



**PERSONAL INFORMATION** **PATRIZIA PAGANIN**

**📍** ENEA, Italian National Agency for New Technologies, Energy and Sustainable Economic Development, Department for Sustainability, Via Anguillarese 301, Rome

**☎** +390630483710 **📠** +393477010504

**✉** [patrizia.paganin@enea.it](mailto:patrizia.paganin@enea.it)

Sex Female | *Date of birth* 07/10/1976 | *Nationality* Italian

Enterprise	University	EPR
<input type="checkbox"/> Management Level	<input type="checkbox"/> Full professor	<input type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist / Principal Investigator
<input type="checkbox"/> Mid-Management Level	<input type="checkbox"/> Associate Professor	<input type="checkbox"/> Level III Researcher and Technologist
<input type="checkbox"/> Employee / worker level	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator <input type="checkbox"/> X Post-doctoral Researcher

**WORK EXPERIENCE**

From July 2020 to present

**Postdoctoral researcher**

ENEA-Casaccia, via Anguillarese 301, 00123 Rome, Italy

-Development of microbial biotechnologies for environmental remediation and recovery of materials from manufacturing waste; -Systematic and applicative study of new bio-based products for sustainable restoration: use of microbial technologies and biomaterials produced from vegetable waste; -Management of an "in-house" ENEA bacterial collection of applicative interest.

From June 2018 to January 2020

**Postdoctoral researcher**

University of Cagliari - Department of Chemical and Geological Sciences, Cittadella Universitaria, 09042 Monserrato (CA)

-Development of contaminant abatement systems and technologies for the reuse and enhancement of mining and industrial residues, by selected bacterial strains; -Development of bacterial inocula and "bioaugmentation" strategies to reduce the use of water, fertilizers and pesticides by promoting sustainable agricultural production

From January 2016 to May 2018

And from February to April 2014

**Substitute teacher in chemistry, biology and maths**

Public lower and upper secondary school

From May 2014 to September 2015

**Contract for coordinated and continuous work**

University of Cagliari - Department of Chemical and Geological Sciences, Cittadella Universitaria, 09042 Monserrato (CA)

-Development of innovative bioremediation strategies for the recovery of degraded areas: targeted selection of bacterial inocula and native plant biomass for field experimentation

From October 2013 to January 2014

**Contract for coordinated and continuous work**

Ylichron s.r.l. Enea spin-off company, via Anguillarese 301, 00123 Rome, Italy

-Development of molecular procedures for quality control, in terms of microbial contamination, of commercial lettuce samples.

From September 2012 to August 2013

**Project-based work**

Italian cystic fibrosis research foundation (ffc-Onlus) c/o ENEA-Casaccia, via Anguillarese 301, 00123 Rome, Italy

-Use of molecular biotechnology for the characterization of bacterial communities found in the sputum of cystic fibrosis patients

- From October 2006 to April 2012 **Postdoctoral researcher**  
 ENEA-Casaccia, via Anguillarese 301, 00123 Rome, Italy  
 -Use of microbial biotechnologies for bioenergetic applications of innovative use of residual biomass of the agri-food sector
- From May 2006 to July 2006 **Contract for coordinated and continuous work**  
 Ylichron s.r.l. Enea spin-off company, via Anguillarese 301, 00123 Rome, Italy  
 -Biotechnological use of hydrogen-producing bacterial species (from water and sediment), to be used for the valorisation of residual biomass of the agri-food sector
- August 2005 **Visiting scientist**  
 Center for the Genomic Sciences – National Autonomous University of Mexico (UNAM), Cuernavaca, Morelos, Mexico  
 -Isolation from soil and characterization of plant growth promoting microbial strains, opportunistic pathogens, belonging to the genus *Burkholderia*
- From 2004 to 2006 **Volunteer**  
 ENEA-Casaccia, via Anguillarese 301, 00123 Rome, Italy – UTS-BIOTEC Microbiology laboratory  
 -Internship trainer for the identification and characterization, by means of biomolecular techniques, of corn rhizosphere bacteria belonging to the genus *Burkholderia*.

## EDUCATION AND TRAINING

- From 2006 to 2009 **PhD in Ecology and Management of Biological Resources (XXII cycle)**  
 University of Viterbo “la Tuscia” - Department of Ecology and Sustainable Development (DECOS).
- 2002 **Master Degree in “Environmental Sciences” cum laude**  
 University of Viterbo “la Tuscia”

**WORK ACTIVITIES** -Development of microbial biotechnologies for environmental remediation and recovery of materials from manufacturing waste; -Systematic and applicative study of new bio-based products for sustainable restoration: use of microbial technologies and biomaterials produced from vegetable waste; -Management of an "in-house" ENEA bacterial collection of applicative interest.

**Editorial activity** Reviewer in international scientific journals  
 Member of: Italian Society of General Microbiology and Microbial Biotechnologies (SIMGBM) and International Biodeterioration & Biodegradation Society (IBBS)

## PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s) English LISTENING: B2 READING: C1 UNDERSTANDING: C1 SPOKEN PRODUCTION: B1 SPOKEN INTERACTION: B2 WRITING C1

Job-related skills Good ability to plan experiments and organise scientific research work. Aptitude for teamwork.

Digital skills    Microsoft Office, programs for DNA sequence alignment

## ADDITIONAL INFORMATION

### Publications

total number of publications in peer-review journals: 36  
total number of citations: 626  
H index: 10

P. PAGANIN, C. Alisi, E. Dore, D. FAnello, PA Marras, D. Medas, MR MONTEREALI, S. NAITZA, N. RIGONAT, AR. SPROCATI, F. TASSO, S. VACCA, G. DE GIUDICI, 2021 "Microbial diversity of bacteria involved in biomineralization processes in mine-impacted freshwaters." *Front. Microbiol.* 12:778199.

L. DADDIEGO, L. BIANCO, C. CAPODICASA, F. CARBONE, C. DALMASTRI, L. DARODA, A. DEL FIORE, A., P. DE ROSSI, M. DI CARLI, M. DONINI, L. LOPEZ, A. MENGONI, P. PAGANIN, G.

PERROTTA, A. BEVIVINO, 2018, "Omics approaches on fresh-cut lettuce reveal global molecular responses to sodium hypochlorite and peracetic acid treatment." *J. Sci. Food Agric.*, 98(2):737-750.

P. PAGANIN, E.V. FISCARELLI, V. TUCCIO, M. CHIANCIANESI, G. BACCI, P. MORELLI, D. DOLCE, C. DALMASTRI, A. DE ALESSANDRI, V. LUCIDI, G. TACCETTI, A. MENGONI, A. BEVIVINO, 2015. "Changes in Cystic Fibrosis Airway Microbial Community Associated with a Severe Decline in Lung Function." *PLoS ONE* 10(4): e0124348.

A. BEVIVINO, P. PAGANIN, G. BACCI, A. FLORIO, SAMPEDRO PELLICER M., M.C. PAPALETTO, A. MENGONI, L. LEDDA, R. FANI, A. BENEDETTI, C. DALMASTRI, 2014 "Soil Bacterial Community Response to Differences in Agricultural Management along with Seasonal Changes in a Mediterranean Region". *PLoS ONE* 9(8): e105515.

P. PAGANIN, L. CHIARINI, A. BEVIVINO, C. DALMASTRI, A. FARCOMENI, G. IZZO, A. SIGNORINI, C. VARRONE, S. TABACCHIONI, 2012. "Vertical distribution of bacterioplankton in Lake Averno in relation to water chemistry" *FEMS Microbiology Ecology*. 84(1):176-88

### Projects

PNRR RETURN 2023- in progress

ERANETMED2-72-094:

SUPREME 2018-2020 "developing tools for SUSTAINABLE food PRODUCTION in MEDITERRANEAN area using MicroBES"

POR Sardegna FESR 2014/2020:

TESTARE: "TECNOLOGIE E STRUMENTI DI CARATTERIZZAZIONE E GESTIONE AVANZATA DELL'AMBIENTE"

Convenzione RAS-Sardegna Ricerche:

CESA.: "Centro di eccellenza per la sostenibilità ambientale - "Tecnologie innovative per il miglioramento della qualità delle acque di drenaggio di miniera con recupero e abbattimento dei metalli pesanti"

FESR PON Governance e Capacità Istituzionale 2014-2020:

ESPA: "Energia e Sostenibilità per la Pubblica Amministrazione"

### Other Relevant Information

Partner of Around Culture srl (<http://www.aroundculture.com/en/>) as scientific manager for projects and research promoting biotechnology and technological innovation; synergy between public and private research institute; cultural and creative industries; recovery and rehabilitation of degraded areas, environmental conservation, sustainable management and use of natural resources, training and dissemination.

Rome, 12/02/2024

