



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

***on***

***INGESTIVE BEHAVIOR***

**St Moritz**

**Switzerland**

**27 February – 3 March 2016**

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

**27 February – 3 March 2016**

**ACKNOWLEDGEMENTS**

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**TSE Systems GmbH**

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*for a generous donation*

&

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*for funding two Travel Awards, one to be granted to a pre-doctoral student and one to a beginning investigator (within 5 y of PhD or equivalent), as decided by the Meeting Award Committee.*

## PROGRAM

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

**27 February – 3 March 2016**

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### Organizers

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**Registration, opening reception and coffee breaks are in the Hotel Lobby,  
near the Aula.**

**Scientific sessions are in the Aula.**

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







## ABSTRACT TITLES

Listed alphabetically by **presenting author in bold**

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### *Scientific Participants Not Presenting*

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**Protective effects of estradiol (E2) and Roux-en-Y gastric bypass surgery (RYGB) on adipose-tissue inflammation in ovariectomized rats**

Muriel Lüscher<sup>1</sup>, Deborah J. Clegg<sup>2</sup>, Thomas A. Lutz<sup>1,3</sup> and **Lori Asarian**<sup>1,3</sup>

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**Fibroblast growth factor-21 is not required for the beneficial effects of Roux-en-Y gastric bypass surgery in the mouse**

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

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**A role for transthyretin in the regulation of energy balance and glucose homeostasis**

**Sheng Bi**, Fenping Zheng, Yonwook J. Kim

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**Weight Loss, Bariatric Surgery and Benefit: Lessons from The Diabetes Surgery Study.**

**Charles J. Billington**<sup>1,2,3</sup>

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**Leptin action on SF1 neurons in the VMH promotes amylin sensitivity in mice**

**Christina N. Boyle**, Sonya Duffy, Christelle Le Foll and Thomas A. Lutz

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**Vagal CART is an important satiation neuropeptide that is lost in response to high fat diet to cause hyperphagia and obesity**

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**Potential lipopolysaccharide cannabinoid interactions in vagal afferent neurons.**

**Gaylen L. Edwards**, Juliane R. Johnston, and Kimberly G. Freeman.

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## **Upregulation of PPAR- $\gamma$ and fat-oxidative genes in adipose tissue by thylakoids in high-fat fed mice**

**Charlotte Erlanson-Albertsson**<sup>1</sup>, Eva-Lena Stenblom<sup>1</sup>, Caroline Montelius<sup>1</sup>  
Emil Egecioglu<sup>1</sup>, and Karin G. Stenkula<sup>2</sup>

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## **Effects of intragastric administration of L-leucine or L-isoleucine on gastric emptying of, and blood glucose responses to, a liquid mixed-nutrient meal and on subsequent energy intake in healthy, normal-weight humans.**

**Christine Feinle-Bisset**, Sina S Ullrich, Penelope Fitzgerald, Gudrun Schober, Iris Nkamba, Michael Horowitz, Robert E Steinert

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## **Leptin signaling in the caudal medial nucleus tractus solitarius (cSolM) is necessary for the full estrogenic control of eating and body weight and for CCK satiation in ovariectomized (OVX) rats**

Lori Asarian<sup>1</sup>, Thomas Bächler<sup>1</sup>, Ralph DiLeone<sup>2</sup>, Christa M. Patterson<sup>3</sup>, Martin G. Myers, Jr<sup>3</sup>, Thomas A, Lutz<sup>1</sup> and **Nori Geary**<sup>4</sup>

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### **Amylin activates GABA interneurons in the lateral dorsal tegmental area (LDTg) to control food intake**

David J. Reiner<sup>1</sup>, Elizabeth G. Mietlicki-Baase<sup>1</sup>, Scott E. Kanoski<sup>2</sup>, **Matthew R. Hayes<sup>1</sup>**

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### **The effect of oxytocin on acute food intake in lean rats is not mediated by Oxytocin Receptor**

Linu M. John, Kirsten Raun and **Dorte Holst**

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### **Preproglucagon (PPG) neurons in the hindbrain have IL-6 Receptor $\alpha$ (IL-6Ra) and show Ca<sup>2+</sup> influx in response to IL-6**

Anesten F<sup>1</sup>, Holt MK<sup>3</sup>, Schéle E<sup>1</sup>, Pálsdóttir V<sup>1</sup>, Reimann F<sup>2</sup>, Gribble F<sup>2</sup>, Safari C<sup>1</sup>, Skibicka KP<sup>1</sup>, Trapp S<sup>3</sup>, **Jansson JO<sup>1</sup>**

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### **Effects of caloric restriction, liraglutide and FGF21 on body weight in DIO mice**

**Marina Kjaergaard<sup>1,2</sup>**, Anna Secher<sup>2</sup>, Jens Rehfeld<sup>1</sup>, Kirsten Raun<sup>2</sup>, Birgitte S Wulff<sup>2</sup>

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## **Orexin rescue of physical activity and cognitive deficits in an orexin loss model**

**Catherine M. Kotz**<sup>1,2,3</sup>, Tammy A. Butterick<sup>1,2,3</sup>, Joshua Nixon<sup>1,2,3</sup>, Vijay Mavanji<sup>1,2,3</sup> and Charles J. Billington<sup>1,3,5</sup>

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## **Vagal afferent neuron GLP-1 receptors modulate energy expenditure via brown adipose tissue thermogenesis**

Jean-Philippe Krieger, Myrtha Arnold, Klaus Grossi Pettersen, Pius Lossel, **Wolfgang Langhans**, Shin J. Lee

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## **Hypothalamic-Pituitary-Adrenal (HPA) axis modulates the anorexigenic property of Exendin-4**

**Shin J. Lee**<sup>1</sup>, Katharina Diener<sup>1</sup>, Sharon Kaufman<sup>1</sup>, Jean-Philippe Krieger<sup>1</sup>, Klaus G. Pettersen<sup>1</sup>, Nino Jejelava<sup>1</sup>, Myrtha Arnold<sup>1</sup>, Alan Watts<sup>2</sup>, Wolfgang Langhans<sup>1</sup>

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**Amylin-induced ERK signaling in the hypothalamus**

**Christelle Le Foll**<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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**Amylin signaling and the postnatal development of the ARC-PVN pathway**

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**The satiating hormone amylin induces neurogenesis in the area postrema of adult rats**

**Thomas A. Lutz**<sup>1</sup>, Claudia Liberini<sup>1</sup>, Barry E. Levin<sup>2</sup>, Christelle Le Foll<sup>1</sup>, Christina N. Boyle<sup>1</sup>

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### **Bitter taste receptors in the CNS**

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### **Determination of *in vivo* adipose cellular kinetics in humans**

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### **Novel ghrelin receptor inverse agonists improve disturbed energy balance and glucose homeostasis in obese rodents**

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## **Angiotensin regulation of ingestive behaviors: To MAP-K or not to MAP-K**

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## **Evaluation of enterostatin as an anti-obesity therapy in rodents**

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## **Water we have here? A potential interaction between adropin and GPR19 in regulating fluid homeostasis.**

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## **The role of gut motor and hormone function in the satiating and glucoregulatory capacity of amino acids in healthy men**

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## **Leptin resistance: Cause or consequence of hypothalamic inflammation?**

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## **Dietary intake as a synchronizer of the circadian system**

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## **ApoA-IV, a gut derived protein intimately involved in glucose metabolism**

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## **Characterization of neural activation produced by running wheel access in rats**

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