

## Call Dottorato

Description: RNA methylation is an important determinant for mRNA stability, localization and translation. In the present project we aim at understanding the role of mRNA m6A methylation at dendritic and synaptic level during epilepsy. Specifically, we hypothesize that m6A methylation is a key regulator of local protein synthesis and synaptic organization in conditions of aberrant plasticity induced by seizures. These aspects will be investigated in different models of epilepsy resulting from impaired GABAergic inhibition. The ideal candidate will have strong background in cellular and circuit neuroscience and will be familiar with techniques such as biochemistry, imaging, and optogenetics.