

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Functional Neurocircuitry of Feeding and Feeding Disorders (J8)

Scientific Organizers: Roger D. Cone, Lori M. Zeltser and Matthew R. Hayes

Sponsored by Novo Nordisk A/S

Obesity and Adipose Tissue Biology (J7)

Scientific Organizers: Matthias Blüher, Philipp E. Scherer and Anne Bouloumié

February 10-14, 2019 • Fairmont Banff Springs • Banff, Alberta, Canada

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This activity is also supported by an educational grant from Lilly

Abstract & Scholarship Deadline: October 10, 2018 / Abstract Deadline: November 8, 2018 / Discounted Registration Deadline: December 11, 2018

SUNDAY, FEBRUARY 10

Arrival and Registration

MONDAY, FEBRUARY 11

Welcome and Keynote Address (J8)

Richard D. Palmiter, HHMI/University of Washington, USA
Neural Circuitry Underlying Feeding Behavior

Welcome and Keynote Address (J7)

Stanley Ulijaszek, Institute of Social and Cultural Anthropology,
University of Oxford, UK
Framing Obesity as a Problem

Neural Circuitry Underlying Feeding Behavior (J8)

Linda Rinaman, Florida State University, USA
Stress, Emotional State, and Food Intake

J. Nicholas Betley, University of Pennsylvania, USA
Circuits Regulating Nutritive Control of Feeding

Matthew R. Hayes, University of Pennsylvania, USA
Role of GLP-1 Signaling

Short Talk(s) Chosen from Abstracts

Drug Discovery/Development in Obesity (J7)

Matthias H. Tschöp, Helmholtz Zentrum München and Technische
Universität München, Germany
Chemical Biotechnology Applied to Metabolic Diseases

Nana Gletsu-Miller, Purdue University, USA
Treatment or Cure of Obesity by Surgery?

Alan R. Saltiel, University of California, San Diego, USA
Inflammation at the Crossroads of Obesity and Energy Homeostasis

Short Talk(s) Chosen from Abstracts

Workshop 1: Research Opportunities in Eating Disorders (J8)

Genetic Disorders of Feeding and Energy Storage (J8)

I. Sadaf Farooqi, University of Cambridge, UK
Genetics of Leanness

Herbert Herzog, Garvan Institute, Australia
Prader-Willi Syndrome

Atul Chopra, Baylor College of Medicine, USA
Human Genetics Aided Discovery of a New Metabolic Hormone

Short Talk(s) Chosen from Abstracts

Brown/Beige/BRITE Fat Activation and Function (J7)

C. Ronald Kahn, Joslin Diabetes Center and Harvard Medical
School, USA
*Adipose Tissue MicroRNAs as Novel Adipokines in Regulation of
Metabolism*

Camilla Charlotte Schéele, University of Copenhagen, Denmark
*Metabolic Regulation and the Anti-Obesity Perspectives of Human
Brown Fat*

Kirsi A. Virtanen, Turku University Hospital and University of Turku,
Finland
BAT - A Target of Future Weight Loss Strategies

Short Talk(s) Chosen from Abstracts

Poster Session 1

TUESDAY, FEBRUARY 12

Anorexia Nervosa (J8)

Janet Treasure, King's College London, UK
Understanding and Treating Anorexia Nervosa

Walter Kaye, UC San Diego Health, USA
Anorexia and Bulimia Nervosa

Patrick Sullivan†, University of North Carolina, USA
Genetics of Anorexia Nervosa

Lori M. Zeltser, Columbia University, USA
Animal Models of Anorexia Nervosa

Short Talk(s) Chosen from Abstracts

Adipose Tissue and Immune Cells (J7)

Anne Bouloumié, INSERM, France
The Adipose Tissue Immune Cells, Beyond Inflammation

Ruth E. Gimeno, Eli Lilly & Company, USA
New Therapeutic Approaches to Weight Loss and Glucose Control

Tim Julius Schulz, German Institute of Human Nutrition, Germany
*Deciphering the Adipocytic Lineage: Stem Cell Biology and
Regeneration*

Short Talk(s) Chosen from Abstracts

Neural Circuits Underlying Nausea, Emesis, and Aversive Responses (J8)

Bart C. De Jonghe, University of Pennsylvania, USA
Neurocircuitry of Nausea in Chemotherapy

Samuel N. Breit, St. Vincents Hospital, Australia
Anatomy of the GDF15 Pathway

Zachary Knight, University of California, San Francisco, USA
The Neurobiology of Hunger

Short Talk(s) Chosen from Abstracts

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Adipose Tissue Heterogeneity (J7)

Philipp E. Scherer, University of Texas Southwestern Medical Center, USA

Mechanisms of Adipose Tissue Dysfunction in Obesity

David B. Savage, University of Cambridge, UK

A Lipodystrophic Perspective on Insulin Resistance

Ellen E. Blaak, Maastricht University, Netherlands

Sex Differences in Adipose Tissue Metabolism and Tissue-specific Insulin Resistance

Mikael Rydén, Karolinska Institutet, Sweden

Adipocyte Function and Development in Subcutaneous and Visceral Fat Depots

Short Talk(s) Chosen from Abstracts

Poster Session 2

WEDNESDAY, FEBRUARY 13

Telencephalic Control of Feeding Behavior (J8)

Benjamin R. Arenkiel, Baylor College of Medicine, USA

Forebrain Circuits Regulating Appetite Suppression

Scott E. Kanoski, University of Southern California, USA

Hippocampal Control of Feeding

Mark L. Andermann, Beth Israel Deaconess Medical Center, USA

Hunger-Dependent Cortical Processing of Learned Food Cues

Ivan E. de Araujo, Yale University School of Medicine, USA

Sensorimotor Control of Feeding

Short Talk(s) Chosen from Abstracts

Environment and Obesity (J7)

J. Andrew Pospisilik, Van Andel Institute, USA

Epigenetic and Obesity

Nathalie Delzenne, Université Catholique de Louvain, Belgium

Dealing with the Gut Microbiota in Obesity

Bruce A. Bunnell, Tulane University School of Medicine, USA

Endocrine Disruptors as a Cause of Obesity?

Kristen E. Boyle, University of Colorado School of Medicine, USA

Maternal Obesity and Offspring Adiposity: Clues from Umbilical Cord Mesenchymal Stem Cells

Short Talk(s) Chosen from Abstracts

Feeding Across the Lifespan (J8)

Sebastien G. Bouret, University of Southern California, USA

Regulatory Programs that Direct Development of Hypothalamic Circuits Regulating Food Intake

Kelly L. Klump, Michigan State University, USA

Developmental Differences in Neurobiological Risk Factors for Binge Eating across Adolescence: Evidence from Animal and Human Models

Susan Carnell, Johns Hopkins University, USA

Childhood Eating Behaviors

Short Talk(s) Chosen from Abstracts

How Can We Translate Novel Discoveries into Obesity Treatment? (J7)

Kevin L. Grove, Novo Nordisk and Oregon National Primate Research Center, USA

Anti-Obesity Drug Development

Barbara B. Kahn, Beth Israel Deaconess Medical Center, Harvard Medical School, USA

Adipose Tissue Derived Lipokines

Max Nieuwdorp, Academic Medical Center, University of Amsterdam, Netherlands

The Gut Microbiome – Tool or Target for Obesity Treatment?

Short Talk(s) Chosen from Abstracts

Poster Session 3

THURSDAY, FEBRUARY 14

Disease Cachexia (Joint)

Stefan D. Anker, Universitätsmedizin Berlin, Germany

Cardiac Cachexia

Bruce M. Spiegelman, Harvard Medical School, USA

Cachexia and Brown Fat

Daniel L. Marks, Oregon Health & Science University, USA

Neural Circuitry Mediating Cachexia

Roger D. Cone, University of Michigan, USA

Mechanism of the Melanocortin-3 Receptor in the Suppression of Cachexia

Short Talk(s) Chosen from Abstracts

Workshop 2: Late Breaking Topics from Abstracts (J8)

Short Talks Chosen from Abstracts

Clinical Obesity Management – Round Table Discussion (J7)

Matthias H. Tschöp, Helmholtz Zentrum München and Technische Universität München, Germany

Anti Obesity Drug Development

Matthias Blüher, University of Leipzig, Germany

New Emerging Treatment Tools

Short Talks Chosen from Abstracts

Drug Discovery for Eating Disorders (J8)

Peter Kuehnen, Charité - Universitätsmedizin Berlin, Germany

Treatment of Syndromic Eating Disorders

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Shamina M. Rangwala, Janssen, Johnson & Johnson, USA
GFRAL/GDF-15

Xinle Wu, Eli Lilly and Company, China
GFRAL/GDF-15

Short Talk Chosen from Abstracts

Adipose Tissue Microenvironment (J7)

Christoph Buettner, Mount Sinai School of Medicine, USA
Adipose Tissue Adaptive Thermogenesis

Catherine C. Muller, Institut de Pharmacologie et de Biologie
Structurale, France
Adipose Tissue and Cancer: A Dangerous Dynamic Duo

Steven E. Shoelson, Harvard Medical School, Joslin Diabetes
Center, USA

*Adipose Tissue Microenvironment as Target of New Emerging
Therapies*

Short Talk Chosen from Abstracts

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (J8)

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (J7)

FRIDAY, FEBRUARY 15

Departure