

Training School in Neuroendocrinology, Prato, Italy

SCIENTIFIC PROGRAM

SATURDAY (July 27, 2013)

1000-1300 h **Arrival-Registration**

1300 h **Opening Remarks**

Co-Chairs: **Nelly Pitteloud**, **Iain Clarke**, and **Vincent Prevot**

1330-1430 h **Key Note Speaker**

Gareth Leng, University of Edinburgh, UK

Neurotransmitters and Neuropeptides - Whispered Secrets and Public Announcements

1430-1730 h **Infertility: a Neurodevelopmental Disorder?**

* *Chaired by **Nelly Pitteloud**, CHUV, Lausanne, Switzerland*

Paolo Giacobini, Inserm, University of Lille, France

From Nose to Brain: Guidance Cues in GnRH Neuronal Migration and Plasticity

Anna Cariboni, University of Milan, Italy

Cellular and Genetic Tools to Understand GnRH Neuron Development and Disease

Ulrich Boehm, University of Saarland, Germany

Targeting Reproduction

1730-1930 h **Opening reception**

SUNDAY (July 28, 2013)

0900-1300 h **Genetic and Molecular Basis of Neuroendocrine Diseases-
Part I**

* *Chaired by **Ulrich Boehm**, University of Saarland, Germany*

Sabine Heger, Children's Hospital, Hannover, Germany

Genetics of Hypogonadotropic Hypogonadism

Nelly Pitteloud, CHUV, Lausanne, Switzerland

Oligogenicity in Congenital Hypogonadotropic Hypogonadism

20-min Coffee Break

A Kemal Topaloglu, Cukurova University, Turkey

TAC3 TACR3 Mutations in Human Hypogonadotropic Hypogonadism

Ursula Kaiser, Harvard Medical School, USA
A Novel Genetic Cause of Central Precocious Puberty Identified By Whole Exome Sequencing

1315-1415 h **Lunch**

1415-1630 h **Young Investigator Poster Session 1**

1630-1730 h **Ethical Issues in Animal Research**

François Lachapelle, Chair of the National Office of Animal Welfare, France

1730 h **Free time**

MONDAY (July 29, 2013)

0900-1050 h **Genetic and Molecular Basis of Neuroendocrine Diseases - Part II**

* *Chaired by **Sebastien Bouret**, Children's Hospital of Los Angeles, USA*

Catalina Poiana, National Institute of Endocrinology, Romania
Genetics of Pituitary Adenomas. Phenotype Characteristics of Patients with AIP Germline Mutation

Marjo-Riitta Jarvelin, Imperial College London, UK
Genetics of Early Growth and Development

20-min Coffee Break

1110-1300 h **Are Metabolic Disorders Brain Diseases?-Part I**

* *Chaired by **Iain Clarke**, Monash University, Australia*

Sebastien Bouret, Children's Hospital of Los Angeles, USA
Developmental Programming of Hypothalamic Feeding Circuits

Zane Andrews, Monash University, Australia
Ghrelin and the Neuroendocrine Control of Energy Metabolism and Neuroprotection

1300-1400 h **Lunch**

1400-1530 h **Workshop: How to prepare scientific communications**
Dave Grattan (New Zealand), **Gareth Leng** (UK)

1530-1630 h **Are Metabolic Disorders Brain Diseases?-Part II**

* *Chaired by **Anna Cariboni**, University of Milan, Italy*

Dr. Michael Cowley, Monash University, Australia
Cardiovascular Effects of Obesity: Leptin Causes Hypertension

1630-1730 h **Ethics in Neuroscience**
Hervé Chneiweiss, University Paris Descartes, France

1730 h **Free time**

TUESDAY (July 30, 2013)

0900-1050 h **Are Metabolic Disorders Brain Diseases?-Part III**
** Chaired by **Jeremy Smith**, University of Western Australia, Australia*

Matthias Tschöp, Technical University, Munich, Germany
Hypothalamic Control of Metabolism and the Metabolic Syndrome

Belinda Henry, Monash University, Australia
Neuroendocrine Control of Thermogenesis

20-min Coffee Break

1110-1300 h **Brain-Endocrine Interactions-Part I**
** Chaired by **Zane Andrews**, Monash University, Australia*

Philippe Ciofi, Inserm, University of Bordeaux, France
Structure-Function Relationships in the Infundibular Area: Evolution of Concepts

Dave Grattan, University of Otago, New Zealand
Prolactin and the Neuroendocrine Adaptation to Pregnancy

1300-1400 h **Lunch**

1400-1630 h **Young Investigator Poster Session 2**

1630-1730 h **Brain-Endocrine Interactions-Part II**
** Chaired by **Rebecca Campbell**, University of Otago, New Zealand*

Patrice Mollard, Inserm, CNRS, University of Montpellier, France
Hypothalamus-Pituitary Axis Revisited: Identification and Role of Pituitary Cell Networks

1730 h **Free time**

WEDNESDAY (July 31, 2013)

0900-1300 h **Neuropeptides and Neuroendocrine Control of Reproduction-
Part I**

** Chaired by **Valérie Simonneaux**, CNRS, University of Strasbourg, France*

Manuel Tena-Sempere, University of Cordoba, Spain
Neuropeptide Control of Puberty and Fertility: Beyond Kisspeptins

Alan Herbison, University of Otago, New Zealand
The Generation of GnRH Pulses

20-min Coffee Break

Iain Clarke, Monash University, Australia
The Reproductive Neuroendocrine system dances to many Tunes

Erik Hrabovszky, Hungarian Academy of Sciences, Hungary
*Peptidergic Circuitries Regulating Human Reproduction in the Face of
Neuroanatomical Data*

1300-1400 h **Lunch**

1400h-1730h **Scientific Presentation by Young Investigators-Session 1**

** Chaired **Marjo-Riitta Jarvelin**, Imperial College London, UK*

1730h Free time

THURSDAY (August 1, 2013)

0900-1050 h **Crosstalk Between Reproduction and Metabolism**

** Chaired by **Rebecca Campbell**, University of Otago, New Zealand*

Jeremy Smith, University of Western Australia, Australia
Kisspeptin, Fertility and Fatness

Vincent Prévot, Inserm, University of Lille, France
Leptin and Puberty

20-min Coffee Break

1110-1300h **Seasonal and Circadian Rhythms**

** Chaired by **Allan Herbison**, University of Otago, New Zealand*

Urs Albrecht, University of Fribourg, Switzerland
The Circadian Clock and its Impact on Physiology and Behavior

Valérie Simonneaux, CNRS, University of Strasbourg, France
Melatonin Inhibits the TSH-Regulated Kisspeptin and RFRP-3 Expression to Synchronize Reproduction with the Seasons

1300-1400 h **Lunch**

1400h-1700h **Scientific Presentation by Young Investigators-Session 2**

** Chaired **Michael Cowley**, Monash University, Australia*

1730h **Free time**

FRIDAY (August 2, 2013)

0900-1300 h **Hormones, Plasticity and Behavior**

** Chaired by **Paolo Giacobini**, Inserm, University of Lille, France*

Anne-Simone Parent, University of Liège, Belgium
Neuroendocrine Disruption: Reproduction and Beyond

Rebecca Campbell, University of Otago, New Zealand
Morphological Plasticity of Neuroendocrine Neurons

20-min Coffee Break

Julie Bakker, University of Liège, Belgium
Role of Gonadal Hormones in the Sexual Differentiation of the Brain

Mike Ludwig, University of Edinburg, UK
Vasopressin and Social Odour Processing in the Olfactory System

1300-1400 h **Lunch**

1400h-1700 h **Scientific Presentation by Young Investigators-Session 3**

** Chaired **Erik Hrabovszky**, Hungarian Academy of Sciences, Hungary*

1700-1730 h **Conclusion and Feedback on the School**

1900 h **Farewell Diner**