



**ERA-NET NEURON Postdoc Position
at the European Institute of Oncology
IFOM-IEO-Campus, Milan - Italy**

DIRECT EPIGENOME INTERROGATION DURING NEURAL DEVELOPMENT

The laboratory of Stem Cell Epigenetics, headed by ERC Investigator Giuseppe Testa, invites applications for a ERA-NET NEURON funded postdoctoral position on the epigenomic basis of cortical neuronal fate. Applicants with a solid background in neurobiology/chromatin are particularly encouraged.

The regulation of food intake is a major field of inquiry in biomedicine due to its critical impact on health, as most evident in the pandemic rise of obesity that constitutes a main risk factor for cancer development. Strong evidence indicates that epigenetic phenomena regulate both nutrient metabolism and feeding behavior, including neural diseases such as compulsive overeating and food addiction. This project is part of the research network 'FOODforTHOUGHT: The epigenomics of eating disorders', which was awarded within the ERA-NET NEURON Program on "Novel methods and approaches towards the understanding of brain diseases". Within the strong focus of our lab on the epigenetic mechanisms underlying neural development, this postdoctoral project pioneers the development of genetically-encoded tools that allow the direct interrogation of epigenomes from defined populations of neural stem cells and neurons during mouse corticogenesis. The successful candidate will validate the functional read-out of this approach by harnessing a unique panel of already available murine strains that allow to modulate selected chromatin modifiers and define their impact on corticogenesis through the elucidation of their transcriptomic and epigenomic programs.

Requirements: PhD in Molecular Biology, Genetics or Biochemistry. Previous experience in neurobiology, chromatin biology, mouse genetics, or stem cell biology is required. We are looking for a highly motivated scientist who wishes to join an interactive team at the cutting edge of epigenetics research (Fragola et al. *PLoS Genetics*, 2013; Burgold et al. *Cell Reports*, 2012; Testa *Bioessays*, 2011; Campaner et al., *Molecular Cell*, 2011) in one of the leading European research institutes.

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