

# SCIENTIFIC PROGRAMME

## Thursday July 11<sup>th</sup>

- 16:00 – 20:00      **Registration @ Kolpinghaus**
- 19:00 – 19:15      **Welcome Address**
- 19:15 – 20:00      **Plenary Lecture 1**
- **PL-1 Alison Fleming**, University of Toronto, CA  
Neuropsychology of mothering and effects of early experience  
**Chair: Bob Bridges**, Tufts University, US
- 20:00 – 22:00      **Opening reception @ Kolpinghaus**  
Including music from the *Spitzweg Quartet* (former members of the famous *Domspatzen*)

## Friday July 12<sup>th</sup>

- 08:30 – 10:05      **Symposium S1: From animals to humans: Brain physiology of mothering**  
**Chair: Colin Brown**, University of Otago, NZ
- 08:30 – 08:55      ● **S1-1 Arpád Dobolyi**, Semmelweis University Budapest, HU *conditioned release*  
A thalamic relay center affecting maternal physiology by peptidergic *KO crosses natural KO ↓ weight* mechanisms *TIP39, amylin, maternal motivation*
- 08:55 – 09:20      ● **S1-2 Danielle Stolzenberg**, UC Davis, US  
Epigenetic mechanisms underlying experience induced improvements in maternal care
- 09:20 – 09:45      ● **S1-3 Eydie L. Moses-Kolko**, University of Pittsburgh, US  
Interrelationships between postpartum mood symptoms, neural responses to emotional stimuli, and maternal caregiving
- 09:45 – 10:05      **S1-4 James Swain**, University of Michigan, US  
Maternal Moods and Brain Physiology
- 10:05 – 10:30      **Coffee Break**  
*insula- bilateral activation*  
*right vs left amygdala*  
*negative states*      *positive states*

10:30 – 12:00

**Symposium S2 Early-life adversity and outcome in adulthood**

Chair: Paula Brunton, University of Edinburgh, UK

**MEDIATION ANALYSES**

10:30 – 11:00

- **S2-1 Stefania Maccari**, University of Lille, FR

Grandma's curse of stress in the prenatal stress rat model

*Maternal 2011 Neuroendocrinology  
maternal ↓ body weight  
BDNF ↓ meth (P1/P2)  
MEF meth*

11:00 – 11:30

- **S2-2 Harm Krugers**, University of Amsterdam, NL

Regulation of brain structure & function by variations in maternal care

*dorsal hippoc.*

**Hessel** - mat variation

11:30 – 12:00

- **S2-3 Moishe Szyf**, McGill University Montreal, CA

The early-life social environment and DNA methylation

12:00 – 13:30

**Lunch Break**

13:30 – 15:00

**Symposium S3 Hot Topics I**

Chair: Claire-Dominique Walker, McGill University, CA

13:30 – 13:45

- **Claire-Dominique Walker**, McGill University Montreal, CA (see P99)

13:45 – 14:00

- **Clara Perani**, University of Regensburg, DE (see P79)

*HFD ↑ COBT postpartum*

14:00 – 14:15

- **Christina Ragan**, Michigan State University, US (see P81)

*TPH2 (dorsal raphe) - LG*

*noncont anxiety beh.*

14:15 – 14:30

- **Maria Zuluaga**, Universidad de la Republica, UY (see P105)

*leaves most anxious*

14:30 – 14:45

- **Kumi Kuroda**, RIKEN Brain Science Institute, JP (see P52)

*walking effects*

14:45 – 15:00

- **Aniko Korosi**, University of Amsterdam, NL (see P66)

15:00 – 15:30

**Coffee Break**

15:30 – 17:00

**Symposium S4 Maternal Mood and Depression**

- Alison Douglas Memorial Symposium -

Chair: Inga Neumann, University of Regensburg, DE

15:30 – 16:00

- **S4-1 Joe Lonstein**, Michigan State University, US

Stability of maternal anxiety across time: associations with mothering style, infant touch, and neurochemistry

16:00 – 16:30

- **S4-2 Jamie Maguire**, Tufts University, US

Peripartum changes in GABAergic control of the hippocampus and HPA axis: implications for maternal mood

16:30 – 17:00

- **S4-3 Gunther Meinlschmidt**, Ruhr-University Bochum, DE

Relation between oxytocin levels during pregnancy & postpartum depression

17:00 – 19:00

**Poster session 1**

Presentation of posters with odd numbers, with beer and brezel

Saturday July 13<sup>th</sup>

08:30 – 09:15

**Plenary Lecture 2**

● **PL-2 Tallie Baram**, UC Irvine, US

How maternal signals 'rewire' baby's brain and influence cognitive and emotional outcomes *NKSF*

Chair: **C. Sue Carter**, RTI International, US

09:15 – 10:45

**Symposium S5 Early life factors affecting adult social behaviours & dysfunctions**

Chair: **Gordon Harold**, University of Leicester, UK

09:15 – 09:45

● **S5-1 József Haller**, Hungarian Academy of Sciences, HU

Postweaning social isolation and aggression: behavior, emotions and neurobiology *Reactive aggression, behavioral switches, socially isolated sleep alone*

09:45 – 10:15

● **S5-2 Carmen Sandi**, EPFL Lausanne, CH

Neurobiological mechanisms linking early life stress to adult pathological aggression *Neurobiology, cortisol in social interactions, reduced social interactions, puberty stress, not good at reading social experience*

10:15 -10:45

● **S5-3 Gordon Harold**, University of Leicester, UK

Family relationship influences on children's psychopathology: unpacking nature from nurture *depression - no evocative effects, IVF vs Egg Donors, Feiss Correlation, Calandrea et al 2010*

10:45 – 13:00

**Poster session II**

Presentation of posters with even numbers, including lunch

*Anita Thapar, Frances Rise*

Free afternoon

Possibility to attend a guided tour of Regensburg, to go hiking or cycling, or to enjoy a boat tour on the river Danube (all tours can be booked and paid for onsite)

19:30 – 00:00

**Conference Dinner @ Der historische Salzstadl**

Including harp music by *Eva König*

• *6th Parental Brain Summer 2016*  
Montreal - 180

*Francis Lee*

\* *Journal of Neuroendocrinology (end of November)*

Sunday July 14<sup>th</sup>

08:30 – 10:00

**Symposium S6 Paternal behaviour and physiology**

Chair: Katharina Braun, Otto-von-Guericke University, DE

08:30 – 09:00

- **S6-1 Toni Ziegler**, University of Wisconsin, US

*makes after fathers hormones*  
Social and hormone modulators of paternal care in New World marmosets and tamarins

09:00 – 09:30

- **S6-2 Wendy Saltzman**, UC Riverside, US

Interactions between paternal care and fathers stress response

09:30 – 10:00

- **S6-3 Frances Champagne**, Columbia University, US

Paternal-maternal interplay and offspring development

*MDA de Jong 2018*  
*P.45*  
*Biodon Zool*  
*Kelly Lambert*

10:00 – 10:45

**Symposium S7 Hot Topics II**

Chair: Frederic Lévy, INRA-CNRS-Université de Tours, FR

10:00 – 10:15

- **Alaine Keebaugh**, Emory University School of Medicine, US (see P43)

10:15 – 10:30

- **Wibke Jonas**, University of Toronto, CA (see P41)

10:30 – 10:45

- **Dominik Moser**, University of Geneva Hospitals, CH (see P61)

*ACE*

10:45 – 11:15

Coffee Break

11:15 – 12:45

**Symposium S8 Plasticity of the maternal brain during lactation**

Chair: David Slattery, University of Regensburg, DE

11:15 – 11:45

- S8-1 Hiroki Tsukamura**, Nagoya University, JP

Lactational anestrus and kisspeptin signaling

11:45 – 12:15

- S8-2 Liisa Galea**, University of British Columbia, CA

Stressed and Depressed: investigating the role of corticosterone during the postpartum on maternal hippocampal morphology

12:15 – 12:45

- S8-3 Benedetta Leuner**, Ohio State University, US

Hippocampal Neurogenesis during the postpartum period

12:45

Closing remarks

*Placentophagia.*

*Males - response to maternal physiology, hormones / physiology, infant, experience*

*Prolactin (non-linear dose response)*

*Stress and Paternal Behavior - is the stress response altered by fatherhood*

*CORT ↓ pup retrieval*