

# Neuroscience Day 2018

## “Rewarding Neuroscience”

### Tuesday 1 May

**Venue:** Aarhus University, The Lakeside Lecture Theatres, bldg. 1250-53, Bartholins Allé 3, 8000 Aarhus C

#### Program

08.00-08.30 Registration and poster hanging

#### Session 1: *Gambling and Addiction*

**Chair:** Prof Arne Møller, PET Center and CFIN, Dept. of Clinical Medicine, Aarhus University (AU)

08.30-08.35 Welcome to Neuroscience Day by Prof Jens Christian H. Sørensen, CENSE, Dept. of Clinical Medicine and Neurosurgery NK, AU/Aarhus University Hospital (AUH)

08.35-08.55 *“Citius, Altius, Fortius. A brief overview of Ludomani in Denmark: Past, present and future”* by Director Michael Bay Jørsel, Danish Center for Gambling Addiction

08.55-09.10 *“Impulsivity traits and addiction-related behaviors in youth”* by Assoc. Prof Kristine Rømer Thomsen, Centre for Alcohol and Drug Research, AU

09.10-09.25 Oral presentation: *“Impulsivity and compulsivity: the roles of dopamine and serotonin in rewards”* by PhD student Casper Schmidt, PET Center, CFIN, Dept. of Clinical Medicine, AU/AUH

09.25-09.40 *“The role of SorCS2 in BDNF activity and alcohol-seeking behavior”* by Assoc. Prof Simon Glerup, Dept. of Biomedicine, AU

09.40-09.55 *“Making brain health a European priority”* by Tadeusz Hawrot, Senior Policy Officer, European Brain Council

09.55-10.55 *Poster session\* (even numbers to present) with coffee/tea and exhibits*

#### Session 2: *Reward and Punishment*

**Chair:** Prof Søren Dinesen Østergaard, Psychosis Research Unit, Dept. of Clinical Medicine, AU/AUH Risskov

10.55-11.45 **Keynote Lecture:** *“Reward, prediction and brain dopamine”* by 2017 Brain Prize Winner Prof Ray Dolan, University College London, UK. Introduction by Kim Krogsgaard, Director of The Brain Prize

11.45-12.00 *“Foraging decisions in probabilistic environments in flies and mice”* by Assoc. Prof Duda Kvitsiani, DANDRITE, AU

12.00-12.15 Oral presentation: *“Acute and chronic effects of proteasome inhibition on dopamine neurotransmission in minipigs”* by PhD student Thea Lillethorup, Dept. of Nuclear Medicine and PET Center, AUH and Dept. of Clinical Medicine, AU

12.15-12.30 *Group Photo – please gather quickly*

12.30-13.10 *Lunch kindly sponsored by Janvier Labs, exhibits, and poster viewing\**

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### Session 3: Compulsion and Motivation

Chair: Prof. Jens Christian H. Sørensen, Dept. of Clinical Medicine and Neurosurgery NK, AU/AUH

- 13.10-13.40 **Keynote Lecture:** *“Compulsions and behavioural addictions from the lab to the store”* by Dr. Thomas Zoëga Ramsøy, CEO and founder of Neurons Inc.
- 13.40-13.55 Oral presentation: *“The Nordic Long-Term OCD Treatment Study (NordLOTS): Treatment Outcomes and One-year Follow-up of Initial Cognitive Behavioral Therapy Responders”* by Psychologist David Højgaard, Center for Child and Adolescent Psychiatry, AUH Risskov
- 13.55-14.15 *“Play & Horror: Representation of Play in Horror Fiction and Play with Fiction Horror”* by Assoc. Prof Rikke Schubart, Dept. for the Study of Culture, University of Southern Denmark (SDU)
- 14.15-14.35 *“To shop or not to shop - Basic needs or compulsions - The thrills of the shopping kills”*. A panel debate on our drives in shopping, our compulsions, pleasures and thrills. Panel: Assoc. Prof Rikke Schubart (SDU), Dr. Thomas Ramsøy (CEO and founder of Neurons Inc.) and Prof Morten Kringelbach (University of Oxford/AU). Moderator: Prof Jens Christian H. Sørensen.

14.35-15.35 *Poster session\* (odd numbers to present) with coffee/tea and exhibits*

### Session 4: Pleasure and Anhedonia

Chair: Prof Therese Ovesen, Flavour Institute, AU

- 15.35-15.50 Oral presentation: *“Dopaminergic memory modulation by two distinct novelty systems”* by Assoc. Prof Tomonori Takeuchi, Aarhus Institute of Advanced Studies (AIAS), AU
- 15.50-16.20 **Keynote Lecture:** *“Hedonia and eudaimonia: Towards whole-brain models in health and disease”* by Prof Morten Kringelbach, Center for Music in the Brain, Dept. of Clin. Medicine, AU and Dept. of Psychiatry, Oxford University, UK
- 16.20-16.30 Closing remarks and Announcement of the Poster Presentation Prize winners by Christian Steenkjær, President of Neuroscientific Society of Medical Students, AU
- 16.30-17.30 *Networking and free draft beer/soft drinks (voucher) in the foyer*

*\* Posters: William Scharff Auditorium and level 1 (by the main entrance)*

### Brain Prize Winner’s Public lecture at The Lakeside Lecture Theatres, AU

19:00-21:00 *“Reward, prediction and brain dopamine”* by 2017 Brain Prize winner Prof Ray Dolan