

PERSONAL INFORMATION

Alessandro Porro



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Sex male | Date of birth 25/12/1990 | Nationality Italian

My current research is mostly focused on the gating mechanism and the structure-function relationship of HCN channels as well as on their regulation induced by the binding with regulatory subunits. I graduated with a bachelor degree in Biological Sciences and a master degree in “Biology applied to research in biomedicine” at University of Milan, Italy. I am currently a PhD student in cellular and molecular biology in Anna Moroni’s lab where I am gaining expertise in electrophysiology, molecular biology and microscopy techniques.

EDUCATION AND TRAINING

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| Sept 2015 – now | PhD student in “molecular and cellular biology”
Moroni’s lab – Department of biosciences – University of Milan |
| Sept 2013 – Sept 2015 | Master degree in “Biology Applied to Research in Biomedicine”
University of Milan |
| Sept 2009 – Feb 2013 | Bachelor degree in “Biological sciences” |

ADDITIONAL INFORMATION

- Publications**
- Saponaro A., Cantini F, **Porro A**, Bucchi A, DiFrancesco D, Maione V, Donadoni C, Introini B, Mesirca P, Mangoni M, Thiel G, Banci L, Santoro B, Moroni A.
Structure-guided design of a TRIP8b delivery synthetic peptide for orthogonal control of HCN channels
eLIFE, accepted on 06-2018
- Marini C, **Porro A**, Rastetter A, Dalle C, Rivolta I, Bauer D, Nava C, Parrini E, Mei D, Mercer C, Chamber C, Coubes C, Thevenon J, Kuenz P, Julia S, Pasquier L, Dubourg C, Carrè W, Rosati A, Melani F, Pisano T, Giardino M, Scheidecker S, Santos M, Figueiroa S, Garrido C, Fusco C, Frattini D, Spagnoli C, Binda A, Granata T, Ragona F, Freri E, Franceschetti S, Canafoglia L, Milanese R, Barbuti A, DiFrancesco D, LeGuern E, Guerrini R, Santoro B, Hamacher K, Thiel G, Moroni A, DiFrancesco J, Depienne C
HCN1 mutation spectrum: from neonatal epileptic encephalopathy to benign generalized epilepsy and beyond
Submitted to Brain – under review
- Servatius H, **Porro A**, Pless SA, Schaller A, Asatryan B, Tanner H, de Marchi SF, Roten L, Seiler J, Haeberlin A, Baldinger SH, Noti F, Lam A, Fuhrer J, Moroni A, Medeiros-Domingo A
A Phenotypic Spectrum of HCN4 Mutations: A Clinical Case.
Circulation: Genomic and Precision Medicine, vol 11 no. 2 e002033
- Saponaro A., **Porro A**, Chaves-Sanjuan A., Nardini M., Rauh O., Thiel G. & Moroni A.
Fusicoccin Activates KAT1 Channels by Stabilizing their Interaction with 14-3-3 Proteins.
The Plant Cell, vol. 29 no.10 2570-2580

Conferences and courses

- Dec 2017: attendance at the 4th International Workshop on Technologies for Optogenetics and Neurophotonics Optogen2017 course with poster “An optogenetic tool for the regulation of HCN channels”
- Mag 2017: attendance at FEBS/EMBO lecture course on “Ion Channels and transporters: with poster” Functional and molecular characterization of the cAMP and TRIP8b dual regulation of HCN channels” and oral presentation
- Feb 2017: attendance at Biophysical Society – 61st annual meeting with poster “HCN channel modulation: the competition between cAMP and TRIP8b explained in molecular details”
- Feb 2016: attendance at Gordon Research Conference - Ligand Recognition & Molecular Gating with poster “The molecular basis and structural insights into the interaction between KAT1 channel and their regulatory protein 14-3-3”
- Sep 2015: attendance at Joint congress SIBV - SIGA with poster “The molecular basis for the interaction between KAT1 channels and their regulatory protein 14-3-3”
- Feb 2015: attendance at XVIII Scientific Convention Telethon with poster “Structural and functional studies of HCN1 channel mutations causing early infantile epileptic encephalopathy”