PHD in NEUROSCIENCE

PhD School of Life and Health Sciences
University of Turin

SEMINARS *in* NEUROSCIENCE

2017-18

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Weill Cornell Medicine, Cornell University, New York, USA

Host: Emilio Carbone

Linking L-type Ca^{2+} channel mechanisms to behavior: insight into neuropsychiatric-related conditions

Recent human genome-wide association studies have raised tremendous interest and excitement for a role of brain voltage-gated $Ca_v1.2$ (*CACNA1C*) L-type Ca^{2+} channels in neuropsychiatric and neurodevelopmental disorders. A major challenge lies in translating the human genetic findings to pathological mechanisms that are translatable back to the patient.

This is particularly important when studying disorders that are clinically behavior-based disorders. Animal models can serve as a useful tool to bridge the gap between gene and behavior.

In my talk, I will highlight my lab's recent work on how dysregulated brain $Ca_V1.2$ channel signaling can impact behavior by altering molecular, cellular and neural circuit-level mechanisms.

TUESDAY OCTOBER 23, 2018 FROM 1 PM

Seminar Room, Centro di Biotecnologie Molecolari (MBC) Via Nizza 52 Torino.