

Virtual FENS Forum mini conference

"Behavioural neuroscience for the next decade: Why behaviour matters to brain science"

Saturday 11th July 2020 - 09:00-12:30 (CEST)

The European Brain and Behaviour Society (EBBS), European Behavioural Pharmacology Society (EBPS), European Molecular and Cellular Cognition Society (EMCCS) and International Behavioural and Neural Genetics Society (IBANGS) invite you to our jointly organised mini conference. A variety of topics will be covered, focussing on the role of behaviour in Neuroscience and the translatability of animal models to human traits and psychiatric disorders. There will be four themed sessions with talks from rising stars in our field, followed by Q&A. Our mini conference is a rare event bringing together our four societies, established leaders and early career researchers from the behavioural neuroscience community for a day of amazing science and networking opportunities. Supported by the FENS Forum, our mini conference will take place directly before the opening of the virtual FENS Forum meeting.

Our mini conference is free to attend but we do ask you to register for the mini conference so we can arrange your online access login. You will be able to enjoy both our mini conference and the full FENS Forum programme on Saturday, 11th July 2020. (Registration will be automatically open to all the registered participants of the full FENS Forum).

[Mini conference co-organisers: Francesca Cirulli (EBBS), Wim Crusio (IBANGS), Cathy Fernandes (IBANGS), Andre Fischer (EMCCS), Mathias Schmidt (EBBS) & Louk Vanderschuren (EBPS)]

Programme Overview:

- 09:00-09:50 **Topic 1 (EBBS): Progress in complex behavioural analysis** (Chair: Mathias Schmidt)
1. Spontaneous behavioural synchrony in mouse dyads
Stoyo Karamihalev (Max Planck Institute of Psychiatry, Germany)
 2. Social learning in mice under ecologically-relevant conditions
Ewelina Knapska (Nencki Institute of Experimental Biology, Warsaw, Poland)
 3. Multi-animal pose estimation and tracking with DeepLabCut
Alexander Mathis (École Polytechnique Fédérale de Lausanne, Switzerland)
- 09:50-10:40 **Topic 2 (EMCCS): Molecular and Cellular Mechanisms of Learning and Memory** (Chair: Andre Fischer)
1. Next-generation sequencing technologies in Cognitive Neuroscience
Angel Barco (University Miguel Hernández, Spain)
 2. Identification and characterization of neuronal circuitry underlying taste valence processing in the insular cortex
Haneen Kayyal (University of Haifa, Israel)
 3. The epigenome as a vector of inheritance of acquired behaviours in mammals: Evidence involving the germline
Isabelle Mansuy (University and ETH Zurich, Switzerland)
- 10:40-11:30 **Topic 3 (IBANGS): Connecting Genes to Behaviour** (Chair: Iris Hovatta)
1. Using zebrafish forward genetic screens to identify genes and pathways affecting human behaviour
Caroline Brennan (Queen Mary University of London, U.K.)
 2. The role of the endocannabinoid system as a therapeutic target for Autism Spectrum Disorder: lessons from behavioural studies on genetic mouse models
Susanna Pietropaolo (CNRS, University of Bordeaux, France)
 3. Habituation learning deficits in Drosophila models of intellectual disability and autism spectrum disorders – from molecular mechanisms to clinical applications
Annette Schenck (Radboud University Medical Center, The Netherlands)
- 11:30-12:20 **Topic 4 (EBPS): How pharmacology & neuroscience help us to understand behaviour** (Chair: Louk Vanderschuren)
1. Deconstructing and reconstructing behaviour relevant to mental health disorders: what can psychology offer?
Amy Milton (University of Cambridge, U.K.)
 2. Exploiting individual differences in motivated behaviour to identify predictors of psychopathology
Shelly Flagel (University of Michigan, U.S.A.)
 3. Reverse translation to study drug addiction and identify new brain mechanisms
Marco Venniro (Behavioral Neuroscience Branch, IRP-NIDA, NIH, U.S.A.)
- 12:20-12:30 **Concluding remarks**