

Stefania Vernazza

Role fixed-term Researcher

EDUCATION AND TRAINING

06/2017

State examination and professional qualification, University of Genoa.

Registered since 2017 on the Professional Register of Biologists

06/04/2017

Ph.D. in Experimental Medicine, University of Genoa. Thesis defense "Studio degli effetti biologici derivanti dall'associazione di Nanoemulsioni di lipoperossidi e Cisplatino, su una linea cellulare umana di adenocarcinoma del colon (DLD1)".

10/10/2012

Master's degree in molecular and health biology (LM-6), University of Genoa

15/03/2011

Bachelor's degree in biological sciences, curriculum: cellular and molecular biology (CLASSE 12), University of Genoa

2003

High school diploma at O. Grassi High School, Savona

[Example: university degree, high school diploma]

PROFESSIONAL HISTORY

01/12/2021- Current

Full-time fixed-term Researcher of General Pathology, University of Genoa

The main lines of research are the following:

- To study the mechanisms underlying glaucoma pathogenesis and to investigate the mechanisms of mineral fiber-induced toxicity by taking advantage of advanced Human-based 3D culture systems
- To investigate the mechanisms of drug resistance in cancer cells

Workplace: Department of Experimental Medicine (DIMES)- University of Genoa Via L.B. Alberti 2, 16143 Genoa (Ge).

01/01/2021 – 30/11/2021

Fixed-term research contract with IRCCS G.B. BIETTI Foundation (IRCCS Fondazione G.B. Bietti per lo studio e la ricerca in oftalmologia), Rome

Participant in the research team involved in the project "Analisi di biomarkers associati alla patogenesi e alla progressione del glaucoma" of the Glaucoma Operating Unit at IRCCS Bietti Foundation. Workplace: Department of Experimental Medicine (DIMES)-General Pathology section, University of Genoa, Via L.B. Alberti 2, 16143 Genoa (Ge).

11/11/2019 – 30/09/2021

Fixed-term contract with OMIKRON ITALIA SRL

Research and consultancy activities for the study "3D-trabecular meshwork and neuron models to evaluate the biological potential of OMK1 eye drops in glaucoma therapy". Workplace: Department of Experimental Medicine (DIMES)- University of Genoa Via L.B. Alberti 2, 16143 Genoa (Ge).

01/01/2018 – 31/12/2020

Co.Co.Co. (Artt. 2222 e segg. del Codice Civile) with IRCCS G.B. BIETTI Foundation (IRCCS Fondazione G.B. Bietti per lo studio e la ricerca in oftalmologia), Rome

Scientific research collaboration in the project "Study of the molecular basis responsible for the pathogenesis and progression of glaucomatous neurodegeneration", glaucoma operating unit. Workplace: Department of Experimental Medicine (DIMES)- University of Genoa Via L.B. Alberti 2, 16143 Genoa (Ge).

01/01/2019-30/09/2020

Fixed-term contract with Eyepharm Spa

Research and consultancy activities for the study "3D model of trabecular meshwork for evaluation of DRAIN Drops biological potential in glaucoma treatment"

Workplace: Department of Experimental Medicine (DIMES)- University of Genoa Via L.B. Alberti 2, 16143 Genoa (Ge).

01/06/2017 – 30/11/2017

Research fellowship - University of Genoa

Research fellowship on "Alternative/substitute methods for animal testing". Workplace: Department of Experimental Medicine (DIMES)- University of Genoa Via L.B. Alberti 2, 16143 Genoa (Ge).

[Previous positions held at this or other universities, etc]

EXPERIENCE

[The following are subsections]

MAIN SEMINARS

14/07/2023 "An advanced in vitro 3D platform as a useful tool to study molecular change underlying glaucoma pathogenesis". 2nd Workshop Ophthalmic Formulations: Challenges and Advances. Pisa, Italia. 16-17-18/06/2022. "Modello 3D di glaucoma". Società Italiana Glaucoma (SIGLA)_ XVII Congresso Nazionale. Napoli, Italia.

10/09/2020 "Un modello di glaucoma in vitro innovativo come strumento per testare sostanze terapeutiche per il glaucoma" - Congresso internazionale AISG. Roma, Italia.

10-13/10/2019 "An innovative in vitro physiological relevant model as a tool to test therapeutic strategies for glaucoma"- 22nd European Congress on Alternatives to Animal Testing. Linz, Austria.

05/10/2019 "Molecular effect of a polyphenolic solution (Drain©) on an ex vivo model of experimental glaucoma"- Congresso internazionale "Dallo stress ossidativo alla morte delle cellule ganglionari retiniche". Milano, Italia.

07/03/2019 "Variazione delle risposte omeostatiche tra cellule trabecolari umane immerse in una matrice 3D, sottoposte a condizioni dinamiche di coltura" - Congresso internazionale AISG. Torino, Italia.

EDITORSHIP OR PARTICIPATION IN EDITORIAL BOARDS OF JOURNALS, PUBLISHING SERIES, ENCYCLOPAEDIAS AND TREATISES

Co-guest editor for a special issue in the Journal of Clinical Medicine (2021)

Co-guest editor for a special issue on Life (2022)

Co-guest editor for a special issue on Cells (2024)

PRIZES AND ACCOLADES FOR SCIENTIFIC ACTIVITY, INCLUDING MEMBERSHIP OF ACADEMIES

2018. Third place at Smart Cup Liguria (sponsored by Regione Liguria, Finanziaria ligure per lo sviluppo economico-Filse-, and the University of Genoa), which promotes and supports innovative and sustainable business ideas, awarded the business idea "Da scarto a risorsa: il chitosano" proposed by Dr. Stefania Vernazza, Dr. Elena Della Casa, Prof. Laura Pastorino, and Dr. Donatella Di Lisa with a prize of 5.500 €.

2014. "The Best Young Scientist Poster Presentation" award granted 500€ by the European Society of Toxicology In Vitro 2014 Congress and Elsevier (ESTIV; EgmondAanZee, Olanda).

2014. Grant from CellTox to attend The European Society of Toxicology In Vitro 2014 International Conference in EgmondAanZee, Olanda (1000 €)

OTHER EXPERIENCES

Co-Responsible for the project "Sviluppo di un modello in vitro 3D fisiologicamente rilevante di tessuto alveolare umano per la valutazione di biomarcatori specifici del potenziale infiammatorio e cancerogeno, associati all'inhalazione di agenti tossici". **Funding organization:** Ministry of Health- Reference to the Gazette Official N° 233 of 29/09/2021 (decree of 25/06/2021). Total fund provided: 106.666,00 €.

Co-Responsible for the project "Implementazione di una piattaforma millifluidica multiorgano in vitro 3D, fisiologicamente altamente rilevante, basata sull'utilizzo di materiale biologico di derivazione umana per identificare gli eventi chiave alla base della patogenesi del glaucoma e per lo screening di strategie terapeutiche neuro protettive". **Funding organization:** Ministry of Health- Reference to the Gazette Official N° 233 of 29/09/2021 (decree of 25/06/2021). Total fund provided: 106.666,00 €.

Participant in Genoa Research Unit for the PRIN project "Sediments Eco-recycling Exploitation, Development, and Sustainability [SEEDS]"

