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Dipartimento di Biologia e Biotecnologie "Lazzaro Spallanzani"

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SEMINAR

Emotions in Synapses: Towards Enviromimetic Drugs for Affective Disorders

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Aula C6, Engineering Building, Polo Cravino

Speaker

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Lorenzo More is a Senior Lecturer in Neuroscience in the School of Pharmacy and Biomedical Sciences at the University of Lancashire, U.K.
His main research revolves about the molecular mechanisms of the CNS adaptation to the environment.

A major question in the field of synaptic physiology revolves around how the valence (positive-negative) of the environmental stimulation is encoded at the synaptic level in the brain.
I am investigating the hypothesis that the transcription factor CREB plays a major role in differently shaping the synaptic density.
CREB is the joint target of multiple molecular pathways whose components differentially interact on CREB phosphorylation sites. This integration provides information to neuronal synapses on the type of receptors subunit to transcribe. This may constitute a molecular mechanism that provide an encoding feature for valence.

Host: Dr Ilaria Maria Morella