



FIFTH
SWISS WINTER CONFERENCE
on
INGESTIVE BEHAVIOR

St Moritz

Switzerland

March 1 - March 6, 2014

5th Swiss Winter Conference on Ingestive Behavior

1 – 6 March 2014

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Organizers

Thomas A Lutz
tomlutz@vetphys.uzh.ch

Nori Geary
ndg47@hotmail.com

Wolfgang Langhans
wolfgang-langhans@ethz.ch

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The organizers gratefully acknowledge the support of the *American Journal of Physiology (Regulatory, Integrative and Comparative Physiology)*,
Willis K. Samson, Editor-in-Chief,
for sponsoring Young Investigator Travel Awards
for the 2014 Meeting.

A certificate and cash award were given by the Award Committee of the Conference to two young investigators whose presentation best exemplifies the integrative aspects of ingestive behaviors and associated diseases. All presenting young investigators, defined as current graduate students and graduates within five years of completion of their doctoral programs, were eligible. The award winners were also invited to submit an original article or suitable review to the journal within six months of the Conference.

The 2014 *American Journal of Physiology (Regulatory, Integrative and Comparative Physiology)*

Awards were given to:

Melania Osto, DVM, PhD
Universtiy of Zurich, Switzerland

&

Gustav Gustav Colldén, PhD
Université of Lille 2, France

Congratulations !

PROGRAM

5th Swiss Winter Conference on Ingestive Behavior

Hotel Laudinella

St. Moritz, Switzerland

1 - 6 March 2014

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**Hotel Laudinella
Via Tegiatscha 17
CH-7500 St. Moritz
Switzerland**

**T +41 81 836 00 00
F +41 81 836 00 01
info@laudinella.ch**

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Registration and the reception on Saturday, and coffee breaks are in the Hotel Lobby, near the Aula.

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

Scientific sessions are in the Hannes Riemann Saal.

Schedule

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SATURDAY 1.3.

- 1600** **Registration** in the Aula Lobby
- 1700** **Greeting Reception** in the Aula Lobby
- 1900** **Dinner** in the Stüva Restaurant (Bündner Buffet)

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SUNDAY 2.3.

- 0800** **Welcome & Introduction**
- Nori Geary
Thomas Lutz
- 0830 - 1100** **Session #1, Peripheral I**
- Tim Moran
Megan Dailey
Shin Lee
Thomas Bächler
- 1600** **Coffee**
- 1700 -1930** **Session #2, Peripheral II (Amylin)**
- Thomas Lutz
Claudia Liberini
Melania Osto
Barry Levin
- 2000** **Dinner** in the Brasserie Restaurant (4-course

menu)

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MONDAY 3.3.

0800 - 1100 Session #3, Central

John-Olov Jansson
Alexander Tups
Björn Meister
Gustav Colldén
Willis Samson

1600 Coffee

1700 - 1930 Session #4, Food Reward I

Roger Adan
Suzanne Dickson
Charlotte Erlanson-Albertsson
Yada Treesukosol
John Menzies

2000 Dinner in the Pizzeria Restaurant (Cheese
Fondue)

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TUESDAY 4.3.

0800 - 1100 Session #5a, Food Reward II

Ilse Schrieks
Tobias Hoch
Wolfgang Meyerhof

Session #5b, Interactions among systems

Eve Van Cauter
Catherine Kotz
Gabi Wagner

Free Afternoon

2000 Dinner in the Stüva Restaurant (Bündner Buffet)

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WEDNESDAY 5.3.

0800 - 1100 Session #6a, Cancer Anorexia
Tito Borner
Thomas Riediger

Session #6b, RYGB I
Kathrin Abegg
Hans-Rudi Berthoud

1600 Coffee

1700 - 1930 Session #7, RYGB II

Christina Boyle
Lori Asarian
Nori Geary
Charlie Billington

2000 Dinner in the Brasserie Restaurant (4-course menu)

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THURSDAY 6.3. Check out

Farewell !

Uf Wiederluege !

Sin seveser !

Arrivederci

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TALK TITLES

Listed alphabetically by **presenting author in bold**

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Alterations in energy expenditure (EE) in Roux-en-Y gastric bypass (RYGB) rats persist at thermoneutrality

Kathrin Abegg, Caroline Corteville, Marco Bueter, Thomas A. Lutz
kathrin.abegg@uzh.ch

How do dopamine neurons get informed about energy balance?

Roger Adan, Ruud van Zessen, Geoffrey van der Plasse
r.a.h.adan@umcutrecht.nl

Roux-en-Y gastric bypass (RYGB) surgery increases the eating-inhibitory potency of intrajejunal (IJ) infusions of Intralipid (IL) in female rats

Thomas Bächler, Marco Bueter, Thomas A. Lutz, **Lori Asarian**
lasarian@vetphys.uzh.ch

Interactive control of eating, body weight and endogenous-CCK satiation by estradiol and NTS leptin receptors in female rats.

Thomas Bächler, Thomas Lutz, Nori Geary, Ralph DiLeone, Lori Asarian
Thomas.Baechler@uzh.ch

Neural Mechanisms of Gastric Bypass

Hans-Rudolf Berthoud
berthohr@pbrc.edu

Surgery for Diabetes?: The Diabetes Surgery Study.

Charles J. Billington representing the Diabetes Surgery Study authors
billi005@umn.edu

The area postrema but not vagal afferents mediate cancer-induced anorexia and body weight loss in hepatoma tumor bearing rats

T. Borner, M. Arnold, J. Ruud, A. Blomqvist, W. Langhans, T. Lutz, T. Riediger
tito_borner@access.uzh.ch

Real-time blood glucose levels and food intake before and after Roux-en-Y gastric bypass surgery in rats

Christina N. Boyle, Caroline Corteville, Doug Compton, Edward Ulman,
Thomas A. Lutz
boyle@vetphys.uzh.ch

Neonatal Overnutrition Causes Alterations of the Ghrelin System both Peripherally and Centrally

Gustav Coldén, Sebastien G Bouret
gustavc@kth.se

Altered intestinal morphology may account for differences in nutrient sensing

Megan Dailey, Edward Retzbach
mdailey5@illinois.edu

Influence of ghrelin on the central serotonergic signaling system in mice

Suzanne L Dickson, Caroline Hansson, Mayte Alvarez-Crespo, Magdalena Taube, Karolina P Skibicka, Linnea Schmidt, Linda Karlsson-Lindahl, Emil Egecioglu, Hans Nissbrandt
Suzanne.Dickson@gu.se

Suppressed urge for sweet and release of GLP-1 in overweight women through consumption of green plant thylakoids

Charlotte Erlanson-Albertsson, Caroline Montelius, Daniel Erlandsson, Egzona Vitija, Emil Egecioglu, Krzysztof Podgórski
charlotte.erlanson-albertsson@med.lu.se

Delayed satiation, increased meal size and increased general activity in Roux-en-Y gastric bypass (RYGB) rats fed a non-nutritive food.

Thomas Bächler, Marco Bueter, Thomas A. Lutz, **Nori Geary**, Lori Asarian
ndg47@hotmail.com

Molecular determinants of the palatability of snack food and their effects on whole brain activity patterns

Tobias Hoch, Silke Kreitz, Andreas Hess, Monika Pischetsrieder
tobias.hoch@fau.de

The gut microbiota reduces leptin sensitivity and the expression of the obesity suppressing neuropeptides proglucagon (*Gcg*) and brain-derived neurotrophic factor (*Bdnf*) in the central nervous system.

John-Olov Jansson, Erik Schéle, Louise Grahnmemo, Fredrik Anesten, Anna Hallén, Fredrik Bäckhed
JOJ@medic.gu.se

High and low activity rats: elevated intrinsic physical activity drives resistance to diet-induced obesity.

Catherine M. Kotz, Claudio Perez-Leighton, Charles J. Billington
Kotzx004@umn.edu

Glucagon-like peptide-1 receptors in vagal afferent neurons are required for normal satiation, gastric emptying, and glucose homeostasis

Jean-Philippe Krieger, Myrtha Arnold, Pius Lossel, Klaus G. Pettersen, Wolfgang Langhans, **Shin J. Lee**
Shin-lee@ethz.ch

Mechanism of amylin as a leptin sensitizer

Barry E. Levin, Miranda Johnson, Thomas Lutz, Christina Boyle, Christelle Le Foll
levin@njms.rutgers.edu

CTR α , RAMP1 and RAMP3 are co-expressed in the same single amylin-activated neurons in the rat AP.

Claudia Liberini, Christina Neuner Boyle, Carlo Cifani, Bruce T. Hope, Thomas Lutz
claudia.liberini@uzh.ch

The role of the area postrema in the anorectic effects of amylin and salmon calcitonin—behavioral and neuronal phenotyping.

Fiona E. Braegger, Lori Asarian, Kirsten Dahl, **Thomas A. Lutz**, Christina N. Boyle
tomlutz@vetphys.uzh.ch

Delta-like 1 homologue (DLK1) is a hypothalamus-enriched protein that is present in distinct populations of hypothalamic neurons associated with regulation of feeding behavior

Björn Meister, David Persson-Augner, Yong-Woo Lee
bjorn.meister@ki.se

A rat model of snacking and body weight control: exploring the limits of compensatory decreases in food intake after reward consumption

John Menzies, Barbara Jachs, Catherine Hume, Gareth Leng
john.menzies@ed.ac.uk

The cells of mouse bitter taste

Wolfgang Meyerhof¹, Kristina LoBow, Sandra Hübner, Sabine Frenzel, Masataka Narukawa, Anja Voigt, Ulrich Boehm, Jonas Töle, Maik Behrens
meyerhof@dife.de

Effects of repeated daily exendin-4 treatment on food intake, body weight and homeostatic and reward system gene expression

Yan Yang, **Tim Moran**
tmoran@jhmi.edu

In vivo efficacy of human-derived anti-human islet amyloid polypeptide (hIAPP) antibodies in transgenic rodent models of type 2 diabetes.

Melania Osto, Fabrice Heitz, Alexandra Durrer, Tobias Welt, Fabian Wirth, Roger Nitsch, Thomas A. Lutz
mosto@vetphys.uzh.ch

The novel ghrelin agonist HM01 mimics the neuronal effects of ghrelin in the hypothalamic arcuate nucleus and attenuates anorexia in tumor-bearing rats

T. Borner, L. Loi, C. Pietra, S. Garcia Rubio, C. Giuliano, T. Lutz, **T. Riediger**
triedig@vetphys.uzh.ch

Novel Insight into the Actions of Angiotensin II

Willis Samson, Gina Yosten, Robert Speth, Kathryn Sandberg
samsonwk@slu.edu

Moderate alcohol consumption stimulates food intake and food reward of savory food.

Ilse Schrieks, Annette Stafleu, Henk Hendriks
ilse.schrieks@tno.nl

Orosensory stimulation as a function of high-energy diet does not necessarily generalize to increased intake of other palatable stimuli in rats

Yada Treesukosol, Timothy H. Moran
yadatree@jhmi.edu

Central inhibition of IKK β -NF- κ B signalling attenuates high-fat diet-induced obesity and glucose intolerance

Alexander Tups, Goutham K. Ganjam, Christiane E. Koch and Jonas Benzler
tups@staff.uni-marburg.de

Sleep disturbances and the risk of obesity and diabetes

Eve Van Cauter, Ph.D.
evcauter@medicine.bsd.uchicago.edu