

CURRICULUM OF SCIENTIFIC AND TEACHING ACTIVITIES

PERSONAL INFORMATIONS



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h-index: 17; number of publications: 39; total citations: 1494

EDUCATION AND TRAINING

05/04/2020 to date. University Researcher - SSD MED/42 "General and Applied Hygiene".

26/04/2021. National Scientific Qualification for full professor, sector 06/M1 - General and Applied Hygiene, Nursing Sciences and Medical Statistics, SSD MED/42 - General and Applied Hygiene.

15/02/2019 - 14/02/2020. Research Fellow. Project title: "Quali-quantitative chemical characterization of PM_{2.5} particulate matter in the metropolitan area of Catania". University of Catania.

14/02/2018 – 14/06/2018. Research Fellow. Project title: "Support to research activities for environmental monitoring relating to periodic chemical analyzes of radioactive elements and polycyclic aromatic hydrocarbons in drinking water, for the company Priolo Servizi, a consortium company p.a." University of Catania.

15/05/2017 – 15/09/2017. Research Fellow. Project title: "Chemical, microbiological and toxicological characterization of rainwater for treatment by phytoremediation systems". University of Catania.

03/03/2017. PhD in Geological, Biological and Environmental Sciences - CV Biological Sciences and Biotechnology.

31/08/2015 – 25/09/2015. Visiting PhD student at the "Laboratory of Toxicology and Environmental Health, School of Medicine", Universitat Rovira i Virgili (Reus/Tarragona, Catalonia, Spain).

21/07/2014. Professional qualification, Biologist, section A.

23/07/2013. Master's Degree in Biodiversity and Environmental Quality (LM-6). Vote 110/110. University of Catania.

UNIVERSITY TEACHING ACTIVITY

2015-2016. Tutor for students of the Bachelor Degree in Biomedical Laboratory Technician (L/SNT3) for laboratory activities, preparatory and recovery activities. University of Catania.

From 2015/16 to date. Elective Teaching Activities - Bachelor Degree in Biomedical Laboratory Techniques, University of Catania.

2018/19 – 2019/20. Lecturer in the disciplinary sector of General and Applied Hygiene (MED-42), Department of Political and Social Sciences, Bachelor Degree in Sociology and Social Service (L39-L40), University of Catania.

From 2018/19 to date. Co-supervisor/Supervisor for the drafting of the degree thesis for students belonging to the following degree courses: Bachelor Degree in Biomedical Laboratory Techniques (L/SNT3), Master Degree in Social Policies and Services (LM-87), Bachelor Degree in Sociology and Social Work (L39-L40), Master Degree in Environmental Sciences (LM-6), Bachelor Degree in Applied Pharmaceutical Sciences (L-29).

From 2019/20 to date. Teacher "Midwifery Laboratory: health education applied to Midwifery" – Bachelor Degree in Midwifery L/SNT1.

From 2020/21 to date. Professor of Environmental and Food Hygiene - Prevention and Health Services Sciences – Bachelor Degree in Biomedical Laboratory Techniques L/SNT3.

From 2020/21 to date. Professor of General and Applied Hygiene - Preparatory Sciences – Bachelor Degree in Obstetrics L/SNT1.

From 2021/22 to date. Professor of General and Applied Hygiene - Interdisciplinary Sciences I – Bachelor Degree in Audioprosthetic Techniques L/SNT3.

From 2022/23 to date. Professional Training Teacher V year, channel 3, Degree Course in Medicine and Surgery (LM-41).

MANAGEMENT OR PARTICIPATION IN EDITORIAL COMMITTEES OF MAGAZINES, EDITORIAL SERIES, ENCYCLOPAEDIA AND TREATISES OF ACKNOWLEDGED PRESTIGE

2020. Chapter 10, "Phytoremediation". **Cristaldi A.**, Copat C., Oliveri Conti G., Zuccarello P., Grasso A., Ferrante M.). "The Handbook of Environmental Remediation: Classic and Modern Techniques". Editor: Chaudhery Mustansar Hussain. Royal Society of Chemistry.

2020 – 2021. Guest Editor for Special issue "The Role of Air Pollution during the COVID-19 Pandemic", International Journal of Environmental Research and Public Health (an Open Access Journal by MDPI).

Peer Reviewer for the following scientific journals

- Food and Chemical Toxicology, Elsevier, CiteScore: 10.2 - Impact Factor: 5.572.
- Journal of Hazardous Materials, Elsevier, CiteScore: 14.7 - Impact Factor: 14.224.
- Ecotoxicology and Environmental Safety, Elsevier, CiteScore: 10.1 - Impact Factor: 7.129.
- Waste Management, Elsevier, CiteScore: 13.5 - Impact Factor: 8.816.
- Science of the Total Environment, Elsevier, CiteScore: 14.1 - Impact Factor: 10.753.
- Journal of Applied Research on Medicinal and Aromatic Plants, Elsevier, CiteScore: 5.1 – Impact Factor: 3.945.
- Information Processing in Agriculture, Elsevier, CiteScore: 12.
- Environment Technology and Innovation, Elsevier, CiteScore: 5.7 - Impact Factor: 7.758.
- Food Chemistry, Elsevier, CiteScore: 13.1 - Impact Factor: 9.231.
- Food Control, Elsevier, CiteScore: 9.3 - Impact Factor: 6.652.

ACHIEVEMENT OF AWARDS AND RECOGNITION FOR SCIENTIFIC ACTIVITY, INCLUDING MEMBERSHIP TO ACADEMIES OF RECOGNIZED PRESTIGE IN THE SECTOR

- **Best Paper Award**, International Conference One Health, Catania, 27-28 September 2022. **“Preliminary data on the effects of PM_{2.5} on Olfactory Ensheathing Cells (OECs)”**. Antonio Cristaldi, Rosalia Pellitteri, Paola Dell'Albani, Gea Oliveri Conti, Chiara Copat, Alfina Grasso, Maria Fiore, Giuseppa Milletari, Sebastiano Cavallaro, Margherita Ferrante.
- **Best Poster Award**, International Conference One Health, Catania, 27-28 September 2022. **“Ecotoxicity analysis on the urban WWTPs water samples for the monitoring of wastewater quality released in sea water”**. Paola Rapisarda, Antonio Cristaldi, Claudia Favara, Maria Fiore, Maria Castrogiovanni, Gea Oliveri Conti, Margherita Ferrante, Eloise Pulvirenti.
- **Award winning communication**, "Le giornate della ricerca scientifica e delle esperienze professionali dei giovani". SItI (Società Italiana di Igiene, Medicina Preventiva e Sanità Pubblica). Istituto Superiore di Sanità e Università La Sapienza, Roma, 20-21 dicembre 2019. **“Comparison of various contributions to dietary exposure to micro and nano**

plastics". Pietro Zuccarello, Gea Oliveri Conti, **Antonio Cristaldi**, Ilenia Nicolosi, Claudia Favara, Margherita Ferrante.

- **Member**, Società Italiana di Igiene, Medicina Preventiva e Sanità Pubblica (SIItI) from 2016.

LIST OF SCIENTIFIC PUBLICATIONS

1. Palella M., Copat C., Grasso A., **Cristaldi A.**, Oliveri Conti G., Ferrante M., Fiore M., 2023. Healthcare University Courses Fail to Improve Opinions, Knowledge, and Attitudes toward Vaccines among Healthcare Students: A Southern Italy Cross-Sectional Study. *Int. J. Environ. Res. Public Health* 2023, 20(1), 533; <https://doi.org/10.3390/ijerph20010533>.
2. Ferrante M., Distefano G., Distefano C., Copat C., Grasso A., Oliveri Conti G., **Cristaldi A.**, Fiore M., 2022. Benefits of Physical Activity during and after Thyroid Cancer Treatment on Fatigue and Quality of Life: A Systematic Review. *Cancers* 2022, 14(15), 3657; <https://doi.org/10.3390/cancers14153657>.
3. **Cristaldi A.**, Fiore M., Oliveri Conti G., Pulvirenti E., Favara C., Grasso A., Copat C., Ferrante M., 2022. Possible association between PM_{2.5} and neurodegenerative diseases: A systematic review. *Environmental Research* 208 (2022) 112581. <https://doi.org/10.1016/j.envres.2021.112581>.
4. Adel M., Copat C., Oliveri Conti G., Sakhaie F., Hashemi Z., Mancini G., **Cristaldi A.**,* Ferrante M., 2022. Trace elements in the muscle tissue of *Hemiculter leucisculus* and *Abramis brama orientalis* from the Anzali International wetland, south-west of Caspian Sea: An exposure risk assessment. *Marine Pollution Bulletin* 180 (2022) 113756. <https://doi.org/10.1016/j.marpolbul.2022.113756>. *Corresponding
5. Ferrante M., Zuccarello P., Allegui C., Fiore M., **Cristaldi A.**, Pulvirenti E., Favara C., Copat C., Grasso A., Omayma M., Oliveri Conti G., Banni M., 2022. Microplastics in fillets of Mediterranean seafood. A risk assessment study. *Environmental Research* 204 (2022) 112247. <https://doi.org/10.1016/j.envres.2021.112247>.
6. Dovlatabadi A., Estiri E.H., Najafi M.L., Ghorbani A., Rezaei H., Behmanesh M., Momeni E., Gholizadeh A., **Cristaldi A.**, Mancini G., Alahabadi A., Miri M., 2022. Bioaccumulation and health risk assessment of exposure to potentially toxic elements by consuming agricultural products irrigated with wastewater effluents. *Environmental Research* 205 (2022) 112479. <https://doi.org/10.1016/j.envres.2021.112479>.

7. Grasso A., Ferrante M., Moreda Pineiro A., Arena G., Magarini R., Oliveri Conti G., **Cristaldi A.**, Copat C., 2022. Dietary exposure of zinc oxide nanoparticles (ZnO-NPs) from canned seafood by single particle ICP-MS: Balancing of risks and benefits for human health. *Ecotoxicology and Environmental Safety* 231 (2022) 113217. <https://doi.org/10.1016/j.ecoenv.2022.113217>.
8. Pulvirenti E., Ferrante M., Barbera N., Favara C., Aquilia E., Palella M., **Cristaldi A.**, Oliveri Conti G., Fiore M., 2022. Effects of Nano and Microplastics on the Inflammatory Process: In Vitro and In Vivo Studies Systematic Review. *Front. Biosci. (Landmark Ed)* 2022; 27(10): 287. <https://doi.org/10.31083/j.fbl2710287>.
9. Ferrante M., Distefano G., Distefano C., Copat C., Grasso A., Oliveri Conti G., **Cristaldi A.**, Fiore M., 2022. Benefits of Physical Activity during and after Thyroid Cancer Treatment on Fatigue and Quality of Life: A Systematic Review. *Cancers* 2022, 14, 3657. <https://doi.org/10.3390/cancers14153657>.
10. Ferrante M., **Cristaldi A.**, Oliveri Conti G., 2021. Oncogenic Role of miRNA in Environmental Exposure to Plasticizers: A Systematic Review. *J. Pers. Med.* 2021, 11, 500. <https://doi.org/10.3390/jpm11060500>.
11. Zuccarello P., Manganelli M., Oliveri Conti G., Copat C., Grasso A., **Cristaldi A.**, De Angelis G., Testai E., Stefanelli M., Vichi S., Fiore M., Ferrante M., 2021. Water quality and human health: A simple monitoring model of toxic cyanobacteria growth in highly variable Mediterranean hot dry environments. *Environmental Research* 192 (2021) 110291. <https://doi.org/10.1016/j.envres.2020.110291>.
12. Fiore M., **Cristaldi A.**, Okatyeva V., Lo Bianco S., Oliveri Conti G., Zuccarello P., Copat C., Caltabiano R., Cannizzaro M., Ferrante M., 2021. Role of Age and Sex on Simple and Complex Carbohydrates Rich Foods Consumption and Thyroid Cancer Risk: Hospital Based Case - Control Study. *The Open Public Health Journal* 1874-9445/21. doi: 10.2174/1874944502114010038.
13. **Cristaldi A.**, Fiore M., Zuccarello P., Oliveri Conti G., Grasso A., Nicolosi I., Copat C., ferrante M., 2020. Efficiency of Wastewater Treatment Plants (WWTPs) for Microplastic Removal: A Systematic Review. *Int. J. Environ. Res. Public Health* 2020, 17, 8014; doi:10.3390/ijerph17218014.
14. Copat C., **Cristaldi A.**, Fiore M., Grasso A., Zuccarello P., Signorelli S.S., Conti G.O., Ferrante M., 2020. The role of air pollution (PM and NO₂) in COVID-19 spread and lethality: A systematic review. *Environmental research*, Volume 191, December 2020, Article number 110129. <https://doi.org/10.1016/j.envres.2020.110129>.

15. Signorelli S.S., Oliveri Conti G., Fiore M., Elfio M.G., **Cristaldi A.**, Nicolosi I., Zuccarello P., Zanolì L., Gaudio A., Di Raimondo D., Ferrante M., 2020. Inter-Relationship between Platelet-Derived Microparticles and Oxidative Stress in Patients with Venous Thromboembolism. *Antioxidants* 2020, 9, 1217; doi:10.3390/antiox9121217.
16. Filippini T., Tesauro M., Fiore M., Malagoli C., Consonni M., Violi F., Iacuzio L., Arcolin E., Conti G. O., **Cristaldi A.**, Zuccarello P., Zucchi E., Mazzini L., Pisano F., Gagliardi I., Patti F., Mandrioli J., Ferrante M., Vinceti M., 2020. Reply to comment “environmental and occupational risk factors of amyotrophic lateral sclerosis: A population-based case-control study”. *International Journal of Environmental Research and Public Health*, Volume 17, Issue 18, 2 September 2020, article number 6492, pages 1-3. doi:10.3390/ijerph17186492.
17. Grasso A., Ferrante M., Zuccarello P., Filippini T., Arena G., Fiore M., **Cristaldi A.**, Oliveri Conti G., Copat C., 2020. Chemical Characterization and Quantification of Titanium Dioxide Nanoparticles (TiO₂-NPs) in Seafood by Single-Particle ICP-MS: Assessment of Dietary Exposure. *Int. J. Environ. Res. Public Health* 2020, 17, 9547; doi:10.3390/ijerph17249547.
18. Oliveri Conti G., Ferrante M., Banni M., Favara C., Nicolosi I., **Cristaldi A.**, Fiore M., Zuccarello P., 2020. Micro- and nano-plastics in edible fruit and vegetables. The first diet risks assessment for the general population. *Environmental Research* Volume 187, August 2020. <https://doi.org/10.1016/j.envres.2020.109677>.
19. Fiore M., Parisio R., Filippini T., Mantione V., Platania A., Odone A., Signorelli C., Pietrini V., Mandrioli J., Teggi S., Costanzini S., **Cristaldi A.**, Zuccarello P., Oliveri Conti G., Nicoletti A., Zappia M., Vinceti M., Ferrante M., 2020. Living near waterbodies as a proxy of cyanobacteria exposure and risk of amyotrophic lateral sclerosis: a population based case-control study. *Environmental Research*, Volume 186, July 2020. <https://doi.org/10.1016/j.envres.2020.109530>.
20. **Cristaldi A.**, Oliveri Conti G., Cosentino S.L., Mauromicale G., Copat C., Grasso A., Zuccarello P., Fiore M., Restuccia C., Ferrante M., 2020. Phytoremediation potential of *Arundo donax* (Giant Reed) in contaminated soil by heavy metals. *Environmental research*, Volume 185, June 2020. <https://doi.org/10.1016/j.envres.2020.109427>.
21. Filippini T., Tesauro M., Fiore M., Malagoli C., Consonni M., Violi F., Iacuzio L., Arcolin E., Conti G. O., **Cristaldi A.**, Zuccarello P., Zucchi E., Mazzini L., Pisano F., Gagliardi I., Patti F., Mandrioli J., Ferrante M., Vinceti M., 2020. Environmental and occupational risk factors of amyotrophic lateral sclerosis: A population-based case-control study.

International Journal of Environmental Research and Public Health, Volume 17, Issue 8, 2 April 2020. doi:10.3390/ijerph17082882.

22. Filippini T., Fiore M., Tesauro M., Malagoli C., Consonni M., Violi F., Arcolin E., Iacuzio L., Conti G. O., **Cristaldi A.**, Zuccarello P., Zucchi E., Mazzini L., Pisano F., Gagliardi I., Patti F., Mandrioli J., Ferrante M., Vinceti M., 2020. Clinical and lifestyle factors and risk of amyotrophic lateral sclerosis: A population-based case-control study. *International Journal of Environmental Research and Public Health* 2020 Jan 30;17(3). pii: E857. doi:10.3390/ijerph17030857.
23. Fiore M., Barone R., Copat C., Grasso A., **Cristaldi A.**, Rizzo R., Ferrante M., 2020. Metal and essential element levels in hair and association with autism severity. *Journal of Trace Elements in Medicine and Biology* 57 (2020) 99–103. <https://doi.org/10.1016/j.jtemb.2019.126409>.
24. Fiore M., **Cristaldi A.**, Okatyeva V., Lo Bianco S., Oliveri Conti G., Zuccarello P., Copat C., Caltabiano R., Cannizzaro M., Ferrante M., 2020. Dietary habits and thyroid cancer risk: A hospital-based case–control study in Sicily (South Italy). *Food and Chemical Toxicology* 146 (2020) 111778. <https://doi.org/10.1016/j.fct.2020.111778>.
25. Zuccarello P., Oliveri Conti G., Fiore M., Elfio M.G., Saitta S., Copat C., **Cristaldi A.**, Ferrante M., 2020. The Relevance of Microcystin Monitoring in Dialysis Centers of Sicilians Cities: An Environmental Study. *The Open Public Health Journal* 1874-9445/20. doi: 10.2174/1874944502013010823.
26. Zuccarello P., Ferrante M., **Cristaldi A.**, Copat C., Grasso A., Sangregorio D., Fiore M., Oliveri Conti G., 2019. Exposure to microplastics (<10 µm) associated to plastic bottles mineral water consumption: The first quantitative study. *Water Research* 157 (2019) 365-371. <https://doi.org/10.1016/j.watres.2019.03.091>.
27. Zuccarello P., Ferrante M., **Cristaldi A.**, Copat C., Grasso A., Sangregorio D., Fiore M., Oliveri Conti G., 2019. Reply for comment on “Exposure to microplastics (<10 µm) associated to plastic bottles mineral water consumption: The first quantitative study by Zuccarello et al. [Water Research 157 (2019) 365-371]”. *Water Research* 166 (2019) 115077. <https://doi.org/10.1016/j.watres.2019.115077>.
28. Fiore M., **Cristaldi A.**, Okatyeva V., Lo Bianco S., Oliveri Conti G., Zuccarello P., Copat C., Caltabiano R., Cannizzaro M., Ferrante M., 2019. Physical Activity and Thyroid Cancer Risk: A Case-Control Study in Catania (South Italy). *Int. J. Environ. Res. Public Health* 2019, 16, 1428; doi:10.3390/ijerph16081428.

29. Ferrante M., Napoli S., Grasso A., Zuccarello P., **Cristaldi A.**, Copat C., 2019. Systematic review of arsenic in fresh seafood from the Mediterranean Sea and European Atlantic coasts: A health risk assessment. *Food and Chemical Toxicology* 126 (2019) 322–331. <https://doi.org/10.1016/j.fct.2019.01.010>.
30. Restuccia C., Oliveri Conti G., Zuccarello P., Parafati L., **Cristaldi A.**, Ferrante M., 2019. Efficacy of different citrus essential oils to inhibit the growth and B1 aflatoxin biosynthesis of *Aspergillus flavus*. *Environmental Science and Pollution Research* (2019) 26:31263–31272. doi.org/10.1007/s11356-019-06169-9.
31. Ferrante M., Zanghì G., **Cristaldi A.**,* Copat C., Grasso A., Fiore M., Signorelli S.S., Zuccarello P., Oliveri Conti G., 2018. PAHs in seafood from the Mediterranean Sea: An exposure risk assessment. *Food and Chemical Toxicology* 115 (2018) 385–390. <https://doi.org/10.1016/j.fct.2018.03.024>. * **Corresponding**
32. Zuccarello P., Oliveri Conti G., Cavallaro F., Copat C., **Cristaldi A.**, Fiore M., Ferrante M., 2018. Implication of dietary phthalates in breast cancer. A systematic review. *Food and Chemical Toxicology* 118 (2018) 667–674. <https://doi.org/10.1016/j.fct.2018.06.011>.
33. Copat C., Grasso A., Fiore M., **Cristaldi A.**, Zuccarello P., Signorelli S.S., Oliveri Conti G., Ferrante M., 2018. Trace elements in seafood from the Mediterranean Sea: an exposure risk assessment. *Food and Chemical Toxicology* 115 (2018) 13–19. <https://doi.org/10.1016/j.fct.2018.03.001>.
34. Fakhri Y., Mohseni-Bandpei A., Oliveri Conti G., Ferrante M., **Cristaldi A.**, Jeihooni A.K., Dehkordi M.K., Alinejad A., Rasoulzadeh H., Mohseni S.M., Sarkhosh M., Keramati H., Moradi B., Nazak A., Baninameh Z., 2018. Systematic review and health risk assessment of arsenic and lead in the fished shrimps from the Persian Gulf. *Food and Chemical Toxicology* 113 (2018) 278–286. <https://doi.org/10.1016/j.fct.2018.10.003>.
35. Asl F.B., Leili M., Vaziri Y., Arian S.S., **Cristaldi A.**, Oliveri Conti G., Ferrante M., 2017. Health impacts quantification of ambient air pollutants using AirQ model approach in Hamadan, Iran. *Environmental Research* 161 (2018) 114–121. <http://dx.doi.org/10.1016/j.envres.2017.10.050>.
36. D'Alessandro D, Arletti S, Azara A, Buffoli M, Capasso L, Cappuccitti A, Casuccio A, Cecchini A, Costa G, De Martino AM, Dettori M, Di Rosa E, Fara GM, Ferrante M, Giammanco G, Lauria A, Melis G, Moscato U, Oberti I, Patrizio C, Petronio MG, Rebecchi A, Romano Spica V, Settimo G, Signorelli C, Capolongo S. Alessi V, Apollonio F, Barbagallo E, Bassot AM, Bernini D, Borghini A, Borri M, Brandimarte A, Copat C, Cracchiolo M, Cribellati S, **Cristaldi A.**, D'Agati P, D'Amico A, De Marchis A, Dell'Ovo

M, Donia AM, Filippini T, Giannetti G, Giorgi S, Gola M, Grasso A, Graziano G, Lanzilotti C, Laudani N, Lopuzzo M, Malfer M, Marchese V, Marzella A, Mascarello A, Milicia GM, Nurchis P, Ogana S, Oliveri Conti CG, Pacifico C, Paduano S, Paglione L, Palmeri S, Pieve G, Raffo M, Raguzzoni G, Raia DD, Righi A, Rochira A, Rondinelli L, Salvia C, Sciaraffa R, Trogu F, Ubiali A, Valt R, Vantaggiato V, Ventura G, Zuccarello P. (2017). Strategies for disease prevention and health promotion in urban areas: the Erice 50 charter. ANNALI DI IGIENE MEDICINA PREVENTIVA E DI COMUNITÀ, ISSN: 1120-9135, doi: 10.7416/ai.2017.2179.

37. **Cristaldi A.**, Oliveri Conti G., Jho E.H., Zuccarello P., Grasso A., Copat C., Ferrante M., 2017. Phytoremediation of contaminated soils by heavy metals and PAHs. A brief review. Environmental Technology and Innovation 8 (2017) 309-326. <http://dx.doi.org/10.1016/j.eti.2017.08.002>.
38. Ferrante M., Zuccarello P., Garufi A., **Cristaldi A.**, Oliveri Conti G. Algal biotoxins in Dialysis Water: a risk not managed (Biotossine algali in acque di dialisi: un rischio non gestito). Igiene e Sanità Pubblica 2015; 72:39-52.
39. Oliveri Conti G., Copat C., Wang Z., D'Agati P., **Cristaldi A.**, Ferrante M., 2015. Determination of illegal antimicrobials in aquaculture feed and fish: An ELISA study. Food Control 50 (2015) 937-941. <http://dx.doi.org/10.1016/j.foodcont.2014.10.050>.

The undersigned declares to be informed, pursuant to Legislative Decree 196/2003, that the above data will be used in the context of the procedure for which this declaration is made.

Catania, 22/01/2023

The declarant

