

Curriculum Vitae et studiorum of Marcella Pasqualetti

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Marcella Pasqualetti, born March 16, 1967, graduated in Biological Sciences in 1990 (Master) at the University of Tuscia, Italy, acquired domestic experience as a research assistant in the “Laboratorio di Micologia” and “Laboratorio di Microbiologia” of the Tuscia University.

In 1995 She entered the academic career as Curator of the Botanical Garden of the University of Tuscia (Viterbo, Italy).

Since 2001 She is Assistant Professor of Mycology (lecturer) at the University of Tuscia (Viterbo, Italy).

In 2021 she has been designated Scientific Director of the Botanical Garden of the University of Tuscia (Viterbo, Italy).

In 2022 she entered as Associate Professor of Botany at the University of Tuscia (Viterbo, Italy).

At the present, M. Pasqualetti is lecturer of Marine Mycology and Phycology at DEB and teaches “Biology of Algae and Marine Fungi” and “Biology of Plant”.

She directed many bachelor and Master diploma works.

She is head of the Laboratory of Ecology of Fungi, Bacteria and Algae (DEB) and the Laboratory of Marine Mycology of CoNISMA (Consorzio Nazionale Interuniversitario Scienze del Mare), University of Tuscia.

She was and is involved in the University of Tuscia management being member of various administrative bodies.

She is responsible (Scientific coordinator) since 2006 of various training courses in Phytotherapy and Nutrition: “Phytotherapy and officinal plants”, “Clinical Phytotherapy”, “Applied Phytotherapy” and “Science of nutrition” established within a collaboration between the Department of Ecology and Biology (DEB) and the private research center “Sintesi” (Viterbo, Italy).

She is member of the following International Scientific Societies: BENA, Balkan Environmental Association, and SBI: Società Botanica Italiana (Italian Society of Botany).

M. Pasqualetti major fields of interest:

- ◆ Fungal Ecology
- ◆ Taxonomy of fungi and microalgae
- ◆ Optimization and production of fungal and algae biomass, enzymes and metabolites.
- ◆ Enzymes and other bioactive molecules.
- ◆ Bio-diversity of marine and/or extreme microorganisms.

M. Pasqualetti published more than 50 papers mainly on international Journals with I.F. Her participation to international conferences is documented by more than 35 posters, oral communications or extended abstracts. He also published a Mycology book and some book chapters.

Most recent publications (2010-2022).

Poster and conference abstracts or papers are not included.

1. **Pasqualetti M.**, Bernini R., Carletti L., Crisante F., Tempesta S., 2010 - Salinity and nitrate concentration on the growth and carotenoids accumulation in a strain of *Dunaliella salina* (Chlorophyta) cultivated under laboratory conditions. *Transitional Water Bulletin*, 4: 42-52, ISSN: 1825-229X, doi: 10.1285/i1825229x.
2. Tempesta S, Paoletti M., **Pasqualetti M.**, 2010 - Morphological and molecular identification of a strain of the unicellular green alga *Dunaliella* sp. isolated from Tarquinia salterns. *Transitional Water Bulletin*, 4: 8-18, ISSN: 1825-229X, doi: 10.1285/i1825229x.
3. Persiani A.M., Tosi S., Del Frate G., Granito V.M., Guglielminetti M., Lunghini D., Maggi O., Mulas B., **Pasqualetti M.**, Picco A.M., Rambelli A., Rodolfi M., Solari N., Tempesta S., 2011 - High spots for diversity of soil and litter microfungi in Italy. *Plant Biosystem*, 145: 969-977, ISSN: 1126-3504, doi: 10.1080/11263504.2011.633113.
4. Belfiori B., Riccioni C., Tempesta S., **Pasqualetti M.**, Paolocci F., Rubini A., 2012 - Comparison of ectomycorrhizal communities in natural and cultivated *Tuber melanosporum* truffle grounds. *FEMS Microbiology Ecology*, 81(3): 547-561, ISSN: 0168-6496, doi: 10.1111/j.1574-6941.2012.01379.x.
5. **Pasqualetti M.**, Mulas B., Canzonetti G., Benedetti A., Tempesta S., 2012 - Effects of long-term heavy metal contamination on soil fungi in the Mediterranean area. *Cryptogamie Mycologie*, 33: 43-57, ISSN: 0181-1584, doi: 10.7872/crym.v33.iss1.2012.043.
6. Barghini P., Esti M., **Pasqualetti M.**, Silvi S., Aquilanti A., Fenice M. 2013. Inhibition of the ochratoxin-a producer *Aspergillus carbonarius* on white and red grapes by crude cell-wall degrading enzymes from the antarctic fungus *Lecanicillium muscarium* CCFEE 5003. *Journal of Environmental Protection and Ecology*, 14 (4): 1673-1679, ISSN: 1311-5065.
7. **Pasqualetti M.**, Mulas B., Rambelli A., Tempesta S. 2014. Saprotrophic litter fungi in a Mediterranean ecosystem: behaviour on different substrata. *Plant Biosystem*, 148(2): 342-356, ISSN: 1126-3504, doi: 10.1080/11263504.2013.877534.
8. Spadaro V, Raimondo F.M., **Pasqualetti M.** 2014. Molecular and taxonomic characterization of an endophytic fungus isolated from *Helleborus bocconeii* subsp. *intermedius* (Ranunculaceae). *Flora Mediterranea*, 24: 71-78, ISSN: 1120-4052, doi: 10.7320/FIMedit24.071.
9. **Pasqualetti M.**, Paoletti M., Fenice M., Tempesta S. 2014. Studi preliminari sulla biodiversità dei funghi marini isolati nell'area costiera dell'Isola del Giglio. XIV Giornata mondiale dell'acqua, Gestione sostenibile del Mediterraneo Roma 21 marzo 2014. Accademia Nazionale dei Lincei, Atti dei convegni dei Lincei 298:101-108**.
10. Bernini R., **Pasqualetti M.**, Provenzano G., Tempesta S. 2015. Ecofriendly synthesis of halogenated flavonoids and evaluation of their antifungal activity. *New Journal of Chemistry*, 39: 2980-2987, ISSN: 1144-0546, doi: 10.1039/C5NJ00258C.
11. **Pasqualetti M.**, Tempesta S., Malavasi V., Barghini P., Fenice M. 2015. Lutein Production by *Coccomyxa* sp. SCCA048 Isolated from a Heavy Metal-polluted River in Sardinia (Italy). *Journal of environmental protection and ecology*, 16: 1262-1272, ISSN: 1311-5065.
12. Malavasi V., Škaloud P., Rindi F., Tempesta S., Paoletti M., **Pasqualetti M.** 2016. The Pitfalls of DNA-based Taxonomy: a Reevaluation of the Species Concept within the Coccoid Green Algal Genus *Coccomyxa* (Trebouxiophyceae, Chlorophyta). *PLOS ONE*, 1-25, ISSN:1932-6203, doi: 10.1371/journal.pone.0151137.
13. Barghini P, **Pasqualetti M.**, Gorrasi S., Fenice M. 2018. Study of bacterial diversity of a saltern crystallisation pond ('saline di Tarquinia', Italy) and its correlation with salinity variations. *Journal of Environmental Protection and Ecology*, 19(1): 139-145, ISSN 1311-5065.
14. Barghini P., Giovannini V., Fenice M., Gorrasi S., **Pasqualetti M.** 2018. High lutein production by a halo-tolerant strain of *Dunaliella* sp. (Chlorophyceae) isolated from solar salterns in central Italy. *Journal of environmental protection and ecology*, 19(2): 704-712, ISSN 1311-5065.

15. Barghini P., **Pasqualetti M.**, Gorrasi S., Fenice M. 2018. Bacteria from the “Saline di Tarquinia” marine salterns reveal very atypical growth profiles with regards to salinity and temperature. *Mediterranean Marine Science*, 19(3): 513-525, Print ISSN: 1108-393X, Online ISSN: 1791-6763. doi: 10.12681/mms.15514.
16. Spadaro V., **Pasqualetti M.**, Faqi A.S., Raimondo F.M. 2018. From ethnobotany to experimental research: the therapeutic properties of Sicilian hellebore. *Flora Mediterranea*, 28: 247-252, doi: 10.7320/FIMedit28.247.
17. Gorrasi S., Pesciaroli C., Barghini P., **Pasqualetti M.**, Fenice M. 2019. Structure and diversity of the bacterial community of an Arctic estuarine system (Kandalaksha Bay) subject to intense tidal currents. *Journal of marine systems*, 196: 77-85, ISSN: 0924-7963, doi: 10.1016/j.jmarsys.2019.04.004.
18. **Pasqualetti M.**, Barghini P., Giovannini V., Fenice M. 2019. High production of chitinolytic activity in halophilic conditions by a new marine strain of *Clonostachys rosea*. *Molecules*, ISSN: 1420-3049, doi: 10.3390/molecules24101880.
19. Giovannini V., Barghini P., Gorrasi S., Fenice M., **Pasqualetti M.** 2019. Marine fungi: a potential source of novel enzymes for environmental and biotechnological applications. *Journal of Environmental Protection and Ecology*, 20:1214-1222, ISSN: 1311-5065.
20. Gorrasi S., Pesciaroli C., Barghini P., **Pasqualetti M.**, Giovannini V., Fenice M. 2019. Metagenetic profiling of the bacterial communities of an intertidal pool in Kandalaksha Bay (Witthe Sea, Russia). *Journal of Environmental Protection and Ecology*, 20: 1317-1324, ISSN: 1311-5065.
21. **Pasqualetti M.**, Giovannini V., Barghini P., Gorrasi S., Fenice M. 2020. Diversity and ecology of culturable marine fungi associated with *Posidonia oceanica* leaves and their epiphytic algae *Dictyota dichotoma* and *Sphaerococcus coronopifolius*. *Fungal Ecology*, 44, 100906, ISSN:1754-5048, doi: 10.1016/j.funeco.2019.100906.
22. Gorrasi S., **Pasqualetti M.**, Franzetti A., Pittino F., Fenice M. 2020. *Vibrio* communities along a salinity gradient within a marine salterns hypersaline environment (Saline di Tarquinia, Italy). *Environmental Microbiology*, doi: 10.1111/1462-2920.15041.
23. Botta L., Saladino R., Barghini P., Fenice M., **Pasqualetti M.** 2020. Production and identification of two antifungal terpenoids from the *Posidonia oceanica* epiphytic Ascomycota *Mariannaea humicola* IG100. *Microbial Cell Factories*, 19, ISSN: 1475-2859, doi: 10.1186/s12934-020-01445-7.
24. Gorrasi S., Franzetti A., Ambrosini R., Pittino F., **Pasqualetti M.**, Fenice M. 2021. Spatio-temporal variation of the bacterial communities along a salinity gradient within a thalassohaline environment (Saline di Tarquinia Salterns, Italy). *Molecules*, 26(5), 1338, doi: 10.3390/molecules26051338.
25. Gorrasi, S., **Pasqualetti M.**, Franzetti A., Gonzalez-Martinez A., Gonzalez-Lopez J., Muñoz-Palazon B., Fenice,M. 2021. Persistence of Enterobacteriaceae Drawn into a Marine Saltern (Saline di Tarquinia, Italy) from the Adjacent Coastal Zone. *Water*, 13(11), 1443, doi: 10.3390/w13111443
26. **Pasqualetti M.**, Gorrasi S., Giovannini V., Braconcini M., Fenice M. 2022. Polyextremophilic Chitinolytic Activity by a Marine Strain (IG119) of *Clonostachys rosea*. *MOLECULES*, vol. 27, ISSN: 1420-3049, doi: 10.3390/molecules27030688