

DE NICOLA Flavia

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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.

2007-2020 ASSISTANT PROFESSOR of Ecology University of Sannio

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

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

2003 PhD in TERRESTRIAL ECOLOGY University of Naples

RESEARCH PROJECTS COORDINATION AND PARTICIPATION

Associate Investigator Development of methodologies and prototypes for the treatment and disposal of disaster and hazardous wastes generated by a natural or anthropogenic event and for the management of the risk of water, air and soil pollution GRISIS - Gestione dei Rischi e Sicurezza delle Infrastrutture a Scala Regionale” POR CAMPANIA FESR 2014/2020.

Principal Investigator Bioremediation of soils from industrial areas contaminated by polycyclic aromatic hydrocarbons: evaluation of indigenous microbial activity and monitoring of bioremediation process in a lab scale study LR5 2008.

EUROPEAN PROJECT 7 FRAME PROGRAM Creating and testing a method for controlling the air quality based on a new biotechnological tool. Use of a devitalized moss clone as passive contaminant sensor.

POR CAMPANIA 2007/2013 SENSOR-Development of biosensors for the assessment of water and soil contamination.

PRIN 2007 Emission, transport, deposition and monitoring of contaminants from vehicular traffic. Effects on biodiversity and functioning of Mediterranean holm oak stands.

PRIN 2004 Level II risk assessment of ozone exposure for Mediterranean vegetation. Experimental analyses in laboratory under controlled conditions and in field, measurements and modelling of ozone fluxes.

PRIN 2000 Bioindication and passive and active biomonitoring of atmospheric pollutants (nitrogen oxides, sulfur dioxide, polycyclic aromatic hydrocarbons, ozone, trace elements) by trees and herbaceous plants.

PROGRAMMA INTERREGIONALE 2003/2006 Collaudo di un modello operativo per l'utilizzazione in agricoltura di compost proveniente da raccolta differenziata dei rifiuti solidi urbani. Interventi di filiera per lo studio e la messa a punto di un sistema chiuso di rigenerazione e riutilizzo delle materie organiche di scarto per una agricoltura ecosostenibile

PON MIUR 2002/2006 Piattaforme evolute di telecomunicazioni e di information technology per l'offerta di servizi al settore ambiente

LR5 2002 Possibilità di utilizzo di vari tipi di compost per il recupero di suoli degradati e di cave

LIFE 99 NAT/IT/006279 Verifica della rete natura 2000 in Italia e modelli di gestione

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. Munitégui-Lorenzo

MICROBIAL ECOLOGY GROUP, Lund University, Sweden, led by Emeritus Prof. E. Baath

TEACHING ACTIVITIES AND PhD SUPERVISION

Teaching

2007-22 Ecology, 2020-21 Ecosustainability of agrifood systems, 2009 Ecotoxicology, 2007-09 Environmental Botany University of Sannio

2015-22 Erasmus Teaching Programme

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 for Environmental and Natural Resources PhD, University of Santiago de Compostela; for Fundamental Environmental Chemistry PhD, University of A Coruña Spain

2017 Member Thesis Defense Committee for Population biology and ecology PhD, University Montpellier3 France

ADMINISTRATIVE ROLE AND POSITION RESPONSIBILITY

Member of the evaluation commissions for RTD/a position in Ecology

Rector delegate for Student welfare and services, University of Sannio

Member of working group for Social responsibility and sustainability report, University of Sannio

Member of Re-exam Group SUA-CdS in Master in Biology, University of Sannio

Member of the State Exam Commission for the qualification to practice the profession of "Biologist" Section A and B "

Member of the "Climate Change" Working Group, Network of Universities for Sustainable Development (RUS), for the University of Sannio

Member of the Internationalization Commission of the Dept Sciences and Technology, University of Sannio

Member of PhD committee in Science and technology for environment and health, University of Sannio

Member of the Commission for the Regulation governing teaching assignments, art 6 and 23 L 240 30/12/2010

External Expert for Benevento Municipality for Quality air monitoring

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

Editorial Board Process MDPI

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

Editorial Board Natural Resources Conservation and Research (ISSN 2578-1936)

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

Membership of scientific Italian Society of Ecology (SIte) societies Italian Society of Soil Science (SISS)