

Flavia De Nicola

Dip. di Scienze e Tecnologie

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Previous positions

2003 PhD in TERRESTRIAL ECOLOGY University of Naples

2003-05 RESEARCH CONTRACTS on projects “Testing an operational model for the use in agriculture of compost deriving from recycling of municipal solid waste”, “Use of compost to reclaim degraded soils and quarries”, University of Naples and CRA

2005-06 POST DOC FELLOWSHIP “Polycyclic aromatic hydrocarbons (PAHs) in holm oak leaves and soils of sites at different impact in Campania region. PAH cycle in nature” University of Salerno

2007-2020 ASSISTANT PROFESSOR of Ecology University of Sannio

CURRENT POSITION: ASSOCIATE PROFESSOR of Ecology University of Sannio. She leads the Ecology Group with researches on role of soil microbial communities in restoration of degraded soils and ecosystem stability, monitoring and effects of pollutants on terrestrial ecosystems. Among the current collaborators: Picariello (RTDa), Esposito (Ph.D. student), graduate, undergraduate students

Prizes and awards

2001 Qualification to profession of Biologist

2003 Qualification for one research grant position in “Evaluation and control of the effects of industrial origin pollutants and/or of weeds on the productivity and quality of agricultural plant species”, ENEA

2005 Qualification for one researcher position, ENEA

2005 Winner for one-year researcher position, APAT

2005, 2006 Qualification for one Assistant Professor position in Ecology G.U., University of Naples and University of Salerno

2008 Futuro in Ricerca (FIRB) Project with a score of 40/40 has been judged fundable if the available resources allow. Definition of Polycyclic Aromatic Hydrocarbon (PAH) baseline in soils of holm oak forests of the Campania Region and assessment of contamination degree of urban soils. Community diversities, toxic effects and isolation of microorganisms useful in PAH degradation.

2018 PhD funding, POR Campania FSE 2014/2020, project title: Development and application of moss biosensors of PAH pollution

2022 Associated investigator PRIN PNRR, project title: Enhancement of Microbial and plant Biodiversity by Restoration of degraded soils in Mediterranean Areas through marine Compost and zeolites Exploitation (EMBRACE)

Visiting academic positions

2014-22 VISITING RESEARCHER at University of A Coruña, Spain

INTERNATIONAL COLLABORATIONS

ECOLOGY UNIT, Universidade de Santiago de Compostela, Spain, led by Proff. J.A. Fernández Escribano and J.R. Aboal
QANAP (APPLIED ANALYTICAL CHEMISTRY) RESEARCH GROUP, Universidade da Coruña, Spain, led by Prof. S. Munitegui-Lorenzo
MICROBIAL ECOLOGY GROUP, Lund University, Sweden, led by Emeritus Prof. E. Baath

Teaching activities and PhD supervision

Teaching

2007-24 Ecology, 2023-24 Didactics of Ecology, 2022-24 Analyses and conservation of ecosystems, 2020-21 Ecosustainability of agri-food systems, 2009 Ecotoxicology, 2007-09 Environmental Botany University of Sannio

2015-22 Erasmus Teaching Programme

2003-2007 Applied ecology, Management of Ecological data, University of Salerno, and Naples

PhD Supervision

Tutor Erasmus Mundus Leader Program

PhD Tutor: Study of soil microbial communities of 3 forests on Matese Mountains (Southern Italy) through classical and innovative approaches (Dr Grosso XXVI cycle); Soil PAH biodegradation: a focus on indigenous edaphic microbial communities in Mediterranean forests (Dr Picariello 32° cycle); Development and application of moss biosensors for environmental monitoring (Dr Carrieri 34° cycle), Dr Esposito (38° cycle) 2019, 2017, 2015 External reviewer 1 Thesis for Environmental and Natural Resources PhD, University of Santiago de Compostela; 2 Thesis for Fundamental Environmental Chemistry PhD, University of A Coruña Spain
2017 Member Thesis Defense Committee for Population biology and ecology PhD, University Montpellier3 France

Other work experience (e.g. consultancy if any)

External Expert for Benevento Municipality for Quality air monitoring (2020 to date)

- Administrative role and position responsibility

- Member of the evaluation commission for RTD/a position in Ecology University of Udine (2022)
- Rector delegate for Student welfare and services, University of Sannio (2021 to date)
- Member of working group for Social responsibility and sustainability report, University of Sannio (2021)
- Member of the evaluation commission for the extension of RTD/a position in Ecology University of Naples (2021)
- Member of Re-exam Group SUA-CdS in Master in Biology, University of Sannio (2021-2022)
- Member of the State Exam Commission for the qualification to practice the profession of "Biologist" Section A and B " (2020)
- Member of the "Climate Change" Working Group, Network of Universities for Sustainable Development (RUS), for the University of Sannio (2020 to date)
- Member of the Internationalization Commission of the Dept Sciences and Technology, University of Sannio (December 2019 to date)
- Member of PhD committees in Life and Earth science, University of Sannio (2007-2013)

and Science and technology for environment and health, University of Sannio (2013 to date)

- Member of the Commission for the Regulation governing teaching assignments, art 6 and 23 L 240 30/12/2010, University of Sannio
- Head Lab of Ecology, University of Sannio (2007 to date)

- Scientific organisations/Coordination of academic activities

- Coordinator of working group for Student services Strategic plan (2021)
- Scientific coordinator of PLS Biology and Biotechnologies for the University of Sannio (2017-2018)
- Coordinator Woman in Science day, Dept Sciences and Technology, University of Sannio (2017- 2019)
- Coordinator Orientation Commission of the Dept Sciences and Technology, University of Sannio (2017- 2019)
- Organisation committee of XXVII Congress of Ecology Italian Society S.It.E., Naples, 12-15 September 2017
- Organisation committee of workshop "Monitoring in anthropised environment and in Antarctic", Fisciano (SA), 12 December 2016

Editorial activity

Guest Editor Process: Special Issue "Role of Microorganisms in Remediating Contaminated Soils" MDPI

Editorial Board Process MDPI

Editorial Board of Functional Plant Ecology (specialty section of Frontiers in Plant Science).

Reviewer activity for: Applied Soil Ecology, Atmospheric Environment, Chemosphere, Ecological indicators, EcoToxicology and Environmental Safety, Environmental Pollution, Environmental Research, Environmental Science Pollution Research, Environmental Science & Technology, iForest, Journal of Environmental Management, Journal of Plant Nutrition and Soil Science, The Science of the Total Environment, Talanta, Urban forestry & Urban greening

Translator of chapters "Biogeography" and "Species Diversity in Communities" of textbook "Ecology" Cain et al. Oxford University Press

Author of a chapter "Comparison of Lichen and Moss Bags as Monitoring Devices of Airborne Trace Elements and PAHs" in: Aničić et al (Eds), Biomonitoring of Air Pollution Using Mosses and Lichens: A Passive and Active Approach – State of the Art Research and Perspectives, Nova Science Publishers, ISBN: 978-1-53610-212-3

Author of more than 50 papers.

Membership of scientific societies

Italian Society of Ecology (SIte)

Italian Society of Soil Science (SISS)