

## **Alessandro PORRO – CV**

Alessandro Porro is currently a postdoctoral researcher at the Department of Biosciences, University of Milan, working under the supervision of Professor Anna Moroni. His research focuses on elucidating the molecular mechanisms of ion channel gating, with specialized expertise in the structure and function of membrane proteins and macromolecular interactions. Alessandro has developed substantial expertise in a variety of techniques throughout his career, with particular proficiency in Patch Clamp electrophysiology on mammalian cells. During his Ph.D. and postdoctoral studies, Alessandro uncovered novel mechanisms underlying cAMP regulation in HCN channels, as well as their interactions with the neuronal  $\beta$ -subunit, TRIP8b. The expertise he gained from this work enabled him to make significant contributions to the biophysical study of HCN channel variants associated with epilepsy and cardiac dysfunctions. Currently, he is contributing to the research of HCN subtype selective regulators that can be used in new therapeutic strategies for the treatment of HCN-related diseases.