

## CURRICULUM VITAE AND STUDIORUM MASCIANDARO GRAZIA



### PERSONAL DATA

Birth date: 19/July/1967 - place: Matera - Italy  
Graduated in Biology - University of Pisa, 1991  
Title: doctor  
Position: Senior researcher

### PLACE OF WORK AND INSTITUTION

Institute of Ecosystem Study (ISE) - National Council of Research (CNR) - Pisa (Italy)

### AREA OF SPECIALIZATION

Soil chemistry and biochemistry - Soil fertility and pollution - Soil enzymology - Soil organic matter - Humic substances – Wastewaters purification and recycling in soil - Sludge composting and soil amendment - Soil mulching - Soil ecosystem functionality - Biomonitoring - Bioremediation of soils and sediments.

### SELECTED SCIENTIFIC ACTIVITY

#### National

**2012-2013** Responsible of the Project: "Application of phytotreatment technique to Hg contaminated soil funded by Chemical Society Larderello S.P.A

**2011-2012** Responsible of the project "Possibilità di impiego dei fanghi di dragaggio nelle pedotecnologie per il recupero di suoli in aree degradate" funded by Sardinia Region

**2011-2012** Responsible of the project: "Study of a phytodepuration process of waste water with non-conventional plant species" funded by San Giuliano Terme (Pisa) Municipality.

**2003-2010** Responsible of the project " Phytomineralization of biological sludges" funded by Acque S.p.A. (Pisa)

**2006-2008** Responsible of the Project "Bioremediation of a landfill located in Madonna dell'Acqua (Pisa) through natural techniques", funded by the Municipality of San Giuliano Terme (Pisa)

**2003** Responsible of the Project: "Biostabilization of biological sludges through the system BIOE-Gore to produce a composted amendment", funded by the society AQUASER (Volterra-Pisa)

**1997** Member of the CCD (Convention to Combat Desertification) of the United Nations Non-Governmental Organization (NGO)

#### International

**2013-2016** Responsible of European Project LIFE CLEANSED 12 ENV/IT/000652 "Innovative Integrated Methodology for the use of decontaminated river sediments in plant nursing and road building" (0171072013-31/03/2016)

**2013-2015** Coordinator of the European project LIFE BIOREM LIFE11 ENV/IT/113 "Innovative System for the Biochemical Restoration and Monitoring of Degraded Soils"

**2009-2012** Responsible of the European project AGRIPORT. ECO/08/239065/SI2.532262 "Agricultural Reuse of Polluted Dredged Sediments".

**2006-2008** Responsible of the European Project "Progetto pilota Biosoil: indagini sui suoli nei punti di Liv. I e le aree di Liv. II della Rete CONECOFOR"

**2005-2008** Responsible of European Project ALMOND PRO-SOIL LIFE 05-ENV-000288 "Soil Protection in Mediterranean Areas through Cultivation of new Varieties of Almond Tree"

**2007** Nomination as responsible of the expert group (EG V) "Soil chemical analyses" in the Expert Panel on soil and soil solution in the European framework "Biosoil"

**2004-2006** Scientific Responsible of the program about Humus Biochemistry (WP4 Chemistry) in the framework of the European Project STREP INDEX – Indicators and Thresholds for Desertification, Soil Quality, and Remediation (Contract no. 505450)

**2005-2006** Responsible of the project CNR-CSIC "Studio della biodiversità microbica e delle funzioni biochimiche dell'humus in suoli inquinati da idrocarburi" (Masciandaro-Benitez)

**2005** Member in a Spanish Commission for the European Doctoral Tesis "Procesos de Degradacion y Contaminacion de suelos de zonas semiaridas. Incidencia sobre su actividad microbiana" (Dr. Mariela del Rosario Quevedo Dioses, Universidad Politecnica de Cartagena, Cartagena, Murcia, Spagna)  
**2004-2005** Participant in the National Working Group to coordinate the activities of the "European Soil Thematic Strategies" in order to plan the legislative instruments on Soil Protection  
**1997-2006** Leader of an International Project CNR-CSIC (Italy-Spain) on soil quality and management (Masciandaro – Garcia).  
**2001** Stage of 21 days at CEBAS-CSIC (Murcia - Spain) carrying out studies about phenoloxidase methodology for soil humification and soil decontamination. CNR Fellowship  
**1997** and **2000** Stages of 6-months at Way College, Univ of London (Kent) carrying out field experiments with mulching materials studying the effects on soil biochemistry. CNR fellowship and OECD fellowship, respectively

#### PATENTS

**2012** Iannelli R, Masciandaro G, Ceccanti B, Bianchi V, Doni S (2012). Methodology for the treatment of dredging sediments through phyto-remediation and plant which realize this technique. PI2012A000013 National registration date: 01/01/2012.  
**2007-2008** Pub. No.:WO/2008/084396 "PROCESS FOR BIOSTABILIZATION AND HUMIFICATION OF BIOLOGICAL SLUDGE IN PLANTED FILTERING BEDS", CNR-ACQUE S.p.A. Inventori: AIELLO Massimo; PERUZZI Paolo; CECCANTI Brunello; MASCIANDARO, Grazia; STURCHIO Rocco; ARBI Marco; PERUZZI Eleonora. National Registration date: 12/01/2007 n° PI2007A000003; International registration date: 14/01/2008 n° PCT/IB2008/000069.

#### SPECIAL ROLES:

**2014** Qualification to **Professor (highest level) by Italian Ministry of Education and Research** for the sector 07/E1 - Soil Chemistry  
**2011** Appointment as an expert in the topic of soil remediation for attendance in the network RECONNET (Italian Network on management and remediation of contaminated sites)  
**2011** Member of three international PhD Commissions in Spain on soil quality.  
**2011** President of the international PhD Commission "Sewage Sludge Treatment in Constructed Wetlands: Technical, economic and environmental aspects applied to small communities of the Mediterranean Region" of Enrica Uggetti (Supervisors: Joan Garcia Serrano, Iveta Ferrer), Universitat Politecnica de Catalunya, Barcellona, 30/09/2011  
**2010-2011** Head of research group "Biomolecular Technologies applied to the soil" and "Functional Microbial Proteins" relating to the research "Environmental Technologies" of the DTA.  
**2010-2011** Attendance as an expert member of an international pool of reviewers related to the "Agencia Nacional de Evaluación y Prospectiva (ANEP)" for the evaluation of scientific projects.  
**2010** Certificate of Excellence, University of Bioterra, Bucarest (Romania).

**DIDACTIC ACTIVITY:** (2004-2011) Contract Professor at University of Pisa, Faculty of Medicine and Biology. Courses on the topic of Ecology and Soil Enzimology. Supervisor of Biology, Agronomy, Engineering and Environmental Science Master and Doctoral Thesis.

**PUBLICATION:** Authored and co-authored of more than 200 papers (40% on International Journals)

**LANGUAGES:** English, Spanish