Tiziana Romanazzi

PERSONAL INFORMATIONS

Date and Place of birth: 01 August 1994, Foggia (FG), Italy
Nationality: Italian
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I am a PhD student in Experimental and Translational Medicine with a background in biotechnology, ready to increase knowledges and acquire new skills. Curiosity and interest in all that is unknown have always moved me to undertake a scientific career. Enthusiasm, spirit of initiative and dynamism have always pushed me to further deepen my understanding of biological concepts and apply them in different socio-cultural contexts.

RESEARCH EXPERIENCE:

January 2022 – July 2022: Visting Ph.D. Student at University of Alabama at Birmingham – Department of Surgery.
Studies on brain physiology, mechanism and circuits related to reward and addiction through electrophysiological and behavioral approaches both in mice and drosophila melanogaster. PI: Aurelio GalII

November 2019 to date: PhD Student in Experimental and Translational Medicine
PhD Student at University of Insubria - Department of Biotechnology and Life Sciences (DBSV) - Laboratory of Cellular and Molecular Physiology, Varese, Italy.
Project's aim is structural and functional characterization of membrane channels, receptors, and transporters heterologously expressed in *Xenopus laevis* oocytes. Transmembrane protein will be studied as drug target and tools for drug delivery of old and new molecules. Protein expression is characterized by electrophysiological protocols, and molecular biology is the main technique used to prepare wild type, chimeric and mutated cDNAs for heterologous expression. PI: Elena Bossi.

March 2018 to March 2019: Internship at Center for Nanomedicine and Tissue Engineering A.O. Ospedale Niguarda, Milan, Italy to obtain the **Master's degree**.
Project's title: "*Emerging application of self-assembling peptides conjugate with Genipin: biomimetic and resilient scaffolds for tissue engineering applications*".
Project's aim is studying new sequences of self-assembling peptides functionalized with bioactive motifs at N-terminal and crosslinked using Genipin agent to enhance mechanical properties and to create new natural scaffolds that mimic the extracellular matrix. Functionalized peptides have been synthetized through Solid Phase Peptide Synthesis, then rheological tests have been carried to study the mechanical properties and ThT assay fluorescence was performed to establish the degree of β-structure. PI: Fabrizio Gelain.

September 2016 to November 2017: Internship at Istituto Biomembrane e Bioenergetica - CNR Bari, Italy to obtain the **Bachelor's degree.**
Project's title:*"HOG1 e RTG2 nella resistenza alla morte cellulare programmata indotta da acido acetico in cellule di Saccharomyces cerevisiae".*
Project's aim is understanding the role of HOG1 and RTG2 genes during regulation of programmed cell dead induced by acetic acid stress analysing DNA fragmentation with Tunnel test and through ROS quantification in *Saccharomyces cerevisiae* cells. PI: Nicoletta Guaragnella.

EDUCATION:

October 2016 to March 2019: Master's Degree: Medical Biotechnology and Molecular Medicine at Università degli Studi di Bari "A. Moro", Italy.
Grade: **110/110 with Honours**

October 2013 to December 2016: Bachelor's Degree: Medical and Pharmaceutical Biotechnology at Università degli Studi di Bari "A. Moro", Italy.
Grade: **104/110**

September 2008 to July 2013: High School Diploma at Liceo Scientifico Enrico Fermi, Bari (BA), Italy
Grade: **96/100**

SCIENTIFIC PUBLICATION:

- "Superior mechanical and optical properties of a heterogeneous library of cross-linked biomimetic self-assembling peptides". Raffaele Pugliese, Luca Moretti, Margherita Maiuri, **Tiziana Romanazzi**, Giulio Cerullo, Fabrizio Gelain. Materials & Design, Volume 194, September 2020. https://doi.org/10.1016/j.matdes.2020.108901
- "The role of LRRK2 in the modulation of the glutamate transporter EAAT2 in Parkinson's disease". Di Iacovo Angela, **Romanazzi Tiziana**, Cinquetti Raffaella, Iovino Ludovica, Civiero Laura, Bossi Elena, Roseti Cristina. (2021). The FASEB Journal, 35. https://doi.org/10.1096/fasebj.2021.35.S1.05221
- "The Lepidopteran KAAT1 and CAATCH1: Orthologs to Understand Structure–Function Relationships in Mammalian SLC6 Transporters". Michela Castagna, Raffaella Cinquetti, Tiziano Verri, Francesca Vacca, Matteo Giovanola, Amilcare Barca, **Tiziana Romanazzi**, Cristina Roseti, Alessandra Galli, Elena Bossi Neurochem Res (2021). https://doi.org/10.1007/s11064-021-03410-1
- "Bile Acids Gate Dopamine Transporter Mediated Currents". **Romanazzi Tiziana**, Zanella Daniele, Cheng Mary Hongying, Smith Behrgen, Carter Angela M., Galli Aurelio, Bahar Ivet, Bossi Elena. (December 2021). Frontiers in Chemistry, Chemical Biology. https://doi.org/10.3389/fchem.2021.753990

ORAL PRESENTATION:

- 16 September 2020: Scientific Day of Center for research in Neuroscience: "Obeticholic acid effect on dopamine transporter expressed in *Xenopus laevis* oocytes".
- 8 July 2021: Scientific Day of Center for research in Neuroscience: "The pharmacological effect of the obeticholic acid on dopamine transporter expressed in *Xenopus laevis* oocytes".
- 29-31 July 2021: 14th Annual Meeting of Young Researchers in Physiology: "The Obeticholic acid interacts with dopamine transporter heterologously expressed in *Xenopus laevis* oocytes".
- 7-9 September 2021: 71st SIF National Congress of The Italian Society of Physiology - Milan (Online): "The interaction of bile acids with dopamine transporter heterologously expressed in *Xenopus laevis* oocytes".
- 12 October 2021: European Young Physiologists' Symposium 2021 - FEPS European Physiology Day (virtual meeting): "Bile acids exert a direct effect on dopamine transporter mediated currents".

POSTER PRESENTATION:

- 20-22 October 2021: 4th Brainstorming Research Assembly for Young Neuroscientists: "Bile acids directly act on the dopamine transporter mediated currents".

AWARDS:

- European Young Physiologists' Symposium EYPS Best Oral Communication Award (3rd): "Bile acids exert a direct effect on dopamine transporter mediated currents"

TECHNICAL SKILLS AND COMPETENCE:

- Molecular biology: PCR, DNA extraction, Electrophoresis, Enzyme restriction, Western Blot, Immunohistochemistry
- *Escherichia coli* culture, *Saccharomyces cerevisiae* culture, *Xenopus laevis* oocytes culture, *Drosophila melanogaster* maintenance
- Solid Phase Peptide Synthesis, HPLC, Rheology, FT-IR, LCMS
- Two Electrode Voltage Clamp, Micro-transplantation of tissue membrane, Amperometry, Patch clamp
- Confocal and fluorescence microscopy

LANGUAGE SKILLS:

- Mother tongue: Italian
- Other languages: English (certificate B2 Level)

COMPUTER SKILLS:

- Office Package
- Basic Bioinformatics tools; SnapGene
- Origin e Graphpad Prism
- Clampex, Clampfit, WinWCP

OTHER SKILLS AND INTERESTS:

- Exceptional communication and networking skills
- Successful working in a team environment, as well as independently
- The ability to work under pressure and multi-task
- The ability to follow instructions and deliver quality results
- Excellent attention to detail
- Co-supervisor for Biology and Biotechnology thesis
- Tutor in Cellular physiology for master's course "Physiology of cellular communication"
- Tutor in Bioinformatic Laboratory for High School students during “Piano Nazionale Lauree Scientifiche 2020/2023”
- Young member of Società Italiana di Fisiologia (SIF)
- Member of International Transmembrane Transporter Society (ITTS)
- University credits acquired through training in psyco-pedagogical disciplines and teaching methodologies and technologies
- Voluntary activities with children, disabled people; voluntary activities in the lands taken from mafia and managed by social cooperatives of Libera Terra association
- Author of online articles for a scientific blog: dietrolascienza.wordpress.com
- Passionate of art, music, travelling.
- Passionate of swimming, sailing, aerial silks and hoop and yoga
- Certificate BLSD – Basic Life Support and Defibrillation
- Car Driving license

In compliance with the GDPR and the Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorize you to use and process my personal details contained in this document.