orchestrating Expansion of Brown Adipocytes and Thermogenesis from Mice to Humans

Timothy J. Bartness, Georgia State University, USA
Role of the SNS Input To and Sensory Output From Brown Adipose Tissue in Thermogenesis

Antonio J. Vidal-Puig, University of Cambridge, UK
BMP 8b and Brown Fat Thermogenesis

Alexander Pfeifer, University of Bonn, Germany
CyclicGMP Signaling Enhances Brown Fat Function - Pharmacological Studies

Short Talk(s) Chosen from Abstracts

Biochemistry and Bioenergetics of BAT

Yuriy Kirichok, University of California, San Francisco, USA
Mechanism of Fatty-Acid-Dependent UCP1 Uncoupling in Brown Fat Mitochondria

Leslie P. Kozak, Polish Academy of Sciences, Poland
The Genetics of Brown Adipocyte Induction in White Fat Depots

Mary-Ellen Harper, University of Ottawa, Canada
ROS, Redox and the Control of UCP1

Short Talk Chosen from Abstracts

WEDNESDAY, APRIL 22

Departure