



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**

**27 July 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: Prof. Fabio Mammano**