



**13<sup>TH</sup> SWISS WINTER CONFERENCE**  
*on*  
**INGESTIVE BEHAVIOR**

St. Moritz

Switzerland

**11 February – 15 February 2023**

## **ACKNOWLEDGEMENTS**

*The organizers gratefully acknowledge:*

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## **PROGRAM**

***13<sup>th</sup> Swiss Winter Conference on Ingestive Behavior***

**11 February – 15 February 2023**

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### **Organizers**

*Thomas A Lutz*  
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*Barry Levin*  
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Registration and Apéro on Saturday are in the Lobbybar

Scientific sessions are in the Hannes-Reimann-Saal

Dinners are in various Hotel's restaurants, as described below

**SCHEDULE**  
**15min talk/15min discussion**

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**SATURDAY 11.02.23**

- 15.30**      **Registration**
- 15.50**      **Welcome & Introduction**  
Thomas Lutz
- 16.10 – 18.30** **Session #1, Neurons, glia and other brain topics**  
Chair: Levin  
Simerly, Heisler, Coester, Langlet, Navarro i Batista
- 18.30**      **Registration and Apéro** in the Lobbybar
- 19.15**      **Dinner** in the Stüva Restaurant

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**SUNDAY 12.02.23**

- 08.00**      **Welcome & Introduction**  
Thomas Lutz
- 08.10 – 11.00** **Session #2, Ingestion**  
Chair: Olszewski  
Betley, Serra, Flad, Noble, Smith
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- 17.00 – 19.30** **Session #3, Obesity treatments**  
Chair: Samson  
Kotz, Heilbronn, Romano, Teyssiere, Bordier
- 20.00**      **4-Course Dinner** in the Restaurant GourmIndia
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**MONDAY 13.02.23**

- 08.00 – 11.00** **Session #4, Metabolism, pregnancy and others**  
Chair: Kotz  
Ravussin, E., Ravussin, Y., van Dijk, Boyle, Widmer
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**17.00 – 19.30 Session #5, Bariatric surgery and other obesity treatments**

Chair: Lutz

Al-Alsheikh, Rochford, Smolenskii, Alceste, Boccia

**20.00**

**Dinner** in the Stüva

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**Tuesday 14.02.23**

**08.00 – 11.00 Session #6, Gut-brain and endocrine controls**

Chair: Ravussin, E.

Mansuy-Aubert, McDougle, Erlanson-Albertsson, Kolar, Pajot

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**17.00 – 19.30 Session #7, Peptides, hormones and amylin**

Chair: Langhans

Samson, Le Foll, Mazzini, Yosten, Olszewski

**20.00**

**Dinner**, in the Restaurant Corvatsch

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**Wednesday 15.02.23**

**11.00**

**Check out and departure**

*Farewell !*

*Auf Wiedersehen !*

*Uf Wiederluege !*

*Sin seveser !*

*Arrivederci !*

*Au Revoir !*

## **Effects of Bariatric Surgery and Dietary Interventions for Obesity on Brain Neurotransmitter Systems and Metabolism: A Systematic Review of Positron Emission Tomography (PET) and Single-Photon Emission Computed Tomography (SPECT) Studies**

**Alhanouf Al-Alsheikh, Alexander Miras, Tony Goldstone**

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## **Four bottle preference test and drinking microstructure in patients with obesity before and over a 12-month period after RYGB**

**Daniela Alceste<sup>1</sup>, Michele Serra<sup>1</sup>, Daniel Gero<sup>1</sup>, Bálint File<sup>2</sup>, Andreas Thalheimer<sup>1</sup>, Jeannette Widmer<sup>1</sup>, Robert E. Steinert<sup>1</sup>, Carel le Roux<sup>3</sup>, Alan C. Spector<sup>4</sup>, Marco Bueter<sup>1</sup>.**

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## **To feed or not: hypothalamic circuits that overcome food cost**

**J. Nicholas Betley**

University of Pennsylvania

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**Long-term exercise training causes changes in Food Preference in Male Sprague Dawley Rats**

**Lavinia Boccia, J. Nicholas Betley**

Institute of Biology, University of Pennsylvania, Philadelphia (USA)

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**Effects of a chronic intake of the natural sweeteners erythritol and xylitol on vascular function and glucose tolerance in patients with obesity**

**Valentine Bordier<sup>1,2</sup>, Fabienne Teyssiere<sup>1,2</sup>, Jürgen Drewe<sup>3</sup>, Arno Schmidt-Trucksäss<sup>4</sup>, Christoph Beglinger<sup>2</sup>, Bettina K. Wölnerhanssen<sup>1,2</sup>, Anne Christin Meyer-Gerspach<sup>1,2</sup>**

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**What is the impact of current breeding practices on the health and wellbeing of the breeding mouse dam?**

**Christina N. Boyle**

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## **Neuronal projection mapping with single-cell resolution guided by gene expression data**

**Bernd Coester, Tune H. Pers**

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## **Reduced pancreatic endocrine tissue in weaning rats fed powdered milk diets rich in Maillard reactants**

**C Erlanson-Albertsson<sup>1</sup>, J Dereke<sup>1</sup>, E Ekblad<sup>1</sup>, B Weström<sup>2</sup>, M Landin-Olsson<sup>3</sup> and M Hillman<sup>1</sup>**

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## **The Reward Responses of Oral Erythritol**

**Emilie Flad<sup>1,2</sup>, Fabienne Teyssiere<sup>1,2</sup>, Aleksandra Budzinska<sup>3</sup>, Nathalie Weltens<sup>3</sup>, Lukas Van Oudenhove<sup>3</sup>, Christoph Beglinger<sup>1,2</sup>, Bettina K. Wölnerhanssen<sup>1,2</sup>, Anne Christin Meyer-Gerspach<sup>1,2</sup>**

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## **A randomized controlled trial to compare intermittent fasting plus early time-restricted eating versus calorie restriction and standard care in adults at increased risk of type 2 diabetes.**

Xiao Tong Teong, Kai Liu, Andrew Vincent, Gary Wittert, Bo Liu, Mark Larance, Amy Hutchison, **Leonie Heilbronn**

Adelaide Medical School, The University of Adelaide, Adelaide, South Australia, Australia.  
Lifelong Health Theme, South Australian Health and Medical Research Institute, Adelaide, South Australia, Australia

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## **A brainstem->hypothalamic GABAergic neurocircuit drives feeding**

Pablo B. Martinez de Morentin, Antonio Gonzalez, Yuliia Martynova, Sergiy Sylantyev, **Lora Heisler**

The Rowett Institute, University of Aberdeen, UK

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## **Spatial transcriptomics of the human islet**

**Grant Kolar** and Gina Yosten

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## **A Small Molecule Orexin Agonist Enhances Energy Expenditure and Reduces Adiposity**

**Catherine M. Kotz**<sup>1,2</sup>, Brianna L. Pomonis<sup>1,2</sup>, Izabelle D. Benfato<sup>3</sup>, Laurie L. Shekels<sup>2</sup>, Vijay Mavanji<sup>2</sup>, and Yanan Zhang<sup>4</sup>

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**Single-cell gene expression dynamics of the mouse hypothalamus induced by an energy imbalance: a complex cell-to-cell interaction**

**Fanny Langlet**

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**Cagrilintide body weight lowering effect relies on RAMPs in male mice**

Andrea Leuthard<sup>1</sup>, Patricia Kulka<sup>1</sup>, Alexandra Oliveira Carvas<sup>1</sup>, Sofia Lundh<sup>2</sup>, Kirsten Raun<sup>2</sup>, Thomas A. Lutz<sup>1</sup>, **Christelle Le Foll<sup>1</sup>**

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**Role of the vagal and spinal free fatty acid receptor 3 (FFAR3) in energy balance and glucose homeostasis of lean or diet-induced obese mice**

Tyler M Cook<sup>1</sup>, Chaitanya K Gavini<sup>1</sup>, Jason Jesse<sup>1</sup>, Gregory Aubert<sup>2</sup>, Emily Gornick<sup>1</sup>, Raiza Bonomo<sup>1</sup>, Laurent Gautron<sup>3</sup>, Brian T Layden<sup>4</sup>, **Virginie Mansuy-Aubert<sup>5,6</sup>**

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## **Unveiling amylin and salmon calcitonin affected brain areas by resting state fMRI**

**Giulia Mazzini<sup>1</sup>, Irmak Gezginer<sup>2,3</sup>, Christelle Le Foll<sup>1</sup>, Diana Kindler<sup>3</sup>, Daniel Razansky<sup>2,3</sup>, Thomas Lutz<sup>1</sup>**

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## **Fats and sugars recruit distinct gut-brain circuits to control food intake and reward**

**Molly McDougle<sup>1</sup>, Alan Araujo<sup>2</sup>, Mingxin Yang<sup>2</sup>, Arashdeep Singh<sup>2</sup>, Amber Alhadef<sup>2,3</sup>, Will de Lartigue<sup>2,3</sup>**

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## **A rodent model of adolescent food insecurity: impact on eating behaviors and susceptibility to diet induced obesity**

Mai Spaulding, **Emily Noble**

Department of Nutritional Sciences, University of Georgia, Athens GA

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## **Astrocyte lipid metabolism: Investigating its influence on the control of energy balance**

**Keila Navarro i Batista, Christelle Le Foll**  
Institute of Veterinary Physiology, University of Zurich, Switzerland

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### **Intranasal oxytocin as a suppressant of feeding for palatability in rats**

Donisha Liyanagamage, Laura McColl, Lisa Glasgow, Allen S. Levine and **Pawel K. Olszewski**

Faculty of Science and Engineering, University of Waikato, Hamilton, New Zealand and Departments of Food Science and Nutrition and Integrative Biology and Physiology, University of Minnesota, Minneapolis, MN, US

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### **Role of ephrinb3 in pomc neurons in the control of energy and glucose homeostasis**

**Clémentine Pajot**, Gwenaël Labouèbe, Yann Emmenegger, Angélique Vaucher, Bernard Thorens, Sophie Croizier

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### **ASSESSMENT OF INSULIN SENSITIVITY BY CONTINUOUS GLUCOSE MONITORING AND 24-H URINARY C-PEPTIDE EXCRETION IN NON-DIABETIC INDIVIDUALS**

Ravussin E, Sanchez-Delgado G

Pennington Biomedical Research Center, Baton Rouge, LA USA

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### **Signals of the overfed state- adipose tissue analysis**

Isabelle Scerri<sup>1</sup>, Sujoy Ghosh<sup>2</sup>, Michael Stumpe<sup>1</sup>, **Yann Ravussin<sup>1</sup>**

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**Examining novel therapies for the treatment of severe metabolic disease, diabetes and hyperphagia in lipodystrophy.**

Ahlima Roumane, Nadine Sommer, Lora K. Heisler, George D. Mcilroy and **Justin J. Rochford**

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**“To brain or not to brain”: evaluating the possible direct effects of the satiety factor oleoylethanolamide in the central nervous system**

**Adele Romano<sup>a</sup>, Marzia Friuli<sup>a</sup>, Barbara Eramo<sup>a</sup>, Cristina Anna Gallelli<sup>a</sup>, Justyna Barbara Koczwara<sup>a</sup>, Elnaz Karimian Azari<sup>b,c</sup>, Adrien Paquot<sup>d</sup>, Myrtha Arnold<sup>b</sup>, Wolfgang Langhans<sup>b</sup>, Giulio G. Muccioli<sup>d</sup>, Thomas Alexander Lutz<sup>e</sup> and Silvana Gaetani<sup>a</sup>**

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**Sexually Dimorphic Actions of the Anorexigenic Peptide Nesfatin-1**

**Rick Samson, Abigayle Schnell, Alicia Pate, and Gina Yosten**

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### **Assessment of microstructure of ingestive behaviour as a predictor of achieved body weight loss one year after Roux-en-Y Gastric Bypass**

**Michele Serra**, Daniela Alceste, Daniel Gero, Jeannette Widmer, Andreas Thalheimer, Robert E. Steinert, Marco Bueter

Department of Surgery, University Hospital Zürich, Zürich, Switzerland

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### **Developmental Programming of Neuroendocrine Integration**

**Richard Simerly**, Jessica Biddinger, Dollada Srisai, Michelle Bedenbaugh

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### **Characterization of Eating-Related Anxiety in Anorexia Nervosa**

**Kimberly R. Smith<sup>1</sup>**, Sarah Guo<sup>1</sup>, Allisyn Pletch<sup>1</sup>, Joseph McGuire<sup>1</sup>, Jeffrey Brunstrom<sup>2</sup>, Timothy H. Moran<sup>1</sup>, Angela Guarda<sup>1</sup>

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### **Sex-specific metabolic and behavioral effects of ketogenic and non-ketogenic high-fat diets in mice**

**Ilia Smolenskii**, Kilian Zajac-Bakri, Dragos Inta

University of Fribourg; University of Basel, Switzerland

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**Metabolic effects and safety aspects of acute D-allulose and erythritol in healthy subjects**

**Fabienne Teysseire**<sup>1,2</sup>, Valentine Bordier<sup>1,2</sup>, Aleksandra Budzinska<sup>3</sup>, Nathalie Weltens<sup>3</sup>,  
Christoph Beglinger<sup>1,2</sup>, Lukas Van Oudenhove<sup>3</sup>, Bettina K. Wölnerhanssen<sup>1,2</sup>, Anne Christin Meyer-Gerspach<sup>1,2</sup>

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**Comparative impact of social housing condition, ambient temperature and diet on energy balance and body weight regulation in male C57BL/6J mice**

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**Novel appetite stimulants to treat anorexia nervosa and anorexia-cachexia**

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**Utilizing the Magel2-deficient rat model to investigate Prader Willi Syndrome-associated hyperphagia**

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