



14TH SWISS WINTER CONFERENCE

on

INGESTIVE BEHAVIOR

St. Moritz

Switzerland

18 – 22 February 2024

ACKNOWLEDGEMENTS

The organizers gratefully acknowledge:

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PROGRAM

14th Swiss Winter Conference on Ingestive Behavior

18 – 22 February 2024

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Organizers

*Thomas A Lutz
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Venue

**Hotel Laudinella
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Notes

Registration and Apéro are on Sunday 18 February in the Lobbybar.

Please note that the first scientific session is also Sunday, before dinner.

Scientific sessions are in Palü/Morteratsch rooms.

Dinners are in different Hotel restaurants, as described below.

SCHEDULE

**Please note: Each speaker has a 25 min slot,
12.5 min for the talk and 12.5 min for the discussion.**

We expect Swiss precision !

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SUNDAY 18 FEB 2024

- 15.00** **Registration** in the Lobbybar
- 15.30** **Welcome & Introduction** in the Hannes-Reimann-Saal
Thomas Lutz
- 15.45** **Session #1, Pre-clinical**
Chair: Levin
Talks: Bogaerts, Elfers, Kotz, Hankir, van Dijk, Tesmer
- 18.30** **Registration and Apéro** in the Lobbybar
- 19.30** **Dinner** in the **Stüva Restaurant**
Buffet with Specialties of Graubunden

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MONDAY 19 FEB 2024

- 08.00 – 11:00** **Session #2, Pre-Clinical, Clinical**
Chair: Raben
Talks: Borner, Y Ravussin, Steinert, E Ravussin, Olszewski,
Jansson
- 17.00 – 19.45** **Session #3, Clinical, Behavioral**
Chair: E. Ravussin
Talks: Altstädt, Flad, Jucker, Price, Raben, Serra
- 20.00** **4-Course Dinner** in the **Restaurant GourmIndia**
*Cured Salmon with Crème Fraîche, Waldorf Salad,
Roast Beef, Asparagus with Pepper-Hollandaise,
Apple Florentine Tart with Pistacchio Icecream*

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TUESDAY 20 FEB 2024

08.00 – 11.00 Session #4, CNS

Chair: Berthoud

Talks: Bouchat, Buettner, Coester, Kanoski, Zlagkovic, Kong,
Le Foll

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17.00 – 19.45 Session #5, GI

Chair: Moran

Talks: Anjome-Shoae, Berthoud, Dagher, Erlanson-Albertsson,
Feinle-Bisset, Kaelberer

20.00

Dinner in the **Stüva Restaurant**

Buffet with Italian Specialties

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WEDNESDAY 21 FEB 2024

08.00 – 11:00 Session #6, Gemischtes

Chair: Feinle-Bisset

Talks: Moran, Boyle, Lesham, Renquist, Samson, Romano

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17.00 – 19.45 Session #7, Motivation

Chair: Le Foll

Talks: Fulton, Lommi, Noble, Rupprecht, Schier, Vainik

20.00

Dinner in the **Restaurant Corvatsch**

Raclette

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THURSDAY 22 FEB 2024

11.00 Check out and departure

Farewell !

Auf Wiedersehen !

Uf Wiederluege !

Sin seveser !

Arrivederci !

Au Revoir !

Assessment of metabolic responses to daily erythritol versus sucrose intake over 5 weeks in healthy adolescents

Anita Altstädt^{1,2}, Valentine Bordier^{1,2}, Emilie Flad^{1,2}, Jürgen Drewe³, Christoph Beglinger^{1,2}, Anne Christin Meyer-Gerspach^{1,2}, Bettina K. Wölnerhanssen^{1,2}

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Intraduodenal administration of calcium enhances the suppression of energy intake and stimulation of gastrointestinal hormones by L-tryptophan in health and obesity

Javad Anjom-Shoae¹, Penelope Fitzgerald¹, Michael Horowitz^{1,2}, Zinat Mohammadpour³, Gerrit van Hall^{4,5}, Jens Holst⁴, Jens Rehfeld⁵, Simon Veedfald⁴, Christine Feinle-Bisset¹

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Hepatic interoception: How does the liver communicate with the brain and other organs?

Hans-Rudolf Berthoud¹, Heike Münzberg¹, Christopher D Morrison¹, Winfried L. Neuhuber²

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Amylin receptor expression profile in AgRP neurons: Implication for glucagon regulation

Guillaume Bogaerts, Christina N. Boyle and Thomas A. Lutz

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GIPR Agonism Attenuates GLP-1R Agonist Induced Malaise in Preclinical Models

Tito Borner^{1,2,3}, Allison M. Pataro¹, Xing Gao¹, Sarah A Doebley¹, C. Daniel Furst¹, Julia Halas¹, Allaha Mohiby¹, Caroline E. Geisler², Samantha M. Fortin², Richard C. Crist¹, Benjamin C. Reiner¹, Minrong Ai⁴, Ricardo J. Samms⁴, Matthew R. Hayes^{1,2}, Bart C. De Jonghe^{1,2},

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High energy diet effects on hypothalamic: Inflammation, astrocytes and obesity.

Anais Bouchat¹, Christelle Le Foll¹

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One-year update: What is the impact of breeding practices on the health and wellbeing of the breeding mouse dam?

Christina N. Boyle, Andrea S. Leuthardt, Camille Calmbach, Kaya Walo, Gaia Serra, Madeleine Gries

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New insights into the role of the sympathetic nervous system in regulating metabolism and inflammation

Christoph Buettner and Kenichi Sakamoto

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Tracing of neuronal pathways originating in the hypothalamus and brainstem with single-cell resolution allows largely unbiased hypothesis-generating with a reusable, distributable resource

Bernd Coester¹, Dylan M. Rausch¹, Oliver Christensen¹, Charlotte H. Andersen¹, Tune H. Pers¹

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Gut-brain signaling pathways as conduits for neurodegenerative diseases

Alain Dagher, Filip Morys, Yashar Zeighami, Yingqiu Zheng, Bratislav Misic, Andréanne Michaud, Shady Rahayel

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Development of a Long-Acting Triple Agonist of GLP-1, Neuropeptide Y1/Y2 Receptors with Anorexigenic and Glucoregulatory Effects.

Clinton T. Elfers^{1,3}, Emily F. Ashlaw^{2,3}, Ginger Mullins¹, Isabella Chavez Miranda², Robert P. Doyle^{2,4}, Christian L. Roth^{1,4}

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The Release of Glucagon-Like Peptide-1 During a Meal

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Dose-related effects of intraduodenal administration of the bitter substance, quinine, on gastric emptying of, and plasma glucose and glucoregulatory hormones in response to, a mixed-nutrient drink, and on energy intake, in men with type 2 diabetes

Christine Feinle-Bisset¹, Vida Bitarafan¹, Javad Anjom-Shoae¹, Peyman Rezaie^{1,2}, Kylie Lange¹, Michael Horowitz^{1,3}

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Effect of Oral Administration of Xylitol on Subsequent Energy Intake during an *ad libitum* Test Meal

Emilie Flad^{1,2}, Anita Altstädt^{1,2}, Christoph Beglinger^{1,2}, Lukas Van Oudenhove³, Bettina K. Wölnerhanssen^{1,2}, Anne Christin Meyer-Gerspach^{1,2}

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Modulation of select mesolimbic dopamine neurons and food-directed behavior by omega-3 fatty acids and GPR120

Shingo Nakajima^{1,3}, David Lau^{1,2}, Patrick Gagnon^{1,3}, Marie Hoffner¹, Megan Lozzi¹, Romane Manceau^{1,2}, Khalil Bouyakdan¹, Vincent Poirout^{1,4}, Thierry Alquier^{1,4}, **Stephanie Fulton**^{1,3}

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Mapping the brain feeding circuitry activated by cagrilintide, semaglutide and CagriSema in mice

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The gravitostat hypothesis for regulation of prepubertal growth

John-Olov Jansson, Adria Dalmau Gasull, Erik Schéle, Suzanne L Dickson, Vilborg Palsdottir, Anders Palmquist, Ferran Font Gironès, Jakob Bellman, Fredrik Anesten, Daniel Hägg, Claes Ohlsson

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Effect of Roux-en-Y Gastric Bypass on Microstructural Parameters of Ingestive Behavior in Adult Females with Obesity during a Four-Bottle Preference Test.

Nicole Jucker¹, Daniela Alceste¹, Michele Serra¹, Harro A. J. Meijer, Andreas Thalheimer¹, Robert E. Steinert¹, Alan C. Spector, Daniel Gero¹, Marco Bueter¹

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From brain to gut: efferent connection to neuropod cells

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Memories from around the table: hippocampal engrams for meal-related memory

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Genetic and Optic Dissection of Neuron-Metabolism

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Reducing the post weight loss energy gap with small molecular weight orexin agonists

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Lipid Metabolism in Astrocytes: Its Impact on Appetite and Energy Regulation

Keila Navarro i Batista, Eve Weber, **Christelle Le Foll**

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Studying salt appetite in the Arab community in Israel

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**The impact of high-energy diet and polygenic obesity on the dopamine response to
cues predicting food reward in female rats**

Greta Lommi, Lorenz Klein, Thomas A. Lutz, Christina N. Boyle

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Activity-Based Anorexia: Physiological and neural consequences and behavioral predictors of susceptibility or resistance

Tim Moran

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Melanin Concentrating Hormone and ingestive behavior: what does it do?

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Aberrant food consumption in the ASD CNTNAP2^{-/-} mouse

Savannah Harvey¹, Allen S. Levine², Anica Klockars¹, **Pawel K. Olszewski^{1,2}**

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Covertly measuring eating behaviour over 24 hours in a controlled residential setting

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Sweeteners may benefit long-term weight loss maintenance: The SWEET study.

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Nutrition for Precision Health Powered by All of US: An Update on Background, Protocol and Progress

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GDF15 in Feeding Behavior: Insights from an 8-Week Human Overfeeding Study

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The Role of Liver Lipids in Regulating the Diurnal Pattern of Food Intake

Caroline Geisler, Anisha Venigalla, Angela Castille-Krasuski, Susma Ghimire, **Benjamin Renquist**

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Oleylethanolamide differentially regulates skeletal and cardiac muscle metabolism in a rat model of early-onset obesity

Adele Romano¹, Barbara Eramo¹, Marzia Friuli¹, Nisha Zahid¹, Francesco Vari², Eleonora Stanca², Marina Damato², Stefano Tacconi³, Luisa Siculella², Christian Sepe¹, Daniele Vergara², Anna Maria Giudetti², Silvana Gaetani¹

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A gut cell for food reward

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Doubts Based on Flawed Science Deserve Debunking (GPR160 is a Receptor for CARTp)

Rick Samson, Joshua Stafford and Gina Yosten

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Oral sensory-metabolic interactions subserving sugar intake

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Validity Assessment of the SNAQ App for Estimation of Daily Energy Intake in Adult Females with Normal Weight and Obesity.

Michele Serra¹, Daniela Alceste¹, Florian Hauser, Nicole Jucker, Paul J. M. Hulshof, Harro A. J. Meijer, Andreas Thalheimer¹, Robert E. Steinert¹, Philipp A. Gerber, Alan C. Spector, Daniel Gero¹, Marco Bueter¹

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Effect of dietary fibre on appetite in normal weight subject and RYGB patients.

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Orexin: A Neurophysiological Basis for Temptation-Resistant Voluntary Exercise

Alexander L. Tesmer, Xinyang Li, Cyra Schmandt, Rafael Polania, Daria Peleg-Raibstein, Denis Burdakov

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Genome-wide Association Study of Uncontrolled Eating

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Interactions between dietary n-6/n-3 status and DHA supplementation in mother and offspring DHA tissue levels during gestation and lactation; a study in mice.

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Norepinephrine neurons in NTS are important for Gravitostat signaling

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