



Consiglio Nazionale delle Ricerche
Istituto di Biologia Cellulare e Neurobiologia
Institute of Cell Biology and Neurobiology
CNR-IBCN

AVVISO DI SEMINARIO
SEMINAR ANNOUNCEMENT

**Molecular Control of
Brain Development and Wiring**

Prof. Claudia Bagni

Director, Department of Fundamental Neurosciences

Faculty of Biology and Medicine

University of Lausanne, Switzerland

26 October 2018, 14:30 – 16:00

Monterotondo CNR Seminar Room, Building 21

Highlights: Autism (ASD) and schizophrenia (SCZ) are neurodevelopmental disorders characterized by defects in brain connectivity. Copy-number variants of the *CYFIP1* gene have been linked to neurodevelopmental disorders, such as ASD and SCZ. *CYFIP1* has a dual role, regulating actin polymerization and protein synthesis, two critical processes required a correct brain development. Here, we show that *Cyfp1* heterozygous mice present pre and post-synaptic deficits that lead to long lasting impairments in brain activity and behavior. The observed affected molecular and cellular mechanisms might explain *CYFIP1* genetic association to human neurodevelopmental disorders

Host: Dott. Marcello Raspa