

Paola Malaspina

Researcher RTDA BIO/01

paola.malaspina@unige.it

+39 010 353 8050

Education and training

2015

PhD in Botany Applied to Agriculture and Environment

"Biomonitoring of air pollution in coastal environments using lichen transplants."

University of Genova - Genova - IT

2007

Qualification to practice as biologist

National Order of Biologists - Genova - IT

2007

Graduated in Sciences and technology of biological monitoring

"Analysis of photosynthetic performance in the lichen *Parmotrema chinense* (Osbeck) Hale & Ahti in relation to macroclimatic variations" – 110/110 cum lode.

University of Genova - Genova - IT

Academic experience

2022 - ONGOING

Researcher RTDA - General Botany (BIO/01)

University of Genova - Genova - IT (Department of Earth, Environmental and Life Sciences)

2017 - 2019

Research fellow

University of Genova - Genova - IT (Department of Pharmacy)

2015

Collaborative assignment

"Investigation of the presence of secondary metabolites in *Berardia subacaulis* Vill."

University of Genova - Genova - IT (Department of Earth, Environmental and Life Sciences)

2008- 2010

Research fellow

University of Genova - Genova - IT

Paola Malaspina

curriculum vitae

Teaching activity

2022-2023

- APPLICATIONS OF BIOACTIVE COMPOUNDS OF PLANT ORIGIN (COD. 108889)
- BOTANY AND LABORATORY (1° MODULE) (COD. 70044)
- BOTANY AND LABORATORY (2° MODULE) (COD. 80812)

2021-2022

- BOTANY AND LABORATORY (1° MODULE) (COD. 70044)
- BOTANY AND LABORATORY (2° MODULE) (COD. 80812)

Work experience

2019 – 2022

Special needs teacher

High school “P. Gobetti” – Genova Italy

2015

Collaboration in lichenological survey activities in the area surrounding the Santa Barbara Power Plant, located in the municipality of Cavriglia (AR).

TerraData srl – Monterotondo Marittimo (GR) Italy

Language skills

English

Editorial activity

2022 – today

Associate editor of “Journal of Biological Research - Bollettino della Società Italiana di Biologia Sperimentale”.

Public engagement

2022

Conference “Bioactive compounds and circular economy”

Associazione Festival della Scienza

Awards at national and international competitions

2014: “Carlo Gaggi” award

Italian Lichen Society

Publications in international scientific journals

- **Malaspina P.**, Betuzzi F., Ingegneri M., Smeriglio A., Cornara L., Trombetta D., 2022. Risk of Poisoning from Garden Plants: Misidentification between Laurel and Cherry Laurel. *Toxins* 2022, 14, 726.
- **Malaspina P.**, Papaiani M., Ranesi M., Polito F., Danna C., Aicardi P., Cornara L., Woo S.L., De Feo V., 2022. *Eucalyptus cinerea* and *E. nicholii* by-Products as Source of Bioactive Compounds for Agricultural Applications. *Plants*, 11, 2777.
- Di Nuzzo L., Benesperi R., Nascimbene J., Papini A., **Malaspina P.**, Incerti G., Giordani P., 2022. Little time left. Microrefuges may fail in mitigating the effects of climate change on epiphytic lichens. *Science of the Total Environment* 825, 153943.
- Favero-Longo S.E., Vannini A., Benesperi R., Bianchi E., Fackovcova Z., Giordani P., **Malaspina P.**, Martire L., Matteucci E., Paoli L., Ravera S., Roccardi A., Tonon C., Loppi S., 2020. The application protocol impacts the effectiveness of biocides against lichens. *International Biodeterioration and Biodegradation*, 155, 105105.
- **Malaspina P.**, Catellani E., Burlando B., Brignole D., Cornara L., Bazzicalupo M., Candiani S., Obino V., De Feo V., Caputo L., Giordani P., 2020. Depigmenting potential of lichen extracts evaluated by in vitro and in vivo tests. *PeerJ*, 8: e9150.
- Turrini F., **Malaspina P.**, Giordani P., Catena S., Zunin P., Boggia R., 2020. Traditional decoction and puae aqueous extracts of pomegranate peels as potential low-cost anti-tyrosinase ingredients. *Applied Sciences (Switzerland)*, 10(8), 2795.
- Giordani P., Benesperi R., Bianchi E., **Malaspina P.**, Nascimbene J., 2019. Threats and Conservation Strategies for Overlooked Organisms: The Case of Epiphytic Lichens. *Environmental Concerns and Sustainable Development: Volume 2: Biodiversity, Soil and Waste Management*, pp. 1 -26.
- Brunialti G., Frati L., Malegori C., Giordani P., **Malaspina P.**, 2019. Do Different Teams Produce Different Results in Long-Term Lichen Biomonitoring? *Diversity*, 11, 43.
- Giordani P., **Malaspina P.**, Benesperi R., Incerti G., Nascimbene J., 2019. Functional over-redundancy and vulnerability of lichen communities decouple across spatial scales and environmental severity. *Science of the Total Environment*, 666: 22–30.
- **Malaspina P.**, Casale, M., Malegori, C., Hooshyari, M., Di Carro, M., Magi, E., Giordani, P., 2018. Combining spectroscopic techniques and chemometrics for the interpretation of lichen biomonitoring of air pollution. *Chemosphere*, 198: 417-424.
- Giordani P., Brunialti G., Calderisi M., **Malaspina P.**, Frati L., 2018. Beta diversity and similarity of lichen communities as a sign of the times. *The Lichenologist* 50(3): 371–383.
- **Malaspina P.**, Modenesi, P., Giordani, P., 2018. Physiological response of two varieties of the lichen *Pseudevernia furfuracea* to atmospheric pollution. *Ecological Indicators* 86: 27–34
- Giordani, P., Minganti, V., Brignole, D., Malaspina, P., Cornara, L., Drava, G., 2017. Is there a risk of trace element contamination in herbal preparations? A test study on the lichen *Cetraria islandica*. *Chemosphere* 181: 778 – 785.
- Giordani P., Malaspina P., 2017. Do tree-related factors mediate the response of lichen functional groups to eutrophication? *Plant Biosystems - An International Journal Dealing with all Aspects of Plant Biology*, 151 (6): 1062 – 1072.
- Favero-Longo, S.E., Benesperi, R., Bertuzzi, S., Bianchi, E., Buffa, G., Giordani, P., Loppi, S., **Malaspina P.**, Matteucci, E., Paoli, L., Ravera, S., Roccardi, A., Segimiro, A., Vannini, A., 2017. Species- and site-specific efficacy of commercial biocides and application solvents against lichens. *International Biodeterioration & Biodegradation* 123: 127-137.
- Minganti V., Drava G., Giordani P., **Malaspina P.**, Modenesi P., 2016. Human contribution to trace elements in urban areas as measured in holm oak (*Quercus ilex* L.) bark. *Environmental Science and Pollution Research* 23(12):12467- 12473.
- Giordani P., Rizzi G., Caselli A., Modenesi P., **Malaspina P.**, Mariotti M.G., 2016. Fire affects the functional diversity of epilithic lichen communities. *Fungal Ecology* 20, 49–55.
- Casale M., Bagnasco L., Giordani P., Mariotti M.G., **Malaspina P.**, 2015. NIR spectroscopy as a tool for discriminating between lichens exposed to air pollution. *Chemosphere* 134, 355 – 360.
- **Malaspina P.**, Giordani P., Pastorino G., Modenesi P., Mariotti M.G., 2015. Interaction of sea salt and atmospheric pollution alters the OJIP fluorescence transient in the lichen *Pseudevernia furfuracea* (L.) Zopf. *Ecological Indicators* 50, 251 – 257.
- Minganti V., Drava G., De Pellegrini R., Anselmo M., Modenesi P., **Malaspina P.**, Giordani P., 2015. The bark of holm oak (*Quercus ilex*, L.) for airborne Cr(VI) monitoring. *Chemosphere* 119: 1361 - 1364.

- **Malaspina P.**, Giordani P., Modenesi P., Abelmoschi M.L., Magi E., Soggia F., 2014. Bioaccumulation capacity of two chemical varieties of the lichen *Pseudevernia furfuracea*. *Ecological Indicator* 45: 605 – 610.
- Minganti V., Drava G., De Pellegrini R., Modenesi P., **Malaspina P.**, Giordani G., 2014. Temporal trends (1981-2007) of trace and rare earth element deposition in lichen *Cetraria islandica* (L.) Ach. from herbaria (Italy). *Chemosphere* 99: 180–185.
- **Malaspina, P.**, Giordani, P., Faimali, M., Garaventa, F., Modenesi, P., 2014. Assessing photosynthetic biomarkers in lichen transplants exposed under different light regimes. *Ecological Indicators* 43, 126 – 131.
- **Malaspina P.**, Tixi S., Brunialti G., Frati L., Paoli L., Giordani P., Modenesi P., Loppi S., 2014. Biomonitoring urban air pollution using transplanted lichens: element concentrations across seasons. *Environmental Science and Pollution Research* 21 (22): 12836 – 42.
- Bussotti F., Pollastrini M., Cascio C., Desotgiu R., Gerosa G., Marzuoli R., Nali C., Lorenzini G., Pellegrini E., Carucci M.G., Salvatori E., Fusaro L., Piccotto M., **Malaspina P.**, Manfredi A., Roccotello E., Toscano S., Gottardini E., Cristofori A., Fini A., Weber D., Baldassarre V., Barbanti L., Monti A., Strasser R.J., 2011. Conclusive remarks. Reliability and comparability of chlorophyll fluorescence data from several field teams. *Environmental and Experimental Botany* 73: 116-119
- Giordani P., **Malaspina P.**, Rizzi G., Tixi S., Modenesi P., 2010. Responses of lichens to climate: experimental applications from the organism to the community level. *Bollettino dei Musei e degli Istituti Biologici* Vol 72.
- Giordani P., Incerti G., Rizzi G., Ginaldi F., Viglione S., Rellini I., Brunialti G., **Malaspina P.**, Modenesi P., 2010. Land use intensity drive the local variation of lichen diversity in Mediterranean ecosystems sensitive to desertification. *Bibliotheca lichenologia* 105: 139–148.