

PERSONAL INFORMATION

Lorenzo Ciano



Date of birth 1 | Nationality

WORK EXPERIENCE

Nov. 2024 – Present**Postdoctoral fellow**

at the Italian Institute of Technology IIT, Genova (Italy) continuing the work of my PhD.

Nov.2020- Oct. 2023**PhD**

Supervisor: Dr. Caterina Michetti, Dr. Fabio Benfenati

Italian Institute of Technology IIT - University of Genoa

- My work at IIT aims to study the relationship between ASD and epilepsy in Synapsin II (Syn II) knockout mice. The project aims to better understand the impact of neuronal hyperexcitability on social behaviour and identify sensory stimulations responsible for the seizure induction and/or inhibition.
- Hard skills acquired: Immunostaining, Western Blot, Immunohistochemistry, Confocal Imaging, ImageJ User, Matlab User, GraphPad Prism User, Tutor of Master and Bachelor Students.

Sept.2020 – Oct. 2020**Fellow**

Supervisor: Dr. Caterina Michetti, Dr. Fabio Benfenati

Italian Institute of Technology IIT - University of Genoa

Sept.2018 – Jan.2020**Internship in Development Psychobiology**

Supervisor: Dr. Francesca Romana D'amato

IBBC-CNR Monterotondo, Rome, Italy.

- My work at IBBC-CNR was focused on behaviour and C57BL/6J strain manipulation.
- Hard skills acquired: CPP (conditioned place preference); Elevated Plus Maze; Open Field; Repeated Cross Fostering (RCF); Y-maze; T-maze; Water Plus Maze; Rotarod Test; Perfusion; Plethysmograph; RNA extraction.

Sept.2017 - Jul. 2018**Internship in Ecology**

Supervisor: Dr. Lorenzo Tancioni

Tor Vergata University, Rome, Italy.

- My work was focused on Sampling protocol and analysis of fish fauna in a closed environment

Oct. 2016 – Dec. 2018**Winner of part-time student**

Tor Vergata University, Rome, Italy.

- University program that allows students with academic merit to work part-time within the univers

EDUCATION AND TRAINING

Nov. 2020 – Nov. 2023 **PhD in neuroscienze e neurotecnologia**

Supervisor: Dr. Caterina Michetti, Dr. Fabio Benfenati
Italian Institute of Technology IIT - University of Genoa

- Dec. 2021 ZEBRAFISH COME ORGANISMO MODELLO: APPROCCI SPERIMENTALI IN VITRO E IN VIVO NELLA RICERCA SCIENTIFICA
Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna izzsler
- Nov. 2021 ELEMENTI BASE PER L'APPROCCIO DEI RICERCATORI ALL'UTILIZZO DEGLI ANIMALI AI FINI SCIENTIFICI
Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna izzsler
- Nov. 2021 CORSO BASE SULL'UTILIZZO DI ORGANISMI ACQUATICI A FINI SCIENTIFICI
Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna izzsler
- Nov. 2020 **FELASA CERTIFICATE**
Centro Europeo di Ricerca sul Cervello (C.E.R.C.) - Santa Lucia Foundation, Rome (Italy).
- Nov. 2017– Jan. 2020 **Master degree in Neurobiology**
Final grades: 110 with honours
Final dissertation: 'Individual identity recognition in mice: a new experimental protocol for the study of social deficit's murine
Supervisors: Dr. Francesca D'amato, Dr. Silvia Mandillo
- Dec. 2019 Santa Lucia Foundation, Rome; "The 3Rs principle for a common vision" Ministry of Health, Roma
- Oct. 2019 Technology in scientific research: a contribution to Reduction" Centro Europeo di Ricerca sul Cervello (C.E.R.C.)
- Mar. 2018 "The use of statistics in biomedical research" Course
Centro Europeo di Ricerca sul Cervello (C.E.R.C.) - Santa Lucia Foundation, Rome (Italy).
- Oct. 2014– Nov. 2017 **Bachelor Degree in Biology**
Final grades: 107/110
Final dissertation: 'Sampling protocol and analysis of fish fauna in closed environment'
Supervisor: Dr. Lorenzo Tancioni

PERSONAL SKILLS

Mother tongue Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
	Replace with name of language certificate. Enter level if known.				
French	A1	A1	A1	A1	A1
	Replace with name of language certificate. Enter level if known.				

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Computer skills Microsoft Office (Excel, Word, Power Point, Outlook); The Observer, AnyMaze, Avisoft SASLab ProConfident with EthoVision and Smart 2.5 software for behavioral analysis, SasLab Pro (version 4.40; Avisoft Bioacoutics) for sonographic analysis, Macintosh/Microsoft operating systems, Microsoft Office suite and Graph-Pad software, StatView,.

Animal manipulation Behavioral analysis: Confident with mice behavioral tests during development: Ultrasonic Vocalization Test and Respiratory response to CO2 (plethysmograph); Confident with mice behavioral tests to evaluate motivation, response to rewarding stimuli, anxiety, depression, spatial memory and learning: Conditioned Placed Preference, Saccharine Preference Test, Elevated Plus Maze, Open Field, Tail Suspension Test, Light/dark Test, Three Chamber Test- Social Interaction, Forced Swimming Test, Y-maze Test. Confident with intraperitoneal injection and gavage. Confident with brain extraction; I helped and observed transcerebral perfusions, intracerebral microdialysis probe implantation, dissection procedures and brain micro-punching.

Soft Skills Great attitude towards team work, good time management and aptitude to respect the deadline, Ability to work in stressful situations.

Driving licence B

ADDITIONAL INFORMATION

Publications

Albini M, Almacellas-Barbanoj A, Krawczun-Rygmaczewska A, Ciano L, Benfenati F, Michetti C, Cesca F. Alterations in KIDINS220/ARMS Expression Impact Sensory Processing and Social Behavior in Adult Mice. *Int J Mol Sci.* 2024 Feb 16;25(4):2334. doi: 10.3390/ijms25042334. PMID: 38397009; PMCID: PMC10889203

Michetti C, Ferrante D, Parisi B, Ciano L, Prestigio C, Casagrande S, Martinoia S, Terranova F, Millo E, Valente P, Giovedi' S, Benfenati F, Baldelli P. Low glycemic index diet restrains epileptogenesis in a gender-specific fashion. *Cell Mol Life Sci.* 2023 Nov 10;80(12):356. doi: 10.1007/s00018-023-04988-1. PMID: 37947886; PMCID: PMC10638170.

Poster Presentations

- Sept. 2023 "Auditory-hippocampal alterations and behavioural fluctuation during development in a mouse model of autism and epilepsy" at Brayn in Naples.
- Jul 2022 "Synaptic alterations in the auditory cortex and hippocampus underlie social deficits in the Synapsin II knockout mouse" at FENS in Paris.
- Jun. 2022 "Synaptic alterations in the auditory cortex and hippocampus underlie social deficits in the Synapsin II knockout mouse" at EBPS in Rome.
- Jun. 2022 "Synaptic alterations in the auditory cortex and hippocampus underlie social deficits in the Synapsin II knockout mouse" at SINS Brescia