





PERSONAL INFORMATION

Davide Gualandris



-  Via Fratelli Cervi Residenza Botteghe (SNC) 20054 Segrate (MI)
-  +39 3483763719
-  davide.gualandris@uniupo.it / davide.gualandris23@gmail.com
-  <https://www.linkedin.com/in/davide-gualandris-a30a12201/>

Sex Male | Date of birth 23/10/1996 | Nationality Italian

WORK EXPERIENCE

November 2022- ongoing

PhD Student

University of Eastern Piedmont - Department of Science and Technological Innovation (DISIT) - Laboratory of Molecular Environmental Toxicology.

- My doctoral fellowship focuses on the study of biological responses to exposure to new-generation perfluoroalkyl substances in different in vivo and in vitro experimental models through a multi-disciplinary ecological and ecotoxicological approach.
- **Focus of work:** eDNA, Metabarcoding, Enzymology, Proteomics, Metatranscriptomics, Immunotoxicology, Ecotoxicology.

April 2022 - October 2022

Fellow

University of Eastern Piedmont - Department of Science and Technological Innovation (DISIT) - Laboratory of Molecular Environmental Toxicology.

- "Effects of biomagnification of emerging pollutants in the trophic network" Experimental research activity framed within the European project "Scenarios".
- **Focus of work:** bio-persistence and bio-magnification of per-/poly-fluoroalkyl substances.

January 2022 - April 2022

Free attendance of research laboratory

University of Eastern Piedmont - Department of Science and Technological Innovation (DISIT) - Laboratory of Molecular Environmental Toxicology.

- Replace with main activities and responsibilities
- Experimental research activity aimed at elucidating the antioxidant activity of different metallothionein isoforms using *Tetrahymena thermophila* as a model organism.
- Focus of Work:** Analysis and study of gene induction of different metallothionein gene isoforms using quantitative RT PCR techniques. RNA extraction, retro transcription, qualitative and quantitative RNA analysis and culture maintenance of *Tetrahymena thermophila*.

October 2021 – June 2023

Lecturer

INFOR ELEA (Professional school accredited by the Piedmont Region, via Dei Guasco 47 - Alessandria (AL) Italy.

- Biology, Dermatology and Hygiene teaching.

April 2021 – June 2021

Tutor

European Institute of Innovation for Sustainability, ROMA ITALIA

- Supervising and assisting members of the 'Biodiversity Manager' certificate programme.

May 2024 – Ongoing

Assistant & Didactic collaborator Molecular Biology 1

University of Eastern Piedmont - Department of Science and Technological Innovation (DISIT)

Supervisor for student laboratory

EDUCATION AND TRAINING

2019-2021

Master's degree in biology

Level QEQ 7

Summa cum laude. (110/110), distinction and honours.

University of Eastern Piedmont - Department of Science and Technological Innovation (DISIT) - Laboratory of Molecular Environmental Toxicology.

- **Thesis:** Role of ROS in the modulation of metallothionein genes in *Tetrahymena thermophila*.
- **Focus of work:** Analysis of the modulation of the three metallothionein isoforms (mmt1/mmt3/mmt5) in *Tetrahymena thermophila* by various stress agents.
- **Other focus:** Maintenance of *Tetrahymena thermophila* cultures, RNA extraction, Retrotranscription and quantitative and qualitative RNA analysis.

2019-2021

Bachelor in biological sciences

Level QEQ 8

100/110

University of Eastern Piedmont - Department of Science and Technological Innovation (DISIT) - Laboratory of Molecular Environmental Toxicology.

- **Thesis:** Effects of Carbon Nanotubes in a pleural mesothelial cell culture (MET-5A).
- **Focus of work:** Evaluation of the acute and chronic toxicity of carbon nanotubes in the MET-5A cell line with analysis of the induction of genes involved in the pathways of tumourigenic processes using the q-RT PCR technique.
- **Other focus:** Maintenance of MET-5A cultures, RNA Extraction, Retrotranscription and RNA Gel.

March 2024

Innovation technology & problem solving: fundamentals, methodologies, applications in mass spectrometry

University of Siena.

- Theoretical-practical skills on fundamentals of mass spectrometry;
- Theoretical-practical skills on the design, development and validation of qualitative/quantitative methods using mass spectrometry, high resolution mass spectrometry, tandem mass spectrometry;
- Skills on innovative aspects of mass spectrometry, such as ambient techniques, ion mobility, target and untarget analysis, etc.;
- Skills on interpretation of mass spectra, high resolution mass spectra and tandem mass spectra; and **knowledge** concerning the following issues:
- Knowledge of fundamentals of mass spectrometry, such as ionization techniques, analyzers, high resolution mass spectrometry, tandem mass spectrometry, coupling with separative techniques;
- Knowledge of general criteria for mass spectra, high resolution mass spectra and tandem mass spectra interpretation;
- Knowledge on the design, development and validation of quali/quantitative methods.
- Knowledge of several applications and innovative aspects of modern mass spectrometry.

November 2021- February 2021

Environmental SDG Indicators Training Course

United Nations Institute for Training and Research (UNITAR)

- **Activity description:** The course was structured in 10 modules, each representing a different topic of the UN SDGs.
- 1. Measuring the environment.
- 2. Linking FEDS, SEEA and the SDGs.
- 3. Measuring waste in the SDGs.
- 4. Measuring the state of the oceans.
- 5. Measuring land and water in the SDGs.
- 6. Measuring the flow of materials in the SDGs.
- 7. Sustainable consumption and production interventions in the SDGs.
- 8. Policy coherence for sustainable development

- 9. Measuring gender and the environment
- 10. Using environmental statistics for national analysis and policy.

July 2021 - July 2021

Marine Research Camp Training Course

Worldrise Onlus

- **Description of activity:** Worldrise Conservation Campus allowed me to deepen my knowledge through practical activities oriented to the application of standard monitoring protocols for marine-coastal habitats and cetaceans as well as emerging survey techniques. The didactic plan included lectures on cartography and GIS with practical application in QGIS; in-depth study of dolphin monitoring techniques with field trips for photo-identification; Posidonia Oceanica monitoring protocol; introduction to visual census, visual imaging and acoustic imaging techniques; as well as the study and application of reef algal population monitoring techniques (Carlit method) and notions of photogrammetry.

January 2015 - February 2016

Training Course "Safety and Health at Work - General Training

University of Eastern Piedmont - Department of Science and Technological Innovation (DISIT)

March 2016- April 2016

Training Course 'Specific Safety Training in Chemistry and Biology Laboratories

University of Eastern Piedmont - Department of Science and Technological Innovation (DISIT)

PERSONAL SKILLS

	Mother tongue				
	Listening	Reading	Interaction	Oral	Written
Italian					
English	C1	C1	C1	C1	C1
Spanish	B2	B2	B2	B2	B2
French	A2	A2	A2	A2	A2

Communication skills

- Public speaking
- Active listening
- Written communication

Computer skills

- Microsoft Office™ tools
- CFX-Manager
- Imaj Lab
- Rstudio (basic knowledge)
- Graphpad Prism
- Any desktop
- OBS
- Slack

Driving licence B

ADDITIONAL INFORMATION

Projects Member of EU 2020 Horizon Project “SCENARIOS”.

Conferences

- 34th SETAC European Meeting Seville 2024, S.It.E 2023rd-XXXII congress of the Italian Ecological Society; Catania 2023, EUROTOX 2023rd- 57th of European Toxicologists and European Societies of Toxicology; Ljubljana; International Proteomics and Metabolomics Conference” Third international congress Novara 2023; XXIII Scientific Meeting SIICS, Naples 13-15 February 2023, Darwin Dohrn Museum (DaDoM).

Memberships

- SIICS** (Società Italiana Immunologia Comparata e dello Sviluppo), **S.It.E.** (Società Italiana di Ecologia), **SETAC** (Society of environmental technology and chemistry).

References

- Francesco Dondero (Francesco.dondero@uniupo.it)

Posters

- Calisi A., Antiperini S., **Gualandris D.**, Lorusso C., Rotondo D., Dondero F., 2022. Non-destructive cellular biomarkers in the bioindicator organism *Lumbricus terrestris* exposed to heavy metals. 31st congress of Italian Society of Ecology, Siena-Italy 13-15 September.
- D. Rotondo, A. Calisi, **D. Gualandris**, F. Dondero., 2023. Cytotoxicity of Ether Perfluoro Carboxylic Acid PFAS Congeners in Earthworm Granulocytes. XXIII Meeting of the Italian Association of Developmental and Comparative Immunology, February 13th – 15th.
- D. Gualandris**, D. Rotondo, A. Calisi, F. Dondero., 2023. Cytotoxicity of Ether Perfluoro Carboxylic Acid (PFAS) Congeners in Earthworm Granulocytes. XXXIII Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC) 30 April – 4 May 2023.
- D. Rotondo, **D. Gualandris**, M. Manfredi, A. Calisi, F. Dondero., 2023. Neurotoxicity of Novel Perfluoroalkyl Ether Carboxylic Acids (PFECAs) in Earthworms (*Eisenia foetida*). XXXIII Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC) 30 April – 4 May 2023.
- Baranzini N.; Marcolli G., Bon C., Pulze L.; Acquati F., Rotondo D., **Gualandris D.**, Calisi A., Dondero F., Grimaldi A. 2024. “Per- and polyfluoroalkyl substances (PFAS) differently modulate the innate immune response in the medicinal leech *Hirudo*.” XXXIII congress of Italian Society of Ecology, Rome, Italy 23-26 September.

- Dondero F., Gulino F., Aceto M., Gianotti V., **Gualandris D.**, Rotondo D., Calisi A., Verri T., Lorusso C. 2024. "Mussel biofiltration of noxious metals in an experimental aquaculture system." XXXIII congress of Italian Society of Ecology, Rome, Italy 23-26 September.
- Rotondo D., Lagostena L., Papavasileiou K., Magnelli V., **Gualandris D.**, Lorusso C., Calisi A., Lynch I., Afantitis A., Dondero F. 2024. "Towards One-Health approach to neurotoxicity assessment of PFAS" XXXIII congress of Italian Society of Ecology, Rome, Italy 23-26 September.
- **Gualandris D.**, Rotondo D., Lorusso C., Manfredi M., Calisi A., Dondero F. "Assessing Apical Toxicity and Sublethal Responses of Earthworms in PFAS-Contaminated Soils: A Comprehensive Study at a Fire Training Site in Sweden" 2024. SETAC Europe 34th annual meeting of the Society of Environmental Toxicology and Chemistry; Seville 5-9 May 2024.