PROGRAM

Third Swiss Winter Conference on Ingestive Behavior
Hotel Laudinella
St. Moritz, Switzerland
26 February – 3 March 2011

Registration, the Saturday reception, all scientific events, and coffee breaks
all take place in the Hotel Aula.

++++++++++++++++++++

SATURDAY 26.2.

1500 **Registration**
1700 **Greeting Reception**
1800 **Dinner** in the Stüva Restaurant (Bündner Buffet)

++++++++++++++++++++

SUNDAY 27.2.

0800 **Session #1**

Introduction & Welcome
Thomas Lutz
Peripheral (1)
Tim Moran
Wolfgang Langhans
Joe Reeve
Coffee break
Stress
Eric Krause
Randall Sakai

1630 **Coffee, Tea**

1700 **Session #2**

RYGB
Hans-Rudi Berthoud
Kirk Habegger
Andres Jensen
Marco Bueter
Stephen Benoit
Bernd Schultes

2000 **Dinner** in the Stüva Restaurant (4-course menu)

++++++++++++++++++++

MONDAY 28.2.

0800 **Session #3**

Peripheral (2)
- Robert Steinert
- Anne Gerspach
- Gustavo Pacheco

Coffee break
- Ayman Sayegh
- Claire Mathes
- Steve Woods

1630 **Coffee, Tea**

1700 **Session #4**

CNS (1)
- Elena Timofeeva
- Anders Lehmann
- Karolina Skibicka
- Suzanne Dickson
- Catherine Kotz
- Charles Billington

2000 **Dinner** in the Pizzeria (Käse Fondue)

++++++++++++++++++++

TUESDAY 1.3.

++++ Free Morning ++++

1630 **Coffee, tea**

1700 **Session #5**

CNS (2)
- Pawel Olszewski

Metabolism (1)
- Claudia Leitner
- Deborah Clegg
- Simon Evers
- Anton Scheurink
- Barry Levin

2000 **Dinner** in the Stüva Restaurant (Bündner Buffet)

++++++++++++++++++++

WEDNESDAY 2.3.

0800 **Session #6**

Metabolism (2)
- Gretha Boersma
- Annette de Kloet
- Alexander Tups
- Jonas Benzler

Coffee break

Illness
- Thomas Riediger
- Melania Osto

1630 **Coffee, Tea**

1700 **Session #7**

Reproductive axis
- Karen Scott
- Lixin Wang
- Gertjan Van Dijk

Coffee break
- Stefano Guidotti
- Lori Asarian

Special presentation
- George Lazslo

2000 **Dinner** in the Stüva Restaurant (4-course menu)

++++++++++++++++++++

THURSDAY 3.3.

0800 **Session #8**

Peripheral (3)
- Thomas Lutz
- Christina Boyle

Take-home messages
- Kellie Tamashiro
- Anders Sjödin

Coffee break
- Adrian Hewson-Hughes
- Rick Samson
- Nori Geary

++++++++++++++++++++

Farewell ! ***Uf Wiederluege !*** ***Sin seveser !***

++++++++++++++++++++

ABSTRACT TITLES,

listed alphabetically by **presenting author**

+ + + + + + +

Scientific Participants Not Presenting

John Gyorki
3 Arthur St
Caulfield North
VIC 3161
Australia

gyorki@bigpond.net.au

Gitte Hansen
gubra aps
Agern Allé 1
2970 Hørsholm
Denmark

gh@gubra.dk

Philip Juul Pedersen
Institute of Basic Animal and Veterinary Science
Copenhagen University
Groennegaardsvej 7
DK-1870 Frederiksberg
Denmark

philip@life.ku.dk

Estradiol (E2) treatment cyclically increases the eating-inhibitory effect of amylin in ovariectomized (OVX) rats

Lori Asarian, Christina Boyle, Thomas Lutz

Lori Asarian
Institute of Veterinary Physiology
University of Zurich
Winterthurerstrasse 260
8057-Zurich
Switzerland

lasarian@vetphys.uzh.ch

Analysis of electronic medical records to predict "success" following bariatric surgery for weight loss

Benoit SC[1], Hunter T[2], Steinbuch M[3], Fegelman S[4], Francis D[5], Seeley RJ[1]

[1]University of Cincinnati Metabolic Disease Institute, Cincinnati, OH, USA, [2]S2 Solutions, Cincinnati, OH, USA, [3]Johnson & Johnson, New Brunswick, NJ, USA, [4]Jewish Hospital of Cincinnati, Cincinnati, OH, USA, [5]Ethicon Endo-Surgery, Inc, Cincinnati, OH, USA .

Stephen C. Benoit
University of Cincinnati
Department of Psychiatry
2170 East Galbraith Rd.
Cincinnati, OH 45237
USA

stephen.benoit@uc.edu

Central WNT/beta-catenin signal transduction regulates glucose homeostasis in mice

Jonas Benzler*, Maria Kutschke*, Goutham K. Ganjam*, Sigrid Stöhr*, Juliane Steger*, Peter R. Shepherd D, David R. Grattan†, Alexander Tups*

*Department of Animal Physiology, Faculty of Biology, Philipps University Marburg; †Centre for Neuroendocrinology and Department of Anatomy and Structural Biology, University of Otago, Dunedin, New Zealand; Maurice Wilkins Centre for Molecular Biodiscovery and Department of Molecular Medicine and Pathology, University of Auckland, Auckland, New Zealand

Jonas Benzler
Department of Animal Physiology
Faculty of Biology
Philipps University Marburg
Karl-von-Frisch Str. 8
D-35043 Marburg
Germany

jonas.benzler@staff.uni-marburg.de

Obesity and motivation to obtain food

Hans-Rudolf Berthoud, Andrew C. Shin

Hans-Rudolf Berthoud
Neurobiology of Nutrition Laboratory
Pennington Biomedical Research Center
6400 Perkins Road
Baton Rouge, LA 70808
USA

berthohr@pbrc.edu

Personality and the pathophysiology of energy metabolism

Gretha Boersma, Lambertus Benthem, Anton Scheurink

Gretha Boersma
Department of Neuroendocrinology
University of Groningen
Nijenborgh 7
9747 AG Groningen
The Netherlands

g.j.boersma@rug.nl

Involvement of the histaminergic system in amylin and leptin action

Christina N. Boyle, Daria Stöcker, Thomas A. Lutz

Christina Neuner Boyle, PhD
Institute of Veterinary Physiology
University of Zürich
Winterthurerstrasse 260
CH-8057 Zürich
Switzerland

boyle@vetphys.uzh.ch

Gastric bypass in rodents - What does it tell us about human physiology?

Marc Bueter

Marco Büter
Department of Surgery
Division of Visceral and Transplantation Surgery
University Hospital
CH 8091 Zurich
Switzerland

marco.bueter@usz.ch

Nonclassical Estrogen Signaling Regulates Adipocyte Size, Glucose Homeostasis, and Energy Expenditure

Kathryn E. Davis, Lana M. Gent, Derrick Cox, Lisa Hahner, **Deborah J. Clegg**

Deborah Clegg
University of Texas Southwestern Medical
Internal Medicine
5323 Harry Hines Blvd
Dallas, TX 75390-8854
USA

deborah.clegg@utsouthwestern.edu

The adipocyte glucocorticoid receptor influences HPA axis activity and diet-induced obesity

Annette D. de Kloet[1,2], Eric G. Krause[2,] Karen A. Scott[1,2], Matia B. Solomon[2] , Jonathan N. Flak[1,2], Yvonne Ulrich-Lai[1,2], Randall R. Sakai[1,2], Randy J. Seeley[1,3], Stephen C. Woods[1,2], James P. Herman[1,2]

[1]Program in Neuroscience, [2]Department of Psychiatry and Behavioral Neuroscience, and [3]Department of Internal Medicine and Endocrinology, University of Cincinnati, Cincinnati, Ohio, USA

Annette D. de Kloet
Department of Psychiatry and Behavioral Neuroscience
University of Cincinnati, Reading Campus
2170 East Galbraith Road (ML0506)
Cincinnati, OH 45237
USA

dekloead@mail.uc.edu

Chronic central ghrelin treatment impacts on emotional reactivity in rodents

Suzanne L. Dickson, Caroline Hansson, David Haage, Magdalena Taube, Emil Egecioglu, Nicolas Salomé

Suzanne L Dickson
Department of Physiology/Endocrinology
Institute of Neuroscience and Physiology
The Sahlgrenska Academy at the University of Gothenburg,
Medicinaregatan 11
SE-405 30 Gothenburg
Sweden

suzanne.dickson@gu.se

The antipsychotic Olanzapine reduces insulin sensitivity independent of body weight gain

Simon Evers, Gertjan van Dijk, Anton Scheurink

Simon Evers
Dept. of Neuroendocrinology
University of Groningen
Nijenborgh 7
9747 AG Groningen
The Netherlands

S.S.Evers@rug.nl

1 + 1 is what I'm telling you: The physiology of synergy

Nori Geary

Nori Geary
Zielackerstrasse 10
8603 Schwerzenbach, Switzerland

ndg47@hotmail.com

The role of sweet taste receptor blockade by lactisole on the secretion of gastrointestinal satiation peptides in healthy humans

Anne C. Gerspach, Robert E. Steinert, Lucia Schönenberger, Angelika Graber-Maier, Christoph Beglinger

Clinical Research Center, Department of Biomedicine and Division of Gastroenterology, Anne Christin Gerspach
Clinical Research Center, Department of Biomedicine and Division of Gastroenterology
University Hospital Basel
Hebelstrasse 20
CH 4031 Basel
Switzerland

GerspachA@uhbs.ch

Postweaning resistance to fat/sucrose (FS) diet-induced metabolic derangements in mice selectively bred for increased running wheel activity can be overruled by maternal FS overfeeding

Stefano Guidotti[1,2], Neele Mayer[1], Gertjan van Dijk[1,2]

[1]Center for behavior and neuroscience (CBN), Unit Neuroendocrinology, and
[2]Center for Isotope Research (CIO), University of Groningen, The Netherlands

Stefano Guidotti,
Neuroendocrinology,
Nijenborg 7, 9747 AG,
Groningen
The Netherlands

s.guidotti@rug.nl

Glucagon-like peptide-1 receptor agonism improves adjustable gastric banding and predicts Roux-en-Y gastric bypass metabolic benefits in rats

Kirk Habegger, Henriette Kirchner, Jenna Holland, Nickki Ottaway, Dan Sweeny, Erin Bartley, Jose Berger, Mouhamadoul Toure, Randy Seeley, Dave D'Alessio, Paul Pfluger, Diego Perez-tilve, Matthias Tschöp

Kirk Habegger
University of Cincinnati
2180 E. Galbraith Road
Room A-129
Cincinnati, OH 45237-1625
USA

habeggkk@ucmail.uc.edu

Regulation of macronutrient intake in dogs and cats.

Adrian Hewson-Hughes[1], Victoria Hewson-Hughes[1], Andrew Miller[1], Scott McGrane[1], Simon Hall[1], Richard Butterwick[1], Stephen Simpson[2], David Raubenheimer[3]

[1]WALTHAM Centre for Pet Nutrition, Waltham-on-the-Wolds, UK; [2]School of Biological Sciences, University of Sydney, Australia; [3]Institute of Natural Sciences, Massey University, Auckland, New Zealand.

Adrian Hewson-Hughes
Waltham Centre for Pet Nutrition
Waltham-on-the-Wolds
Melton Mowbray,
Leicestershire
LE14 4RT
UK

adrian.hewson-hughes@effem.com

Changes in gut morphology and gut hormone gene expression in obese rats following Roux-en-Y gastric bypass

Frederik Hansen[1], **Andres E. Jensen[1]**, Sarah Paulsen[1], Niels Vrang[1], Thomas Lutz[2], Jacob Jelsing[1]

[1]Gubra, Agern Alle 1, 2970 Hørsholm; [2]Institute of Veterinary Physiology, University of Zurich, Switzerland

Andres E. Jensen
gubra aps
Agern Allé 1
2970 Hørsholm
Denmark

aej@gubra.dk

Sleep Deprivation Effects on Food Intake and Body Weight in Obesity Resistant Rats

Catherine Kotz, Jennifer Teske, Charles Billington, Vijaya Muvanji

Catherine Kotz, PhD
Minneapolis VA Medical Center and University of Minnesota
One Veterans Drive
Minneapolis, MN 55417
USA

kotzx004@umn.edu

Hydration state controls stress responsiveness and social behavior

Eric G. Krause[1], Annette D. de Kloet[1,2], Jonathan N. Flak[1,2], Michael D. Smeltzer[1], Matia B. Solomon[1], Nathan K. Evanson[3], Stephen C. Woods[1], Randall R. Sakai[1], James P. Herman[1]

[1]Department of Psychiatry and Behavioral Neuroscience, University of Cincinnati, College of Medicine; [2]Program in Neuroscience, University of Cincinnati; [3]Cincinnati Children's Hospital Medical Center, Cincinnati OH, USA

Eric G. Krause, PhD
Research Assistant Professor
Department of Psychiatry
University of Cincinnati
2170 East Galbraith Rd.
Cincinnati, OH 45237
USA

(513) 558-6588

krauseeg@ucmail.uc.edu

The Future of Clinical Research

George Laszlo

Laszlo Consulting
Gouldsboro, Pennsylvania USA

glaszlo@nyc.rr.com

A review of the role of glutamate in the CNS in the control of food intake

Anders Lehmann

Anders Lehmann
AstraZeneca R&D Mölndal
Mölndal, Sweden

anders.lehmann@astrazeneca.com

Eating-Inhibitory effect of the PPAR-α agonist Wy-14643 in rats

Claudia Leitner, Thomas Jaggi, Wolfgang Langhans

Claudia Leitner
ETH Zürich
Institute of Food, Nutrition & Health
Physiology and Behaviour Laboratory
Schorenstrasse 16
CH-8603 Schwerzenbach
Switzerland

leitnerc@ethz.ch

Fatty acid sensing- it's more than just neurons

Barry E Levin, Christelle Le Foll

Barry Levin
Neurology Service (127C)
VA Medical Center
385 Tremont Ave
E. Orange, NJ 07018-1095
USA

Levin@umdnj.edu

Amylin induced ERK 1/2 phosphorylation may be necessary for amylin's eating-inhibitory effect

C.S. Potes, T. Riediger, **T.A. Lutz**

Thomas Lutz
Institute of Veterinary Physiology
University of Zurich
Winterthurerstrasse 260
CH 8057 Zurich
Switzerland

tomlutz@vetphys.uzh.ch

Microstructural anlaysis of sucrose intake by rats after systemic administration of the glucagon-like-peptide-1 (GLP-1) receptor agonist Exendin-4.

Clare Mathes, Alan Spector

Clare Mathes
Department of Psychology
Florida State University
1107 W. Call Street
Tallahassee, FL 32306-4301
USA

cmathes@neuro.fsu.edu

Endogenous GLP-1 is necessary for the inhibition of food intake by jejunal linoleic acid infusions.

Timothy H. Moran, Megan J. Dailey and Alexander Moghadam

Timothy Moran
Johns Hopkins University School of Medicine
Department of Psychiatry and Behavioral Sciences
Ross 618
720 Rutland Ave
Baltimore, MD 21205
USA

tmoran@jhmi.edu

Central FTO: a look at its involvement in energy homeostasis and beyond

Pawel K. Olszewski, Mathias Rask-Andersen, Markus S. Almén, Allen S. Levine, Helgi B. Schiöth

Pawel K. Olszewski,
Department of Neuroscience,
Uppsala University, BMC, Box 593
Uppsala 75124,
Sweden

olsze005@umn.edu

Subacute endotoxemia alters lipid and lipoprotein metabolism in cats

M. Osto[1], E. Zini[2], M. Franchini[3], C. Wolfrum[4], K. Kaufmann[2], M. Hafner[2], M. Ackermann[3], C.E. Reusch[2], T.A. Lutz[1]

[1] Institute of Veterinary Physiology, [2] Clinic of Small Animal Internal Medicine, [3] Institute of Virology, Vetsuisse Faculty, University of Zurich; [4] Institute of Molecular Systems Biology, Swiss Federal Institute of Technology, ETH Zürich; [5] Institute of Veterinary Pathology, Vetsuisse Faculty, University of Zurich, Zurich, Switzerland

Melania Osto
Institute of Veterinary Physiology
University of Zurich
Winterthurerstrasse 260
CH 8057 Zurich
Switzerland

mosto@vetphys.uzh.ch

The biochemistry, pharmacology and physiology of cholecystokinin: a 2011

perspective

Joseph R. Reeve, Jr., Gordon Ohning, Andreas Stengel, Miriam Goebel-Stengel

Joseph P. Reeve
CURE at UCLA David Geffen School of Medicine,
11301 Wilshire Blvd., Building 115, Room 126,
Los Angeles, CA, 90073
USA

jreeve@mednet.ucla.edu

Central nitric oxide signaling in disease-related anorexia

T. Riediger, S. Pinkernell, T. Borner, T.A. Lutz

Thomas Riediger
Institute of Veterinary Physiology
University of Zurich
Winterthurerstrasse 260
CH 8057 Zurich
Switzerland

triedig@vetphys.uzh.ch

Water or solute: What determines the ingestive response to orexigenic/anorexigenic peptides?

Willis. K. Samson, Gina L.C. Yosten, Alicia T. Pate

Willis K. Samson
Pharmacology and Physiology
Saint Louis University
1402 South Grand Boulevard
St. Louis, MO 63104
USA

samsonwk@yahoo.com

Close-arterial injections of gastrin-releasing peptide-29 evoke feeding responses consistent with a role in the short-term regulation of food intake

Ayman I. Sayegh

Ayman I.Sayegh
Tuskegee University, College of Veterinary Medicine
Gastroenterology Laboratory
Department of Biomedical Sciences
College of Veterinary Medicine
Tuskegee University
Tuskegee, AL 36088
USA

sayeghai@tuskegee.edu

Sleep disturbance, food intake and glucose homeostasis

Anton Scheurink, Paulien Barf

Anton JW Scheurink
Department of Neuroendocrinology
University of Groningen
PO Box 11103
9750 CC Groningen
The Netherlands

a.j.w.scheurink@rug.nl

Effects of bariatric surgery on eating behaviour

Bernd Schultes

Prof. Dr. Bernd Schultes
Interdisciplinary Obesity Center
Kantonsspital St. Gallen Heidenerstr. 11
9400 Rorschach
Switzerland

bernd.schultes@kssg.ch

Assisted reproductive techniques alter energy balance of mouse offspring

Karen A. Scott[1,2], Yukiko Yamazaki[3], Michael L. Smeltzer[1], Yanling Lin[3], Annette D. De Kloet[1,2], Stephen C. Woods[1,2], Ryuzo Yanagimachi[3], Kellie L. K. Tamashiro[4], Randall R. Sakai[1,2]

[1]Department of Psychiatry and Behavioral Neuroscience, [2]Graduate Program in Neuroscience, University of Cincinnati College of Medicine, Cincinnati OH, USA; [3]Institute for Biogenesis Research, John A. Burns School of Medicine, University of Hawaii, Honolulu HI, USA; [4]Department of Psychiatry and Behavioral Sciences, The Johns Hopkins University, Baltimore MD, USA

Karen A. Scott
University of Cincinnati, Reading Campus
Department of Psychiatry and Behavioral Neuroscience
2170 E. Galbraith Rd. Bldg E-204A
Cincinnati, OH 45237
USA

scottk2@mail.uc.edu

Playing video games promotes overconsumption of food

Anders Sjödin[1], Trine Visby[1], Signe Nyby[1], Lars Klingenberg1,Nikolaj T. Gregersen[1], Angelo Tremblay[3], Arne Astrup[1], Jean-Philippe Chaput[1,2]

[1]Department of Human Nutrition, Faculty of Life Sciences,University of Copenhagen, Copenhagen, Denmark; [2]Children's Hospital of Eastern Ontario Research Institute, Ottawa, Ontario, Canada; [3]Division of Kinesiology, Department of Social and Preventive Medicine, Faculty of Medicine, Laval University, Quebec City, Quebec, Canada

Anders Sjödin
Rolighedsvej 39
1958 Frederiksberg
Denmark

amsj@life.ku.dk

Ghrelin's action on food motivation

Karolina P Skibicka, Suzanne L Dickson

Karolina Patrycja Skibicka, Ph.D.
Institute of Neuroscience and Physiology
Dept. of Physiology/Endocrinology
The Sahlgrenska Academy at University of Gothenburg
P.O. Box 434, SE-405 30
Göteborg
Sweden

Phone: +46 31-786 3818

Karolina.Skibicka@neuro.gu.se

Interactions between the stomach and the small intestine in the control of appetite and the secretion of satiation hormones in humans

Robert E. Steinert, Anne C. Gerspach, Christoph Beglinger

Robert Steinert
Clinical Research Center, Department of Biomedicine, Division of Gastroenterology
University Hospital Basel
Hebelstrasse 20
4031 Basel
Switzerland

rsteinert@uhbs.ch

Mechanisms for metabolic side effects associated with the atypical antipsychotic olanzapine

Kellie L. K. Tamashiro, Ryan H. Purcell, Kenneth Volk, Bo Sun, Erin R. Ewald, Timothy H. Moran

Kellie L. K. Tamashiro, Ph.D.
Johns Hopkins University
Department of Psychiatry & Behavioral Sciences
720 Rutland Avenue
Ross 618
Baltimore, MD 21205
USA

ktamashiro@jhmi.edu

Neuronal dynamics of food-entrainable oscillator

Elena Timofeeva

Elena Timofeeva
Centre de recherche de l'Institut universitaire de cardiologie et de pneumologie de Québec Pavillon Marguerite d'Youville, local Y3150
2725, chemin Sainte Foy
Québec
G1V 4G5 Canada

Elena.Timofeeva@fmed.ulaval.ca

The dietary flavonoids naringenin and quercetin impair glucose homeostasis in rodents possibly via inhibition of central insulin signalling

Alexander Tups

Alexander Tups
Department of Animal Physiology
Faculty of Biology
Philipps University Marburg
Karl-von-Frisch Str. 8
D-35043 Marburg
Germany

alexander.tups@staff.uni-marburg.de

Energy balance regulation in mice selectively bred for wheel running behavior: effects on reproductive output

Gertjan van Dijk, Kristin Schubert, Stefano Guidotti, Anton Scheurink, Theodore Garland, Csaba Nyakas, Isabella Jonas

Gertjan van Dijk
Department of Neuroendocrinology
University of Groningen
PO Box 11103
9750 CC Groningen
The Netherlands

gertjan.van.dijk@rug.nl

Corticotropin-releasing factor-overexpressing (CRF-OE) mice display sex differences in weights of adrenal gland and brown fat, blood glucose and cytokines in perigonadal fat

Lixin Wang, Pu-Qing Yuan, Miriam Goebel, Andreas Stengel, Joseph Reeve, Yvette Taché

Lixin Wang
CURE/UCLA
11301 Wilshire Blvd.
Bldg. 115
Los Angeles, CA 90073
USA

lixinw@ucla.edu

Behavioral and metabolic parameters of the CCK-knockout mouse

Chun-Min Lo, Silvana Obici, H. Henry Dong, Michael Haas, Dawnwen Lou, Dae Hyun Kim, Min Liu, David D'Alessio, Patrick Tso, **Stephen C. Woods**

Stephen C. Woods
Metabolic Diseases Institute
University of Cincinnati
2170 East Galbraith Road
Cincinnati, OH 45237
USA

WOODSSC@UCMAIL.UC.EDU