PERSONAL INFORMATION

Daniela Cuna

ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development),
Department for Sustainability
Division Biotechnologies and Agroindustry
Biotechnologies and Agri-Food Sustainability, Quality and Safety Laboratory Affiliation
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Sex: F | *Date of birth* 28/11/1960 | *Nationality* Italian

Enterprise	University	EPR
☐ Management Level	☐ Full professor	☒ Research Director and 1st level Technologist / First Researcher and 2nd level Technologist / Principal Investigator
☐ Mid-Management Level	☐ Associate Professor	☐ Level III Researcher and Technologist
☐ Employee / worker level	☐ Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	☐ Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

01/07/2015 – to today

ENEA
Researcher

Research scientist – Laboratory Agri-food Sustainability, Quality and Safety
Cittadella della Ricerca SS7 km 706 72100 Brindisi. https://www.brindisi.enea.it/

- Improvement and strengthening of the Italian network of microbial collections, within the JRU MIRRI-IT, Italian network of microbial culture collections operating in different sectors (clinical, food, environmental, agricultural, cultural heritage, etc.). Responsible for the C.R. ENEA of Brindisi of the project PNRR SUS-MIRRI.IT "Strengthening the MIRRI Italian Research Infrastructure for Sustainable Bioscience and Bioeconomy" - Funded by the European Union – Next Generation EU – Missione 4, Componente 2.
- Database processing of biomolecules from food losses and waste for the production di upcycled food e non food – Research Grant Tutor Bando Riparti Puglia AVVISO PUBBLICO n. 3/FSE/2021 POC PUGLIA FESR-FSE 2014/2020 Fondo Sociale Europeo.
- Determination of shelf-life, sensory analysis, nutritional aspects with evaluation of the biological activity of 3D products in in vitro models.
- Study of decarbonization of agri-food system. Member of the task force for the BIOAG Division.
- Study of the soil microbiome and the agro-ecological transitions of agricultural systems.
- Development of processes to produce biodegradable and compostable packaging from waste of the agro-industrial sector.
- Member of the One Planet Network - Sustainable Food System (SFS) Program working group - "Plastics Packaging Initiative Program".
- Member of the ICESP Platform (Italian Platform for the Circular Economy) - "Plastic" subgroup
- Scientific Coordinator for the BIOAG Division of the ENEA and MiTE contract "Biofuels, Sustainable Industrial Areas, Integrated Environmental Authorizations" (BAIAS).
- ENEA Project Manager of the "IONian Integrated marine Observatory" (IONIO) Project – European Territorial Cooperation Program Greece – Italy 2007-2013.

20/05/2010 - 30/06/2015

Research scientist –Department of Materials - Lab ENEA Brindisi Research Centre (Brindisi, Italy)
Cittadella della Ricerca SS7 km 706 72100 Brindisi. https://www.brindisi.enea.it/

- Production of innovative materials with reduced environmental impact

15/01/2002 – 19/04/2010

C.R. ENEA Trisaia
S.S. 106 Ionica, km 419+500 - 75026 Rotondella (MT). https://www.trisaia.enea.it/

Development of environmentally friendly processes to convert lignocellulosic materials and agroindustry waste into biofuels and industrial products of high added value.

EDUCATION AND TRAINING

18/11/1996 PhD in Fundamental Ecology (VIII cycle)
University of Lecce – Ecology Institute, Italy

16/12/1992 Professional Qualification to Biology - University of Siena, Italy

12/07/1991 Degree in Biological Science
University of Siena - Department of Environmental Biology, Italy

WORK ACTIVITIES

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s) English B1

Job-related skills Good communication and organizational skills, coordination/participation at several research projects and tasks of research project.

Digital skills Competent with most Microsoft Office Programmes (Excel, Word, Publisher), Windows.
Video conferencing platforms (MS Teams, Zoom, Webex, Skype), Collaboration Tools (Google Gmail, Google Drive)

ADDITIONAL INFORMATION

Publications

total number of publications in peer-review journals: 10
total number of citations: 161
H index: 6
Scopus ID: 6507302946
https://orcid.org/0000-0003-1380-1977
https://www.researchgate.net/profile/Daniela-Cuna-2/stats/report/weekly/2024-02-04
https://scholar.google.com/scholar?hl=it&as_sdt=0%2C5&q=cuna+daniela&oq=Cuna+d

- De Bari I., Cuna D., Di Fidio N. - BIOREFINERIES: Biofuels, Biochemicals and Bioproducts. In Handbook Biofuels Production and Processing Technology. Chapter 19, Pages 533-568, 2017. Ed. Riazi M.R. and Chiaromonti D. Published by CRC Press/Taylor & Francis Group Cat K29842; ISBN: 978-1-4987-7893-0.
- Donatelli, D. Cuna, M.A. Tagliente, M.L. Protopapa, A. Mevoli, P. Aversa, C. Blasi, L. Capodieci, V.A.M. Luprano - Effect of treatments on the aging behaviour of hemp fibres for building construction in the Mediterranean Area. Journal of Building Engineering, Vol. 11, 2017, Pages 37-47. http://dx.doi.org/10.1016/j.jobe.2017.03.013.
- De Riccardis MF., Carbone D., Cuna D. - Electrophoretic deposition of lignin reinforced polymer coatings. Key Engineering Materials, Vol 654, Chapter VII Polymers and Composite Coatings, pp 247-251, Jul 2015. Ed. A.R. Boccaccini, J.H. Dickerson, B. Ferrari, O. Van der Biest and T. Uchikoshi. DOI 10.4028/www.scientific.net/KEM.654.247
- De Bari I., Cuna D., Di Matteo V., Liuzzi F. - Bioethanol production from steam-pretreated corn stover through an isomerase mediated process. New Biotechnology, Vol. 31, Issue 2, 25 March 2014, Pages 185-95. http://dx.doi.org/10.1016/j.nbt.2013.12.003, Ed. Elsevier.
- De Bari I., De Canio P., Cuna D., Liuzzi F., Capace A., Romano P. - Bioethanol production from mixed sugars using *Scheffersomyces stipitis* free and immobilized cells, and co-cultures with Saccharomyces cerevisiae. New Biotechnology, Vol. 30, Issue 6, 25 September 2013, Pages 591-597. http://dx.doi.org/10.1016/j.nbt.2013.02.003, Ed. Elsevier.
- De Bari I., Cuna D., Nanna F., and Braccio G. - Ethanol production in immobilized-cell bioreactors

from mixed sugar syrups and enzymatic hydrolysates of steam-exploded biomass. Applied Biochemistry and Biotechnology 2004 Vol. 113-116, Pages 539-557, Humana Press Inc., Totowa, New Jersey.

- F. Zimbardi, D. Viggiano, F. Nanna, M. Demichele, D. Cuna, G. Cardinale - Steam Explosion of Straw in Batch and Continuous System. Applied Biochemistry and Biotechnology, Vol. 77-79, 117-125. Humana Press Inc., Totowa, New Jersey, 1999.
- Miceli A., Cuna D., Viggiano D., De Leo P. - Integrated treatments of steam explosion and enzymatic hydrolysis to produce energetic and industrial products from lignocellulosic biomasses. AGRO food INDUSTRY HI-TECH, International Journal for Green Chemistry, 7 (3), 25-28, 1996.

Projects

- PNRR SUS-MIRRI.IT “Strengthening the MIRRI Italian Research Infrastructure for Sustainable Bioscience and Bioeconomy” - Funded by the European Union –Next Generation EU – Mission 4, Component 2.
- Delisoil Project “Delivering, safe, sustainable, tailored & socially accepted soil improvers from circular food production processes for boosting soil health”. Horizon Europe Programme, call HORIZON-MISS-2022-SOIL-01-01 (Research and Innovation actions to support the implementation of the Soil health and Food Mission), Topic: HORIZON-MISS-2022-SOIL-01-02: Improving food systems sustainability and soil health with food processing residues. Type of Action: HORIZON-RIA).
- SIMBA Project “Sustainable innovation of microbiome applications in food system”. EU-HORIZON SIMBA (Grant Agreement N.818431). Innovation Action (IA).
- EJP SOIL “Towards climate-smart sustainable management of agricultural soils”. European Joint Programme on Agricultural Soil Management.

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