



4th SWISS WINTER CONFERENCE on INGESTIVE BEHAVIOR

St Moritz, Switzerland, March 2 - 6, 2013

PROGRAM SCHEDULE & ABSTRACT TITLES



4th Swiss Winter Conference on Ingestive Behavior

Hotel Laudinella

St. Moritz, Switzerland

2 - 6 March 2013

- + - + - + - + - + - + - + - + - + -

We gratefully acknowledge generous donations from:

TSE Systems GmbH

Siemensstr. 21
61352 Bad Homburg
Germany

Tel: +49-(0)6172-789-0
Fax: +49-(0)6172-789-500

Info@TSE-Systems.com

Sophisticated Life Science Research Instrumentation



Novo Nordisk A/S

Novo Nordisk A/S
Novo Allé, 2880 Bagsvaerd
Denmark

Tel: +45 4444 8888
Fax: +45 4449 0555

www.novonordisk.com



PROGRAM SCHEDULE

4th Swiss Winter Conference on Ingestive Behavior

- + - + - + - + - + - + - + - + - + -

SATURDAY 2.3

- 1500** **Registration** in the Aula
- 1700** **Greeting Reception** in the Aula lobby
- 1830** **Dinner** in the Stüva Restaurant (Bündner Buffet)

- + - + - + - + - + - + - + - + - + -

SUNDAY 3.3

- 0800** **Welcome & Introduction**
- Nori Geary
Thomas Lutz
- 0830 - 1100** **Session #1, Bariatric Surgery I**
- Marco Bueter
Stephen Benoit
Nori Geary
Kathrin Abegg
- 1630** **Coffee**
- 1700 -1930** **Session #2, Bariatric Surgery II**
- Hans-Rudi Berthoud
Thomas Lutz
Sara DeGiorgi
Lori Asarian
- 2000** **Dinner** in the Brasserie Restaurant (4-course menu)

- + - + - + - + - + - + - + - + - + -

MONDAY 4.3.

0800 - 1100 Session #3a, Inflammation, Illness & Altitude

Deborah Clegg
Alexander Tups
Tito Borner
Thomas Riediger

1630 Coffee

1700 - 1930 Session #3b, Inflammation, Illness & Altitude

Biff Palmer

Session #4, Taste receptors

Wolfgang Meyerhof
Anders Lehmann

2000 Dinner in the Pizzeria Restaurant (Cheese Fondue)

- + - + - + - + - + - + - + - + - + -

TUESDAY 5.3

0800 - 1100 Session #5, Peripheral signals

Wolfgang Langhans
Ayman Sayegh
Anne Meyer-Gerspach
Keld Fosgerau

1630 Coffee

1700 - 1930 Session #6, Metabolic signals

Barry Levin
Christina Neuner Boyle
Fiona Braegger
Vanessa Campos
Fanny Theyatz

2000 Dinner in the Stüva Restaurant (Bündner Buffet)

- + - + - + - + - + - + - + - + - + -

WEDNESDAY 6.3.

0800 - 1100 Session #7, CNS

Catherine Kotz
Bjorn Meister
Shin Jae Lee
Charles Billington

End of Scientific Presentations

Free Afternoon

2000 Dinner in restaurant of your choice (Laudinella "Dine Around")

- + - + - + - + - + - + - + - + - + - + -

THURSDAY 7.3.

Check out

Farewell !

Uf Wiederluege !

Sin seveser !

- + - + - + - + - + - + - + - + - + - + -

ABSTRACT TITLES

Listed alphabetically by **presenting author in bold**

-+ -+ -+ -+ -+ -+ -+ -+ -+ -+ -

Scientific Participants Not Presenting

Caroline Corteville, MD
Institute of Veterinary Physiology
University of Zürich

Corteville_C@chirurgie.uni-wuerzburg.de

-+ -+ -+ -+ -+ -+ -+ -+ -+ -+ -

Kirsten Dahl, DVM, Ph D
Senior Project Manager
Type 2 Diabetes
Diabetes Pharmacology & Bioanalysis

Novo Nordisk A/S
Novo Nordisk Park
DK-2760 Måløv
Denmark

kdhl@novonordisk.com

-+ -+ -+ -+ -+ -+ -+ -+ -+ -+ -

Claudia Liberini
Institute of Veterinary Physiology
University of Zürich

claudia.liberini@uzh.ch

-+ -+ -+ -+ -+ -+ -+ -+ -+ -+ -

Holger Russig, PhD
Scientific Director
TSE Systems

Holger.Russig@TSE-Systems.com

Roux-en-Y gastric bypass surgery reduces bone mineral density and induces metabolic acidosis in rats

Kathrin Abegg¹, Nicole Minder^{2,3}, Carsten A. Wagner^{2,3}, Annette Liesegang⁴, Marc Schiesser⁵, Marco Bueter^{3,5}, Thomas A. Lutz^{1,3}

kathrin.abegg@uzh.ch

Effects of estradiol and RYGB on hindbrain c-Fos following intrajejunal nutrient infusion in ovariectomized rats

Lori Asarian^{1,2}, Marco Bueter^{2,3}, Kathrin Abegg¹, Thomas A. Lutz^{1,2}

lasarian@vetphys.uzh.ch

Use of Bariatric Outcomes Longitudinal Database (BOLD) to Study Variability in Patient Success after Bariatric Surgery

Stephen Benoit

BENOITS@UCMAIL.UC.EDU

Central GLP-1 but not Y-2 receptor signaling contributes to maintenance of reduced body weight after RYGB in the rat

HR Berthoud¹, Z Hao², MB Mumphrey¹, RL Townsend¹, N Stylopoulos^{2,3}, J Ye²

berthohr@pbrc.edu

Topiramate effects on food intake, adiposity and brain site activation.

Charles J. Billington, Catherine M. Kotz

billi005@umn.edu

Involvement of the area postrema in cancer-induced anorexia and body weight loss

Tito Borner¹, Thomas A Lutz¹, J Ruud², Anders Blomqvist², Thomas Riediger¹

tito_borner@access.uzh.ch

The satiating effect of amylin is reduced under hypoglycemic conditions

Christina N. Boyle, Miriam Honegger, Thomas A. Lutz

boyle@vetphys.uzh.ch

The role of the AP in the anorectic effects of amylin and sCT—behavioral and neuronal phenotyping

Fiona Braegger, Christina N. Boyle, Thomas A. Lutz

fionab@access.uzh.ch

Roux-en-Y Gastric Bypass Operation in rats

Marco Bueter¹, Kathrin Abegg², Thomas Bächler^{1,2}, Lori Asarian², Caroline Corteville², Thomas A Lutz²

marco.bueter@usz.ch

Effects of soft drinks and sweetened drinks on hepatic fat content: discussion of studies in progress

V Campos¹, C Despland¹, R Kreis², K Zwygart², P Schneiter¹, C Boesch² and L Tappy^{1,3}

VanessaCaroline.Campos@unil.ch

Estrogens through activation of ER α regulate inflammation and autophagy in the hypothalamus

Deborah Clegg, Eugenia Morselli, and Katelyn Finch

Deborah.clegg@utsouthwestern.edu

Roux-en-Y bypass and gastrointestinal hormones

S De Giorgi^{*1,4}, F Theytaz^{*1}, V Campos¹, L Egli¹, C Lietti², U Toepe^{2,3}, V Giusti⁴, Tappy^{1,4}

Sara.DeGiorgi@unil.ch

Greater Short-Term Weight Loss in Women 20-45 versus 55-65 Years of Age Following Bariatric Surgery

Christopher N. Ochner^{1,2}, Julio Teixeira³, **Nori Geary**⁴, Lori Asarian⁵

ndg47@hotmail.com

Enhanced sleep quality and hypothalamic network de-synchronization in obesity resistant rats.

Catherine M. Kotz^{1,2,3}, Vijayakumar Mavanji³, Charles J. Billington^{2,3,4}

Kotzx004@umn.edu

"Gut feelings": Vagal afferent signaling modulates innate anxiety-like behaviors in rats

Melanie Klarer, Myrtha Arnold, **Wolfgang Langhans**, Urs Meyer

wolfgang-langhans@ethz.ch

Hindbrain-hypothalamic norepinephrine projections may be involved in mediating the satiating effect of glucagon-like peptide-1

Shin J. Lee, Jean-Philippe Krieger, Myrtha Arnold, Wolfgang Langhans

Shin-lee@ethz.ch

Role of Transient Receptor Potential M5 (TRPM5) in Body Weight Regulation

Marie Larsson, Frank Jansen, Kerstin Lundmark, Pernilla Håkansson, **Anders Lehmann**, Peter Brodin

anders.lehmann@astrazeneca.com

Neuronal fatty acid sensing and the regulation of energy homeostasis: it's not all about neurons

Barry E. Levin

levin@umdnj.edu

Glucagon like peptide-1 improves endothelial dysfunction after Roux-en-Y gastric bypass independently from body weight loss

Elena Osto, Caroline Corteville, Kerstin Spliethoff, Lucia Rohrer, Christian Matter, Thomas F. Lüscher, Marco Buetera, **Thomas A. Lutz**

tomlutz@vetphys.uzh.ch

MicroRNA miR-7a is hypothalamus-enriched and expressed in hypothalamic neurons that regulate food intake

Björn Meister, Silke Herzer, Asli Silahdaroglu

bjorn.meister@ki.se

Chenodeoxycholic acid induced secretion of satiety peptides in healthy humans

Anne Christin Meyer-Gerspach, Christoph Beglinger

Anne.Gerspach@usb.ch

The receptors and cells of mouse bitter taste

Wolfgang Meyerhof¹, Kristina Loßow¹, Sandra Hübner¹, Sabine Frenzel¹, Masataka Narukawa^{1,3}, Anja Voigt¹, Ulrich Boehm², Jonas Töle¹, Maik Behrens¹

meyerhof@dife.de

Weight loss in hypobaric hypoxia: The role of Hypoxia Inducible Factor

Biff F. Palmer

Biff.palmer@utsouthwestern.edu

Lipopolysaccharide inhibits ghrelin-sensitive neurons of the arcuate nucleus via NF-κB dependent nitric oxide signaling

Thomas Riediger, Laura Loi, Tito Borner, Thomas A. Lutz

triedig@vetphys.uzh.ch

The site of action that regulates prolongation of the intermeal interval by cholecystinin in the rat is gastrointestinal.

Ayman I. Sayegh¹, Martha C. Washington¹ and Joseph J. Reeve, Jr.²

sayeghai@mytu.tuskegee.edu

Fat and carbohydrate intestinal absorption and intestinal de novo lipogenesis: discussion of studies in progress.

F Theytaz¹, S De Giorgi¹, P Schneider¹, V Giusti², L Tappy^{1,2}

fanny.theytaz@unil.ch

Leptin resistance – Is this phenomenon triggered by hyperleptinaemia or diet-induced hypothalamic inflammation?

Alexander Tups¹, Jonas Benzler¹, Lynda M. Williams², Christiane E. Koch¹

tups@staff.uni-marburg.de