

## Obesity and Adipose Tissue Biology (J7)

joint with the meeting on [Functional Neurocircuitry of Feeding and Feeding Disorders \(J8\)](#)

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

**February 10–14, 2019**

**Fairmont Banff Springs, Banff, Alberta, Canada**

**Sponsored by MedImmune and Novo Nordisk A/S**

***This activity is also supported by an educational grant from Lilly***

IT'S NOT TOO LATE TO SUBMIT YOUR ABSTRACT. Abstracts received can no longer be considered for oral short talks. Abstracts for poster display opportunities will be accepted until 6 weeks before meeting start date midnight MST.

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### DEADLINES:

*\*All deadlines end at 11:59 PM US Mountain Standard Time*

Scholarship Deadline: Oct 23, 2018 [\[details\]](#)

Discounted Abstract Deadline: Oct 23, 2018 [\[details\]](#)

Abstract Deadline: Nov 8, 2018 [\[details\]](#)

Discounted Registration Deadline: Dec 11, 2018 [\[details\]](#)

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## Conference Program [Print](#) | [View meeting in 12 hr \(am/pm\) time](#)

The meeting will begin on Sunday, February 10 with registration from 16:00 to 20:00 and a welcome mixer from 18:00 to 20:00. Conference events conclude on Thursday, February 14 with a closing plenary session from 17:00 to 19:00, followed by a social hour and entertainment. We recommend return travel on Friday, February 15 in order to fully experience the meeting.

### SUNDAY, FEBRUARY 10

|                                                                        |                                 |                                 |
|------------------------------------------------------------------------|---------------------------------|---------------------------------|
| 16:00–20:00                                                            | <b>Arrival and Registration</b> | <a href="#">Van Horne Foyer</a> |
| 18:00–20:00                                                            | <b>Welcome Mixer</b>            | <a href="#">Van Horne Foyer</a> |
| No registration fees are used to fund alcohol served at this function. |                                 |                                 |

### MONDAY, FEBRUARY 11

|                                                                                                                                     |                                    |                               |
|-------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------|
| 07:00–08:00                                                                                                                         | <b>Breakfast</b>                   | <a href="#">Mezzanine 2</a>   |
| 08:00–09:00                                                                                                                         | <b>Welcome and Keynote Address</b> | <a href="#">Van Horne A/B</a> |
| <a href="#">Registered attendees</a> can view abstracts starting on 01/10/2019                                                      |                                    |                               |
| Stanley Uljaszek, Institute of Social and Cultural Anthropology,<br>University of Oxford, UK<br><i>Framing Obesity as a Problem</i> |                                    |                               |

Following Session is for [Functional Neurocircuitry of Feeding and Feeding Disorders \(J8\)](#).

|                                                                                |                                    |
|--------------------------------------------------------------------------------|------------------------------------|
| 08:00–09:00                                                                    | <b>Welcome and Keynote Address</b> |
| <a href="#">Registered attendees</a> can view abstracts starting on 01/10/2019 |                                    |

[Van Horne C](#)

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

09:00–12:00

**Drug Discovery/Development in Obesity**[Van Horne A/B](#)

[Registered attendees](#) can view abstracts starting on 01/10/2019

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

**Coffee Break**

**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**

Following Session is for [Functional Neurocircuitry of Feeding and Feeding Disorders \(J8\)](#).

09:00–12:00

**Neural Circuitry Underlying Feeding Behavior**

[Registered attendees](#) can view abstracts starting on 01/10/2019

[Van Horne C](#)

**Linda Rinaman**, Florida State University, USA  
*Neural Circuits Linking Stress and Feeding*

**Coffee Break**

**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**

12:00–17:00

**On Own for Lunch**

12:00–13:00

**Poster Setup**[Mezzanine 2](#)

13:00–22:00

**Poster Viewing**[Mezzanine 2](#)

14:30–16:30

**Workshop 1: Targeting Brown Adipose Tissue for  
Obesity Treatment**

Following Session is for [Functional Neurocircuitry of Feeding and Feeding Disorders \(J8\)](#).

14:30–16:30

**Workshop 1: Research Opportunities in Eating  
Disorders**[Van Horne C](#)

16:30–17:00

**Coffee Available**[Van Horne Foyer](#)

17:00–19:00

**Brown/Beige/BRITE Fat Activation and Function**[Van Horne A/B](#)

[Registered attendees](#) can view abstracts starting on 01/10/2019

**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  
*The plasticity of human brown adipose tissue*

**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**

Following Session is for [Functional Neurocircuitry of Feeding and Feeding Disorders \(J8\)](#).

17:00–19:00

## Genetic Disorders of Feeding and Energy Storage

[Registered attendees](#) can view abstracts starting on 01/10/2019

[Van Horne C](#)

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

Herbert Herzog, Garvan Institute, Australia  
*Prader-Willi Syndrome*

Atul Chopra, Case Western Reserve University, USA  
*Human Genetics Aided Discovery of a New Metabolic Hormone*

Short Talk(s) Chosen from Abstracts

19:00–20:00

## Social Hour with Lite Bites

No registration fees are used to fund alcohol served at this function.

[Mezzanine 2](#)

19:30–22:00

## Poster Session 1

[Mezzanine 2](#)

## TUESDAY, FEBRUARY 12

07:00–08:00

## Breakfast

[Mezzanine 2](#)

08:00–11:00

## Adipose Tissue and Immune Cells

[Van Horne A/B](#)

[Registered attendees](#) can view abstracts starting on 01/10/2019

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*

Coffee Break

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

Short Talk(s) Chosen from Abstracts

Following Session is for [Functional Neurocircuitry of Feeding and Feeding Disorders \(J8\)](#).

08:00–11:00

## Anorexia Nervosa

[Registered attendees](#) can view abstracts starting on 01/10/2019

[Van Horne C](#)

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

Walter Kaye, UC San Diego Health, USA  
*Are Eating Disorders Really Disorders of Eating?*

Coffee Break

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

Lori M. Zeltser, Columbia University, USA  
*Identifying Novel Therapeutic Targets For Anorexia Nervosa*

Short Talk(s) Chosen from Abstracts

11:00–17:00

## On Own for Lunch

11:00–13:00

## Poster Setup

[Mezzanine 2](#)

13:00–22:00

## Poster Viewing

[Mezzanine 2](#)

16:30–17:00

## Coffee Available

[Van Horne Foyer](#)

17:00–19:00

**Adipose Tissue Heterogeneity**[Van Horne A/B](#)[Registered attendees](#) can view abstracts starting on 01/10/2019

**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

Following Session is for [Functional Neurocircuitry of Feeding and Feeding Disorders \(J8\)](#).

17:00–19:00

**Neural Circuits Underlying Nausea, Emesis, and Aversive Responses**[Registered attendees](#) can view abstracts starting on 01/10/2019[Van Horne C](#)

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

**Samuel N. Breit**, St. Vincents Hospital, Australia  
*The Role of the GDF15 in Pathway in Control of Appetite and Energy Homeostasis*

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

Short Talk(s) Chosen from Abstracts

19:00–20:00

**Social Hour with Lite Bites**[Mezzanine 2](#)

No registration fees are used to fund alcohol served at this function.

19:30–22:00

**Poster Session 2**[Mezzanine 2](#)**WEDNESDAY, FEBRUARY 13**

07:00–08:00

**Breakfast**[Mezzanine 2](#)

08:00–11:00

**Environment and Obesity**[Van Horne A/B](#)[Registered attendees](#) can view abstracts starting on 01/10/2019

**J. Andrew Pospisilik**, Van Andel Institute, USA  
*Epigenetic and Obesity*

**Nathalie Delzenne**, Université Catholique de Louvain, Belgium  
*Dealing with the Gut Microbiota in Obesity*

Coffee Break

**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

Following Session is for [Functional Neurocircuitry of Feeding and Feeding Disorders \(J8\)](#).

08:00–11:00

**Telencephalic Control of Feeding Behavior**[Registered attendees](#) can view abstracts starting on 01/10/2019[Van Horne C](#)

**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 behavior*

#### Coffee Break

**Mark L. Andermann**, Beth Israel Deaconess Medical Center, USA  
*State-Specific Gating of Motivationally Salient Cues by Midbrain Dopaminergic Inputs to Basal Amygdala*

**Ivan E. de Araujo**, Icahn School of Medicine at Mount Sinai, USA  
*Vagal Control of Brain Reward Systems*

#### Short Talk(s) Chosen from Abstracts

|             |                                                                         |                                 |
|-------------|-------------------------------------------------------------------------|---------------------------------|
| 11:00–17:00 | <b>On Own for Lunch</b>                                                 |                                 |
| 11:00–13:00 | <b>Poster Setup</b>                                                     | <a href="#">Mezzanine 2</a>     |
| 13:00–22:00 | <b>Poster Viewing</b>                                                   | <a href="#">Mezzanine 2</a>     |
| 14:30–16:30 | <b>Workshop 2: Brown Adipocyte Glucose Metabolism: A Heated Subject</b> |                                 |
| 16:30–17:00 | <b>Coffee Available</b>                                                 | <a href="#">Van Horne Foyer</a> |

Following Session is for [Functional Neurocircuitry of Feeding and Feeding Disorders \(J8\)](#).

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                               |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| 17:00–19:00 | <b>Feeding Across the Lifespan</b><br><a href="#">Registered attendees</a> can view abstracts starting on 01/10/2019<br><br><b>Sebastien G. Bouret</b> , University of Southern California, USA<br><i>Regulatory Programs that Direct Development of Hypothalamic Circuits Regulating Food Intake</i><br><br><b>Kelly L. Klump</b> , Michigan State University, USA<br><i>Developmental Differences in Neurobiological Risk Factors for Binge Eating across Adolescence: Evidence from Animal and Human Models</i><br><br><b>Susan Carnell</b> , Johns Hopkins University, USA<br><i>Childhood Eating Behaviors</i><br><br><b>Short Talk(s) Chosen from Abstracts</b> | <a href="#">Van Horne C</a>   |
| 17:00–19:00 | <b>How Can We Translate Novel Discoveries into Obesity Treatment?</b><br><a href="#">Registered attendees</a> can view abstracts starting on 01/10/2019<br><br><b>Kevin L. Grove</b> , Novo Nordisk, USA<br><i>Anti-Obesity Drug Development: The Potential and the Challenges</i><br><br><b>Barbara B. Kahn</b> , Beth Israel Deaconess Medical Center, Harvard Medical School, USA<br><i>Adipose Tissue Derived Lipokines</i><br><br><b>Max Nieuwdorp</b> , Academic Medical Center, University of Amsterdam, Netherlands<br><i>The Gut Microbiome - Tool or Target for Obesity Treatment?</i><br><br><b>Short Talk(s) Chosen from Abstracts</b>                    | <a href="#">Van Horne A/B</a> |
| 19:00–20:00 | <b>Social Hour with Lite Bites</b><br>No registration fees are used to fund alcohol served at this function.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <a href="#">Mezzanine 2</a>   |
| 19:30–22:00 | <b>Poster Session 3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <a href="#">Mezzanine 2</a>   |

#### THURSDAY, FEBRUARY 14

|             |                                                                                                                   |                                    |
|-------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 07:00–08:00 | <b>Breakfast</b>                                                                                                  | <a href="#">Mezzanine 2</a>        |
| 08:00–11:00 | <b>Disease Cachexia (Joint)</b><br><a href="#">Registered attendees</a> can view abstracts starting on 01/10/2019 | <a href="#">Van Horne Ballroom</a> |

**Stefan D. Anker**, Universitätsmedizin Berlin, Germany  
*Cardiac Cachexia*

**Bruce M. Spiegelman**, Harvard Medical School, USA  
*Cachexia and Brown Fat*

#### Coffee Break

**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

11:00–17:00

#### On Own for Lunch

14:30–16:30

#### Clinical Obesity Management - Round Table Discussion

[Van Horne A/B](#)

**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

Following Session is for [Functional Neurocircuitry of Feeding and Feeding Disorders \(J8\)](#).

14:30–16:30

#### Workshop 2: Late Breaking Topics from Abstracts

#### Short Talks Chosen from Abstracts

[Van Horne C](#)

16:30–17:00

#### Coffee Available

[Van Horne Foyer](#)

17:00–18:45

#### Adipose Tissue Microenvironment

[Van Horne A/B](#)

[Registered attendees](#) can view abstracts starting on 01/10/2019

**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

Following Session is for [Functional Neurocircuitry of Feeding and Feeding Disorders \(J8\)](#).

17:00–18:45

#### Drug Discovery for Eating Disorders

[Registered attendees](#) can view abstracts starting on 01/10/2019

**Peter Kuehnen**, Charité - Universitätsmedizin Berlin, Germany  
*Treatment of Monogenic Eating Disorders*

**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

[Van Horne C](#)

18:45–19:00

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

[Van Horne A/B](#)

[Registered attendees](#) can view abstracts starting on 01/10/2019

Following Session is for [Functional Neurocircuitry of Feeding and Feeding Disorders \(J8\)](#).

18:45–19:00

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

[Registered attendees](#) can view abstracts starting on 01/10/2019

[Van Horne C](#)

19:00–20:00

**Social Hour with Lite Bites**

No registration fees are used to fund alcohol served at this function.

[Mezzanine 2](#)

20:00–23:00

**Entertainment**

Entertainment is not subsidized by conference registration fees nor any U.S. federal government grants. Funding for this expense is provided by other revenue sources.

[Mezzanine 2](#)

**FRIDAY, FEBRUARY 15**

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**Departure**

\*Session Chair †Invited, not yet responded.

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