



# **18<sup>™</sup> SUMMER SCHOOL OF NEUROSCIENCE**

Coordinator: Prof. Filippo Drago Scientific Director: Prof. Maurizio Popoli **RESILIENCE AND SUSCEPTIBILITY TO STRESS: A KEY TO UNDERSTANDING PSYCHIATRIC ILLNESS** 

In memory of Bruce McEwen

### **On-line course**

# Catania, Italy - July 12-16, 2021

### PROGRAM

Monday July 12 Stress and connectivity across the brain: large-scale networks		10.30-11.00	Interactive discussion
		11.00-12.30	<b>Talma Hendler</b> (Tel Aviv) Neurobehavioral trajectories of trauma in humans
08.30-09.00	Opening	12.30-13.30	Interactive discussion
09.00-10.30	Filippo Drago, Maurizio Popoli Morning lectures Nuno Sousa (Braga)	15.00-16.30	Afternoon lecture Simona Cabib (Rome) Psychobiology of functional and dysfunctional
10.00.11.00	Stress and brain connectivity - what's new?	10.00.17.00	coping with traumatic experiences
10.30-11.00	Interactive discussion	16.30-17.00	Interactive discussion
11.00-12.30	Erno Hermans (Nijmegen) Stress-related changes in large-scale brain network balance	Thursday July 15 Synaptic stress, hormones and neurometabolism	
12.30-13.30	Interactive discussion		Morning lectures
15.00-16.30	Afternoon lecture Massimo Di Giannantonio (Chieti) Stress and psychopathology: psychoactive	09.00-10.30	Maurizio Popoli (Milan) Hard time for stressed synapses: a matter of resilience or vulnerability
	illegal substances as therapeutic factors	10.30-11.00	Interactive discussion
16.30-17.00 Interactive discussion Tuesday July 13 Gene-environment interaction, early-life stress and epigenetics		11.00-12.30	<b>Carmen Sandi</b> (Lausanne) Stress and the individual: Behavioral, endocrine and neurometabolic factors that define differential stress adaptations
		12.30-13.30	Interactive discussion
09.00-10.30	Morning lectures Francesca Cirulli (Rome) Role of stress and nutrition in fetal programming of brain development and mental health	15.00-16.30	<i>Afternoon lecture</i> <i>Marian Joels</i> (Utrecht) The ups and downs of animal models in stress research
10.30-11.00	Interactive discussion	16.30-17.00	Interactive discussion
11.00-12.30	Elisabeth Binder (Munich) Molecular mechanisms of gene x adversity interactions: implications for risk or resilience to psychiatric disorders	Friday July 16 Stress, comorbidity and optogenetics	
12.30-13.30	Interactive discussion		Morning lectures
15.00-16.30	<i>Afternoon lecture</i> Isabelle Mansuy (Zurich)	09.00-10.30	Andrea Sgoifo (Parma) Stress: the parasympathetic chance for resilience
	How stress experiences leave traces in	10.30-11.00	Interactive discussion
16.30-17.00	descendants: epigenetic mechanisms in the germline Interactive discussion	11.00-12.30	<b>Anna Beyeler</b> (Bordeaux) Scope and limitations of optogenetics in circuit
10.00-17.00			neurosciences
Wednesday July 14		12.30-13.00	Interactive discussion
		13.00-13.30	Closing remarks

## Acute stress and trauma

Morning lectures

09.00-10.30

Johannes Bohacek (Zurich) The acute stress response in the multi-omic era Filippo Drago



For information:

https://www.studioconsulenzafarmacologica.com/resilience-and-susceptibility-to-stress-a-key-to-understanding-psychiatric-illness/

For registration: https://form.jotform.com/CoProm/registration-form-cissn-2021 Organizing Secretariat