

## Stress & Resilience -Exploring New Horizons in Science and Applications

\* All times CEST (Lausanne time)

### Monday 15 April 2024 – Rolex Auditorium

#### 8:30 am. Registration and Networking Coffee

#### 9:00 am. Welcome Address

- **Kathryn Hess Bellwald**, Associate Vice President for Student Affairs and Outreach, EPFL
- **Carmen Sandi**, EPFL
- **Dominique de Quervain**, University of Basel

#### 9:15 am. Symposium I – Stress Mechanisms I

- **Raül Andero**, Autònoma Univ. Barcelona, Spain: *Sex differences in neuronal activity of stress and fear*
- **Chantal Martin Sölch**, University of Fribourg, Switzerland: *Reward-stress interactions as neural substrate for resilience and vulnerability in mental health*
- **Gal Richter-Levin**, Haifa University, Israel: *Towards understanding individual variability in response to stress and trauma*
- **Isabelle Mansuy**, University and ETH Zürich, Switzerland: *The effects of stress across generations: Epigenetic factors in the germline*

#### 10:55 am. Coffee Break

#### 11:25 am. Symposium II – Stress Mechanisms II

- **Matthew Hill**, Calgary University, Canada: *Identification of a stress integratory sub-region of the basolateral amygdala*
- **Vidita Vaidya**, Tata Institute of Fundamental Research, India: *Early life stress and accelerated aging*
- **Ja Wook Koo**, Korea Brain Research Institute, Daegu, Korea: *Circuit specific Glutamatergic signaling regulating susceptibility to chronic stress*

#### 12:45 am. Networking Lunch Break and Poster Session

#### 2.00 pm. Symposium III – Resilience

- **Anne-Laura van Harmelen**, Leiden university, Netherlands: *Social stress buffering as resilience mechanism in young people with CA*
- **Christiaan Vinkers**, VU Amsterdam, Netherlands: *Childhood trauma as a transdiagnostic approach in psychiatry*
- **Rose Bagot**, Montreal University, Canada: *A novel regulator of stress resilience in the prefrontal cortex*
- **Erno Hermans**, Nijmegen University, Netherlands: *Resilience and the dynamic response to acute stress*

#### 3:40 pm. Coffee Break

**4:10 pm. Round Table – A network of networks**

- **Short presentation of the networks by their representatives:**
  - Rebecca Shansky (USA)
  - Hee-Sup Shin (South Korea)
  - Christiaan Vinkers (ECNP)
  - Erno Hermans (Stress-NL)
  - Raffael Kalisch (Intresa)
  - Juan Nacher (Spain)
  - Gal Richter-Levin (Israel)
  - Vidita Vaidya (India)
  - Isabelle Mansuy (Swiss Stress Network)
- **Discussion**
  - Chairs: Carmen Sandi, Dominique de Quervain, Mathias Schmidt

**5.30 pm. Keynote Lecture – Martin Picard**, Columbia University, USA: *Energy, mitochondria, and health*

**6.15 pm. Ceremony for the Global Stress & Resilience Network Pioneer Award – Ron de Kloet & Marian Joëls**

**6.30 pm - 7:45 pm. Poster Session and Networking Aperitif in Honor of the Awardees**

--- End of Day 1 ---

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**Tuesday 16 April 2024 – SV1717 & BM5202 Auditoriums**

**08:30 – 09:45: Steering Committee Meeting (non-public)**

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**09:30 am. Networking Coffee**

**10:00 am. Round Table – Therapeutic advances for stress resilience**

- **Iryna Frankova**, VU Amsterdam, NL. *Scalable mental health interventions for populations affected by war*
- **Christian Gaden Jensen**, DK. *Evidence-based Public Stress Reduction Programs in Denmark. The Open and Calm Model*

**Chair:** Raffael Kalisch (Leibniz Institute for Resilience Research, Germany)

**11:00 am. Awarded Junior Investigators Symposium** \*Supported by Boehringer Ingelheim Stiftung

- **Sarah Mondoloni**, University of Lausanne, Switzerland. *Serotonin plasticity in habenula during emotional contagion protects from negative affective states.*

- **Pratik Chaudhari**, Tata Institute of Fundamental Research, India. *Early life adversity in rodents perturbs hippocampal mitostasis and drives inflammaging in age-dependent manner.*
- **Sara L. Kroll**, University of Zurich, Switzerland. *Peripheral endocannabinoids and its link to social stress in individuals with chronic non-medical prescription opioid use.*
- **Ali Jawaid**, Nencki Institute of Experimental Biology, Poland. *Metabolic and microRNA signatures of adverse childhood experiences (ACE) in humans: Implications for resilience and intergenerational transmission.*
- **Rui Rodrigues**, University of Bordeaux, France. *Countering chronic stress with physical exercise and cannabinoid type 2 receptors: a plasticity-inducing pas de deux.*

### 12:00 am. **Networking Lunch Break and Poster Session (SV Hall)**

#### 1:30 pm. **Symposium IV – Stress and resilience research in Switzerland meets the world – part 1**

- **Birgit Kleim**, University of Zurich, Switzerland: *Stress-related memories in the Spotlight: From autobiographical and trauma to drug memories - Bridging Laboratory Insights to Clinical Interventions*
- **Antje Horsch**, University of Lausanne, Switzerland: *Memory (re)consolidation-based intervention approaches for childbirth trauma*
- **Johannes Gräff**, EPFL, Switzerland: *Recent insights into remote fear memory attenuation*

#### 2:30 pm. **Short talks selected from abstracts**

- **Dorothee Bentz**, University of Basel, Switzerland. *Effects of the Histone Deacetylase Inhibitor Valproic Acid in Combination with Fear Memory Reactivation on the Efficacy of Extinction-Based Therapy for Spider Phobia: A Randomized Controlled Trial.*
- **Simon Chang**, University of Regensburg, Germany. *Spatial- single cell transcriptome co-profiling of chronic stress response in the brain.*
- **Lejla Colic**, Jena University Hospital, Germany. *Brain dynamics after acute stress task: effects of neurometabolites, childhood adversity and recent chronic stress*
- **Greta Visintin**, University of Genoa, Italy. *Traumatic Life Experiences During Specific Critical Periods in Life Lead to Diverse Developmental Trajectories*
- **Thomas Larrieu**, University of Lausanne, Switzerland. *Platelet-induced serum Anxio-16 impairs stress resilience and hippocampal neural precursor activity in anxiety disorder.*
- **Giulia Federica Mancini**, University of Rome, Italy. *Behavioral and molecular profiling of PTSD-like susceptible and resilient lines of rats.*
- **Mohamed-Lyès Kaci**, University of Bordeaux, France. *Optogenetic stimulation of adult-born hippocampal neurons prevents PTSDlike memory deficits induced by prenatal stress in mice.*
- **Solveig Lokhammer**, University of Bergen, Norway. *Distinguishing vulnerability and resilience to posttraumatic stress disorder evaluating traumatic experiences, genetic risk, and electronic health records.*
- **Eva Mikics**, Institute of Experimental Medicine, Hungary. *Neurobehavioural risk factors of vulnerability to post-traumatic stress disorder.*
- **Daniela Calvigioni**, Karolinska Institutet, Sweden. *Esr1+ hypothalamic-habenula neurons shape aversive states and sexually dimorphic stress sensitivity.*

### 3.30 pm. **Coffee Break**

**4:00 pm. Symposium IV – Stress and resilience research in Switzerland meets the world – part 2**

- **Camille Piguet-Nemitz**, University of Geneva, Switzerland: *Impact of mindfulness-based interventions on stress reactivity networks*
- **Ulrike Rimmele**, University of Geneva, Switzerland: *Influence of the stress hormone cortisol on associative memory in humans*

**4.40 pm. Closing Remarks**

- **Carmen Sandi**, EPFL
- **Dominique de Quervain**, University of Basel

**4.50 pm. General Assembly of the Swiss Stress Network (only for Swiss members)**

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