

# CURRICULUM VITAE

EUROPEAN FORMAT

## PERSONAL INFORMATION



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## EDUCATION

Dates (from – to) 01/11/2003 - 02/10/2007

Doctorate degree in Evolutionary Biology and Ecology  
University of Rome "Tor Vergata"

Doctorate thesis: Structure and function of benthic microbial community in highly variable freshwater systems

## EMPLOYMENT

Dates (from – to) 16/10/2012 – on going

Senior researcher (Primo Ricercatore)

Istituto di ricerca sulle acque (IRSA-CNR)

Via Salaria, Km 29,300, 00015, Monterotondo, Rome, Italy

## FIELD OF EXPERTISE

Microbial ecology and diversity; Water quality; Flow cytometry

## ACTIVITIES AND RESPONSIBILITIES

10/2012 – on going

Head of the Flow Cytometry and Microscopy Lab at IRSA-CNR

08/2021 – on going

Selected external reviewer of the Italian National Agency for the Evaluation of the University and Research Systems (ANVUR)

11/2021 – on going

Elected board member of the Italian Society of Cytometry (GIC)

## BRIEF DESCRIPTION

I have been attending to the Microbial Ecology Group of the Water Research Institute (IRSA-CNR), by conducting researches in the field of Aquatic Microbial Ecology for the determination of the structural and functional diversity of microbial communities involved in the circulation of carbon and nutrients across aquatic environments on Earth and beyond. These studies find fundamental applications for the management of water resources in either natural or engineered systems. I authored >65 manuscripts in highly ranked international journals (h-index = 24; source: SCOPUS) and presented >80 invited talks in conferences of international relevance. Reviewer (>200 manuscripts for 72 scientific journals) and Associate Editor of the journals *Hydrobiologia* (Springer, ISSN: 0018-8158) and *Water* (MDPI, ISSN 2073-4441). Co-PI of 2 EU-H2020 projects and 2 EU WaterJPI projects, Co-PI of 1 national PRNA project. PI of 2 national projects (Accordi bilaterali CNR).

## RESEARCH EXPERIENCES

Participation to relevant  
European projects

2019 - on going. Eu project WaterJPI – MarAdentro “Managed Aquifer Recharge: Addressing the Risks of Recharging Regenerated Water”  
2016 - 2019. Eu project WaterJPI – ACWAPUR “Accelerated Water Purification during Artificial Recharge of Aquifers - A Tool to Restore Drinking Water Resources”.  
2016 – 2019. Eu project H2020 – BLOWYSE “Biocontamination integrated control of wet systems for Space Exploration”.  
2014 - 2018. Eu project FP7 - DEMOWARE “Innovation Demonstration for a Competitive and Innovative European Water Reuse Sector”.  
2012 - 2014. Eu project FP7 - PERSEUS “Policy-oriented marine Environmental Research in the Southern European Seas”.  
2006 - 2010. Eu project FP6 - SESAME “South European Seas: assessing and modelling ecosystem changes”.

## 10 MOST RELEVANT PUBLICATIONS

In the last 10 years.

- Pawlowski, J., Bruce, K., Panksep, K., Aguirre, F. I., Amalfitano, S., Apothéloz-Perret-Gentil, L., ... & Fazi, S. (2021). Environmental DNA metabarcoding for benthic monitoring: A review of sediment sampling and DNA extraction methods. *Science of The Total Environment*, 151783.
- Fazi, S., Amalfitano, S., Venturi, S., Pacini, N., Vazquez, E., Olaka, L. A., ... & Butturini, A. (2021). High concentrations of dissolved biogenic methane associated with cyanobacterial blooms in East African lake surface water. *Communications Biology*, 4(1), 1-12.
- Amalfitano, S., Levantesi, C., Copetti, D., Stefani, F., Locantore, I., Guarneri, V., ... & Rossetti, S. (2020). Water and microbial monitoring technologies towards the near future space exploration. *Water Research*, 115787.
- Zoppini, A., Bongiorno, L., Ademollo, N., Patrolecco, L., Cibic, T., Franzo, A., ... & Amalfitano, S. (2020). Bacterial diversity and microbial functional responses to organic matter composition and persistent organic pollutants in deltaic lagoon sediments. *Estuarine, Coastal and Shelf Science*, 233, 106508.
- Preziosi, E., Frollini, E., Zoppini, A., Ghergo, S., Melita, M., Parrone, D., ... & Amalfitano, S. (2019). Disentangling natural and anthropogenic impacts on groundwater by hydrogeochemical, isotopic and microbiological data: Hints from a municipal solid waste landfill. *Waste Management*, 84, 245-255.
- Amalfitano, S., Coci, M., Corno, G., and Luna, G. M. (2015). A microbial perspective on biological invasions in aquatic ecosystems. *Hydrobiologia* 746, 13–22.
- Havel, J. E., Kovalenko, K. E., Thomaz, S. M., Amalfitano, S., and Kats, L. B. (2015). Aquatic invasive species: challenges for the future. *Hydrobiologia* 750:147–170.
- Amalfitano, S., Del Bon, A., Zoppini, A., Ghergo, S., Fazi, S., Parrone, D., et al. (2014). Groundwater geochemistry and microbial community structure in the aquifer transition from volcanic to alluvial areas. *Water Res.* 65, 384–394. doi:10.1016/j.watres.2014.08.004.
- Yu, Z., Yang, J., Amalfitano, S., Yu, X., and Liu, L. (2014). Effects of water stratification and mixing on microbial community structure in a subtropical deep reservoir. *Sci. Rep.* 4.
- Proia, L., Lupini, G., Osorio, V., Pérez, S., Barceló, D., Schwartz, T., et al. (2013). Response of biofilm bacterial communities to antibiotic pollutants in a Mediterranean river. *Chemosphere* 92, 1126-1135.

## PRIVACY POLICY

Il sottoscritto è a conoscenza che, ai sensi dell'art. art. 76 del DPR 445/2000, le dichiarazioni mendaci, la falsità negli atti e l'uso di atti falsi sono puniti ai sensi del codice penale e delle leggi speciali. Inoltre, il sottoscritto autorizza al trattamento dei dati personali, secondo quanto previsto dalla Legge 196/03.

Rome, 09/06/2020

