

PERSONAL INFORMATION

Deianira Bellitto, PhD



 IRCCS Ospedale Policlinico San Martino, Genoa, Italy



[REDACTED]

 deianira.bellitto@gmail.com

Gender Female  | Nationality Italian

CURRENT POSITION

- Post Doctoral fellow at U.O. Proteomic and Mass Spectrometry -IRCCS Ospedale San Martino, Genova
- Member of the Research Team of the **Telethon project "Role of TGDS in Catel-Manzke syndrome"**

WORK EXPERIENCE

16.12.2024-
present

**Post Doctoral Fellow – Proteomic and Mass Spectrometry
– IRCCS Ospedale San Martino, Genoa, Italy**

11.06.24-
14.06.24

**Oral communication at the 69° Italian Embryological Group (GEI) meeting
- Napoli (NA), Italy.**

07.02.24-
09.02.24

**Oral communication at the 4° Italian Zebrafish Meeting (ZFIM)
- Palermo (PA), Italy.**

Gen-2024

Didactic support as part of the Developmental Biology laboratories

Nov-2023

Didactic support as part of the Cytology and Histology laboratories

07.07.23-
11.07.23

Poster presentation at the GLIA Meeting 2023 – Berlin, Germany

05.06.23-
08.06.23

**Oral communication at the 68° Italian Embryological Group (GEI) meeting
- Oliveri (ME), Italy.**

09.01.2023-
09.04.2023

**Visiting PhD student at the University of Eastern Finland, Kuopio
hiPSCs handling and differentiation into astrocytes and microglia.**

Nov-2022

Didactic support as part of the Developmental Biology laboratories

29.09.2022

Poster presentation at the 5th BraYn Meeting - Rome, Italy

07.06.2022 **Oral communication at the 67° Italian Embryological Group (GEI) meeting**
- Gargnano, Italy.

09.02.2022 **Poster presentation at the 3rd Italian Zebrafish Meeting (ZFIM)**
- Naples, Italy.

Dec-2021 **Didactic support as part of the Developmental Biology laboratories**

22.06.2021 **Poster presentation at the 66° Italian Embryological Group (GEI) meeting**
Winner of the best poster prize

01.05.2021 –
31.10.2021

Research fellowship at University of Genoa, Italia

Cell transfection and cell culture management
Bacterial culture, cloning, transformation, mini- and midiprep Sanger sequencing, PCR, Real Time qPCR, immunofluorescence (IHC and ICC), microinjection, In Situ Hybridization (ISH), RNA and DNA extraction, Zebrafish husbandry management (feeding, checking water quality, crossing between animals, dissections). Epifluorescence microscopy. Histological staining (haematoxylin and eosin, alizarine blue)

EDUCATION AND TRAINING

14.02.2025 PhD defence, University of Genoa, Italy
cum laude

PhD Thesis: Generation of an Alexander Disease zebrafish model carrying the gfap p.R239C mutation: from transgenesis to omics analysis and validation using multiple experimental approaches

18.12.2020 International Master Degree in Neuroscience (LM-6), University of Trieste, Italy

Master's Thesis Characterization of heme metabolism in SH-SY5Y cells and their response to food additives: a pilot study.

09.2019 –
09.2020 Traineeship at Molecular Nutrition Research Group, University of Trieste, Italy

Acquired experience: Production of an engineered receptor specific for bilirubin
E. coli culture
Cell culture: endothelial cell line EA. hy926 and neuroblastoma cell line SH-SY5Y; WST-1 assay for cell proliferation and viability.
Cell Antioxidant Activity (CAA) assay after treatment with anthocyanins
Elements of MTT assay for cell viability
BCA assay for protein quantification
Western Blot

03.2019-
05.2019 Short-term traineeship at ICGEB, AREA Science Park- Padriciano, Italy

Acquired experience: Classical genetics experiments on *D. melanogaster*.
Handling, crossing, selection and feeding of different mutant drosophila lines (UAS-Gal4 system).

22.06.2017 Bachelor Degree in Biology (L-13) - University La Sapienza of Rome, Italy

Thesis Trx-G protein's role in the epigenetic regulation of *D. melanogaster* centromere

Acquired experience *Drosophila* brain and ovary dissection
Elements of RNA interference
Elements of Immunoprecipitation
Elements of SDS-PAGE

In extenso PUBLICATIONS

- Bellitto, D., Bozzo, M., Ravera, S., Bertola, N., Rosamilia, F., Milia, J., Barboro, P., Vargas, G. C., Di Lisa, D., Pastorino, L., Lantieri, F., Castagnola, P., Iervasi, E., Ponassi, M., Profumo, A., Tkachenko, K., Rosano, C., Candiani, S., & Bachetti, T. (2025). A multi-omics approach reveals impaired lipid metabolism and oxidative stress in a zebrafish model of Alexander disease. *Redox biology*, 81, 103544. <https://doi.org/10.1016/j.redox.2025.103544>
- Bozzo M, Bellitto D, Amaroli A, Ferrando S, Schubert M, Candiani S. Retinoic Acid and POU Genes in Developing Amphioxus: A Focus on Neural Development. *Cells*. 2023 Feb 14;12(4):614. doi: 10.3390/cells12040614. PMID: 36831281; PMCID: PMC9953854.
- Guarneri I, Bozzo M, Perez Criado N, Serafini E, Manfè G, Tagliapietra D, Fiorin R, Scapin L, Povero P, Bellitto D, Ferrando S, Amaroli A, Castellano L, Pestarino M, Schubert M, Candiani S. Amphioxus (*Branchiostoma lanceolatum*) in the North Adriatic Sea: ecological observations and spawning behavior. *Integr Zool*. 2024 Jun 17. doi: 10.1111/1749-4877.12846. Epub ahead of print. PMID: 38886157.

Under revision PUBLICATIONS**Published ABSTRACTS**

- D. Bellitto, M. Bozzo, E. Serafini, M. Balbi, M. Milanese, E. Fedele, S. Candiani. Synapto-gliosomal characterization in a zebrafish model of Alexander disease. *European journal of histochemistry*, volume 68/supplement 1 (2024).
- D. Bellitto, M. Bozzo, S. Ravera, N. Bertola, E. Fedele, M. Balbi, M. Milanese, L. Pastorino, D. Di Lisa, F. Rosamilia, P. Barboro, G. Coronel Vargas, E. Iervasi, M. Ponassi, A. Profumo, P. Romano, C. Rosano, S. Candiani, T. Bachetti. Metabolism, neurotransmitter release and nervous conduction in a zebrafish model of Alexander disease. *European Journal of Histochemistry*, Vol. 67 No. s3 (2023).
- D. Bellitto, M. Bozzo, S. Carestiato, M. Falappa, L. Zullo, A. Mack, M. Ori, F. Rosamilia, M. Pestarino, A. Maccione, I. Ceccherini, T. Bachetti, S. Candiani. Creation of a stable transgenic line for Alexander disease modeling in zebrafish. *European Journal of Histochemistry*, Vol. 66 No. s1 (2022).

ATTENDED COURSES

24.11.2023	ETICA E CONCEZIONE DEI PROGETTI, MODULI 9, 10, 11, DM 5 AGOSTO 2021 Hold by IZSLER
16.11.2023	Utilizzo dei pesci nella ricerca - 1 "Zebrafish, Peociliidae, altri pesci (Medaka, Nothobranchius, ecc.), Moduli 3.1, 4, 5 e 7 DM 5 agosto 2021" Hold by IZSLER
01-03.02.2023	Basic Next Generation Sequencing (NGS) procedures Hold by Dr. Roberta Carriero - Alta Formazione Insubria
14.03.2022	ELEMENTI BASE PER L'APPROCCIO DEI RICERCATORI ALL'UTILIZZO DEGLI ANIMALI AI FINI SCIENTIFICI Hold by IZSLER
28.11.2022	LEGISLAZIONE NAZIONALE ED ETICA LIVELLO 1, MODULI 1 E 2, DM 5 AGOSTO 2021 - Edizione Unica Hold by IZSLER
27.11.2022	BIOLOGIAE GESTIONE DEGLI ANIMALI DA LABORATORIO, MODULI 3.1, 4, 5, 6.1, 7. DM 5 AGOSTO 2021 RODITORI E LAGOMORFI Hold by IZSLER
21.11.2022	ZEBRAFISH COME ORGANISMO MODELLO: APPROCCI SPERIMENTALI IN VITRO E IN VIVO NELLA RICERCA SCIENTIFICA Hold by IZSLER

PERSONAL SKILLS**Mother tongue** Italian**Other languages**

English	C1	C1	B2	B2	C1
	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	

Computer and programming skills

- Basic: LaTeX, R.
- Good: Prism GraphPad
- Advanced: Office suites, Microsoft Windows.

Driving licence B**Organizational / managerial skills**

- Vice president of NoiPolis cultural association situated in Ciampino, Rome (from 2011 to 2015).
- Several years of experience in homework and didactic support (elementary and high school).