

# PhD Day

**Neuroscience**

11 - 12 November, 2019

## PROGRAM

*Aula Ulisse Dini*

(Via del Castelletto, 11)

## **Monday, 11<sup>th</sup> November 2019**

14:30 - **P.I.S.A 2.0: Expanding Genetic Code approaches to introduce post-translational modifications into proteins of interest** (Ottavia Vitaloni - BioSNS)

15:00 - **COntingency TABLES Analysis for scRNAseq data** (Silvia Galfré – SNS/University of Rome)

15:30 - **Brain transcriptome in Autism Spectrum Disorders** (Elisa Ferrari – Data Science/SNS)

16:00 - **Establishment of a neurogenic niche with dentate gyrus identity from human iPSCs** (Keagan Dunville - BioSNS)

16:30 **COFFEE BREAK**

16:40 - **Cortical excitability in a mouse model of PCDH19 Epilepsy** (Didi Lamers – NEST/SNS)

17:10 - **Functional and molecular moderators of neural plasticity** (Aurelia Viglione - BioSNS)

17:40 - **Sensory systems as a biomarker in neurodevelopmental diseases** (Leonardo Lupori - BioSNS)

18:10 - **Metabolic changes influence brain plasticity** (Sara Cornuti - BioSNS)

## **Tuesday, 12<sup>th</sup> November 2019**

09:30 - **Establishing the turquoise killifish *Nothobranchius furzeri* as a model for neurodegeneration** (Sara Bagnoli - BioSNS)

10:00 - **Functional and molecular characterization of Hereditary Sensory and Autonomic Neuropathy type IV (HSAN-IV)** (Paola Pacifico - BioSNS)

10:30 - **fMRI Study of the Role of Central Chemoreflex in Cheyne-Stokes Respiration** (Simone Cauzzo - SSSUP)

11:00 - **Genetics and molecular mechanisms of sudden cardiac death in the young** (Martina Modena - SSSUP)

11:30 **COFFEE BREAK**

11:40 - Lecture by Francesco Raimondi “**Integrative bioinformatics to leverage protein mechanisms in the big data era**”

13:00 **LUNCH BREAK**

14:30 - **Associative memory and synaptic plasticity in the entorhinal cortex** (Francesca Tozzi - BioSNS)

14:50 - **Expanding the SynActive toolbox for in vivo analysis of synaptic engrams** (Mariachiara DiCaprio - BioSNS)

15:10 - “**SynActive**” – a toolbox to label and manipulate the synaptic engram (Ajesh Jacob - BioSNS)

15:40 - **Emerging possibilities of studying in vivo synaptic activity-dependent changes** (Andrea Faraone - BioSNS)

16:10 - **Final remarks and winner announcement**