IL RETTORE

- Visto il Decreto Rettoriale n. 3783 del 19/09/2022, con il quale è stato indetto il concorso, per titoli e colloquio, per il conferimento di n. 1 borsa di ricerca post laurea di tipo starting della durata di 3 mesi, eventualmente rinnovabile, dell’importo di € 4.062,00 (quattromilasezzantadue/00), per lo svolgimento di una ricerca sul tema: “ASD-genesis: from latent synaptopathy to overt dysfunctions in multisensory social processing” presso il DIMES dell’Università degli Studi di Genova;

- Visto il Decreto Rettoriale n. 4387 del 13/10/2022 con il quale è stata costituita la Commissione giudicatrice per il conferimento della suddetta borsa di ricerca;

- Visto il verbale della Commissione giudicatrice del concorso in parola, riunitasi in data 18/10/2022;

- Constatata la regolarità della procedura seguita

DECRETA

Art. 1

Sono approvati gli atti del concorso di cui in premessa e la seguente graduatoria di merito:

1. Dott.ssa Sara Pepe punti 95/100

Sotto condizione dell’accertamento dei requisiti di cui al bando, è dichiarata vincitrice del concorso in parola la Dott.ssa Sara Pepe.

Genova, 21.10.2022

IL RETTORE

Firmato digitalmente da:
FEDERICO DELFINO
Università degli Studi di Genova
Firmato il: 20-10-2022 14:39:28
Seriale certificato: 818306
Valido dal 03-11-2020 al 03-11-2023

Responsabile del procedimento: Cristina Tubino
Area Internazionalizzazione, Ricerca e Terza Missione
Servizio Ricerca
Pepe Sara, Ph.D student

Address: [REDACTED]
Mobile phone: [REDACTED]
E-mail: [REDACTED]

SUMMARY

Medical/farmaceutical biotechnologist with background in cellular and molecular neurobiology. Expertise in synaptic physiology and in preclinical research in mouse models of neurodevelopmental disorders.

PROFESSIONAL EXPERIENCE

- **November 2019 – present (Ph.D student)**
  Department of Experimental Medicine (DIMES), University of Genoa, Genoa, Italy.
  PhD course in Neuroscience – curriculum: Clinical and experimental neurosciences (DINOOGMI, University of Genoa, Italy). Supervisor: Prof.ssa Anna Fassio.
  Project title: “Role of the epilepsy genes ATP6V1A and TBC1D24 in pH homeostasis and autophagy progression”.

- **April 2019 – October 2019 (Fellow)**
  Center for Synaptic Neuroscience and Technology, Italian Institute of Technology (NSYN-LIT), Genoa, Italy.
  Fellowship in “Neuroscience and Brain Technologies”. Supervisors: Prof. Fabio Benfenati
  Project: “Measuring the functionality of the endocytic pathway in neuronal cells by using a fluorescent probe as a sensor of intraorganellar pH”.

- **March 2018 – March 2019 (M.Sc. Student)**
  Department of Experimental Medicine (DIMES), University of Genoa, Genoa, Italy.
  Experimental thesis in Neurophysiology. Supervisor: Prof.ssa Anna Fassio.

- **Sept 2015 – Dec 2016 (B.Sc. Student)**
  Department of Experimental Medicine (DIMES), University of Genoa, Genoa, Italy.
  Experimental thesis in Neurophysiology. Supervisor: Prof.ssa Anna fassio.
  Project title: “Role of TBC1D24 into the axonal and dendritic specification”.

EDUCATION

- **2016 – 2019**: Master's degree in Medical-pharmaceutical biotechnology with the grades 110/110 *cum laude* at the University of Genoa, Genoa, Italy.
• 2013 – 2016: Bachelor’s degree in Biotechnology with the grades 110/110 cum laude at the University of Genoa, Genoa, Italy.
• 2008 – 2013: High School Diploma with the grades 100/100 at Liceo Scientifico – indirizzo linguistico “A.Righi” of Cesena, Italy.

TECHNICAL SKILLS
• **Cell cultures**: dissections for primary mouse and rat cultures (neurons and astrocytes), maintenance of mouse/rat cortical and hippocampal neurons and cell lines (HEK293T, fibroblasts and astrocytes), lentiviral production, lentiviral transduction of neurons and cell lines, transfection of neurons and cell lines by calcium phosphate, nucleofection and liposomes;
• **Molecular and cellular biology**: purification and analysis of protein samples by SDS PAGE and western blot, pulldown, co-immunoprecipitation, subcellular fractionation, DNA extraction, DNA amplification (maxi and miniprep, PCR) and purification, restriction enzymes digestion, agarose gel electrophoresis;
• **Microscopy and Live imaging experiments**: immunofluorescence stainings (estimation of protein expression, localization and colocalization), morphological analysis of neurons (sholl analysis, synaptic protein expression and synapse counting), lysosomal functional assays (Lysotracker and Lysosensor evaluation), synaptic vesicles cycling using synaptophysin-phluorin tool. Expertise in light, epifluorescence and confocal microscopy;
• **Animal manipulation**: expertise in mouse handling and genotyping with murine models of synaptopathies.

SOFT SKILLS
• **Mentorship skills**: supervising of 3 undergraduate students for the preparation of the experimental thesis in biotechnology and biology;
• **Collaboration skills**: collaboration with internal colleagueas (DIMES and DIBRIS, University of Genoa, Genoa, Italy; Center for Synaptic Neuroscience and Technology, Italian Institute of Technology, Genoa, Italy), collaboration with external scientists nationally (Children’s Hospital “A. Meyer”, University of Florence, Florence, Italy) and internationally (MRC Harwell Institute, Harwell Campus, Oxfordshire, UK);
• **Project management skills**: following and planning more projects in the same time, ability to work under pressure and to complete tight deadlines.

SOFTWARE SKILLS
• Data analysis & statistical software (MS Excel, GraphPad Prism)
• Graphic software (ImageJ, ImageLab, Adobe Photoshop)
• Molecular biology softwares (SnapGene. ApE)
LANGUAGE SKILLS
Italian: Mother-tongue
English: Fluent (written and spoken)
French: Good (written and spoken)
Spanish: Fluent (written and spoken)

CONFERENCES and POSTERS
1. “TBC1D24 interacts with vATPase and regulates pH homeostasis and autophagy in neurons” **ORAL PRESENTATION** at SIF YRP 2022. 13-15 July 2022. Bertinoro, Italy
5. **Pepe S.**, Maragliano L., Conti V., Mei D., Benfenati F., Guerrini R. and Fassio A. “Structure/function study on de novo mutations in ATP6V1A causing developmental encephalopathy with epilepsy.” **POSTER PRESENTATION** at BraYn Conference. 25-26 November 2020 (web conference);

PUBLICATIONS