



***8<sup>TH</sup> SWISS WINTER CONFERENCE***

***on***

***INGESTIVE BEHAVIOR***

**St Moritz**

**Switzerland**

**25 February – 1 March 2017**

## **ACKNOWLEDGEMENTS**

*The organisers gratefully acknowledge:*

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AJP-RICP for sponsoring travel awards for the outstanding postdoctoral or fellow presentation; AJP-RICP will also invite some speakers to prepare mini-reviews based on their presentations.

## **PROGRAM**

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

**25 February – 1 March 2017**

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### **Organizers**

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# SCHEDULE

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## SATURDAY 25.2.

**1600**            **Registration** in the Aula Lobby

**1730**            **Greeting Reception** in the Aula Lobby

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## SUNDAY 26.2.

**0800**            **Welcome & Introduction**  
Thomas Lutz

**0815 – 1100**   **Session #1, Amylin**  
Jansson, Palsdottir, LeFoll, Levin, Lutz

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**1600 -**            **Coffee and cake in the Brasserie**

**1730 -1930**   **Session #2, GLP-1**  
Riediger, Liberini, Lee

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**MONDAY 27.2.**

**0800 - 1100 Session #3, Metabolism, obesity and salt**  
Merkestein, Schürmann, Surowska, Yosten

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**1600 - Coffee and cake in the Brasserie**

**1730 - 1930 Session #4, RYGB, Endocannabinoids/OEA**  
Berthoud, Sjodin, Röhrig, Romano

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**TUESDAY 28.2.**

**0800 - 1100 Session #5, Salt, CNS (either or)**  
Samson, Pacheco-Lopez, Davidson, Moran,  
Olszewski

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**1600 - Coffee and cake in the Brasserie**

**1730 - 1930 Session #6, Vagus**  
de La Serre, Stein, Langhans

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**WEDNESDAY 1.3.**

**0800 - 0930 Session #7, CNS**  
Boyle, Coppin, Tups

**1000 Check out and departure**

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***Farewell !***

***Auf Wiedersehen !***

***Uf Wiederluege !***

***Sin seveser !***

***Arrivederci !***

***Au Revoir !***

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**Roux-en-Y gastric bypass surgery in adolescent male and female mice prevents diet-induced obesity later in life**

Zheng Hao, R. Leigh Townsend, Michael B. Mumphrey, Christopher D. Morrison, Heike Münzberg, and **Hans-Rudolf Berthoud**

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**Un-silencing of native leptin receptors (LepR) in SF-1 neurons does not rescue obese phenotype in otherwise LepR-deficient mice**

**Christina N. Boyle**, Seraina Senn, Christelle Le Foll, Sonya Duffy, Lynda Whiting and Thomas A. Lutz

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**The role of the amygdala and hippocampus in food intake and body weight regulation**

**Géraldine Coppin**

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**Hippocampal-dependent cognitive function: A critical component of energy regulation**

**Terry L. Davidson**

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**Microbiota-driven inflammation of the vagal afferent pathway  
Claire de La Serre**

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**Functional interleukin-6 receptor- $\alpha$  is localized on tanycytes at the base of the third ventricle**

**John-Olov Jansson**<sup>1</sup>, Fredrik Anesten<sup>1</sup>, Cristiano Santos<sup>1</sup>, Erik Schéle<sup>1</sup>, Edwin Gidestrand<sup>1</sup>, Björn Meister<sup>2</sup>, Vilborg Pálsdóttir<sup>1</sup>

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**The cocaine- and amphetamine-regulated transcript (CART) mediates satiation induced by vagal afferent neuron GLP-1 receptor activation**

Jean-Philippe Krieger<sup>1</sup>, **Wolfgang Langhans**<sup>1</sup>, Myrtha Arnold<sup>1</sup>, Guillaume de Lartigue<sup>2</sup>, Shin J. Lee<sup>1</sup>

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**Central pre-proglucagon overexpression contributes to diet-induced obesity in mice**

Nino Jejelava, Wolfgang Langhans, **Shin J. Lee**

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**Amylin signaling in the hypothalamus**

**Christelle Le Foll**<sup>1</sup>, Bernd Coaster<sup>1</sup>, Christina N. Boyle<sup>1</sup>, Lynda Whiting<sup>1</sup>, Barry E. Levin<sup>2</sup>, Thomas A. Lutz<sup>1</sup>.

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**Relative role of amylin-IL-6 interactions in VMH leptin signaling and ARC-PVN pathway development**

**Barry E. Levin**<sup>1</sup>, Miranda Johnson<sup>1</sup>, Thomas A. Lutz<sup>2</sup>, Sebastien Bouret<sup>3</sup>, Louis Larsen<sup>1</sup> and Christelle Le Foll<sup>2</sup>

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**Topic to be announced**

**Claudia Liberini** and Matthew R. Hayes

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**The area postrema (AP) is an important site for salmon calcitonin (sCT) to decrease phasic dopamine release in the nucleus accumbens (NAc).**

Lynda Whiting<sup>1</sup>, James E. McCutcheon<sup>2</sup>, Christina N. Neuner-Boyle<sup>1</sup> Mitchell F. Roitman<sup>3</sup> and **Thomas A. Lutz**<sup>1,4</sup>

<sup>1</sup>Institute of Veterinary Physiology, University of Zurich, Zurich. <sup>2</sup>Department of Neuroscience, Psychology and Behaviour, University of Leicester, Leicester. <sup>3</sup>Department of Psychology, University of Illinois at Chicago, Chicago IL. <sup>4</sup>Centre of Integrative Human Physiology, University of Zurich, Zurich.

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## **FTO influences adipogenesis by regulating mitotic clonal expansion**

**Myrte Merkestein**<sup>#\*1,2</sup>, Samantha Laber<sup>#1,2</sup>, Fiona McMurray<sup>1</sup>, Daniel Andrew<sup>1</sup>, Gregor Sachse<sup>1,2</sup>, Jeremy Sanderson, Mengdi Li, Samuel Usher<sup>1,2</sup>, Dyan Sellayah<sup>1,2</sup>, Frances M. Ashcroft<sup>1,2</sup>, Roger D. Cox<sup>1</sup>

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## **Binge eating and cognitive deficits**

**Tim Moran** and Anjeli Chawla

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## **Functional interrelationship between social and ingestive behaviors: insights from studies on the animal model of autism**

**Pawel K. Olszewski** <sup>1,2</sup>, Anica Klockars <sup>2</sup>, Kathryn Laloli <sup>2</sup>, Allen S. Levine <sup>1</sup>

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**Switching Adolescent High-Fat Diet to Adult Control Diet Restores Neurocognitive Alterations**

Chloé Boitard 1,2, Shauna L. Parkes 1,2,3, Amandine Cavaroc1,2, Frédéric Tantot 1,2, Nathalie Castanon 1,2, Sophie Layé 1,2, Sophie Tronel 2,4, **Gustavo Pacheco-Lopez** 5,6, Etienne Coutureau 2,3, and Guillaume Ferreira 1,2

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**Interleukin-6 is important for thermogenesis and energy expenditure in cold exposed mice**

**Vilborg Pálsdóttir**, Emil Egecioglu, Fredrik Anesten, Erik Schéle and John-Olov Jansson

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**Pharmacological and genetic blockade of hindbrain GLP-1 signalling counteracts cancer anorexia-cachexia syndrome in hepatoma tumor-bearing rats**

Tito Borner<sup>1</sup>, Claudia G. Liberini<sup>1</sup>, Thomas A. Lutz<sup>1,2</sup>, **Thomas Riediger**<sup>1,2</sup>

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**Homeostatic eating elicits a fast mobilization of the peripheral endocannabinoids 2-AG, PEA and SEA in human plasma**

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**Role of oleoylethanolamide in the "gut-to-brain axis": possible implications for the treatment of obesity and eating disorders**

**Adele Romano**<sup>1</sup>, Cristina Anna Gallelli<sup>1</sup>, Justina Barbara Koczwara<sup>1</sup>, Maria Vittoria Micioni di Bonaventura<sup>2</sup>, Mariaelena Giusepponi<sup>2</sup>, Carlo Cifani<sup>2</sup>, <sup>3</sup>Thomas Lutz and Silvana Gaetani<sup>1</sup>

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## **AT1aR-mediated Sodium Appetite**

**Rick Samson**, Sylvia Gasparini, and Gina Yosten

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## **Identification of genetic and epigenetic alterations contributing to obesity and type 2 diabetes**

**Annette Schürmann**<sup>1,2</sup>, Mandy Stadion<sup>1,2</sup>, Oliver Kluth<sup>1,2</sup>, Heike Vogel<sup>1,2</sup>, Anne Kammel<sup>1,2</sup>, Sophie Saussenthaler<sup>1,2</sup>, Christian Baumeier<sup>1,2</sup>

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## **Roux-en-Y gastric bypass and Sleeve gastrectomy does not affect food preferences when assessed by an ad libitum buffet meal**

**Anders Sjödin**<sup>1</sup>, Mette Søndergaard Nielsen<sup>1</sup>, Simone Rasmussen<sup>1</sup>, Christian Ritz<sup>1</sup>, Carel le Roux<sup>2</sup> & Julie Berg Schmidt<sup>1</sup>

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## **Emerging role of astrocytes in the dorsal vagal complex in the control of food intake**

**Lauren Stein**, David J. Reiner, and Matthew R. Hayes

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## **Effects of dietary protein content on metabolic responses to sucrose overfeeding in healthy humans**

**Anna Surowska**<sup>1</sup>, Prasanthi Jegatheesan<sup>1</sup>, Vanessa Campos<sup>1</sup>, Jérémy Cros<sup>1</sup>, Karin Zwygart<sup>2</sup>, Roland Kreis<sup>2</sup>, Chris Boesch<sup>2</sup>, and Luc Tappy<sup>1</sup>

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## **Saturated fatty acids alter hypothalamic, hippocampal and cortical morphology and lead to rapid changes in episodic memory**

**Alexander Tups**<sup>1,2</sup>, Aline Loehfelm<sup>1</sup>, Cindy Hempp<sup>2</sup>, Fiona H McLean<sup>1</sup>, Rosamund F Langston<sup>3</sup>, and Lynda M Williams<sup>4</sup>

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## **Neuronostatin's Contributions to Glucose Homeostasis**

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