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| **CV date** |  22/10/2016 |

**Part A. PERSONAL INFORMATION**

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| First and Family name | Sonia Manzo |
| Social Security, Passport, ID number | CI AT 7538601 | Age | 47 |
| Researcher numbers | Researcher ID | ENEA 50452 |
| Orcid code |  |

**A.1. Current position**

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| Name of University/Institution | ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development) |
| Department | Sustainability of Production and Territorial Systems (SSPT) |
| Address and Country | ENEA-Headquarters Lungotevere Thaon di Revel, 76 - 00196 ROMA ItalyPortici Research Centre- P.le E.Fermi , 1 80055 Portici Napoli Italy |
| Phone number | +390817723322 | E-mail | sonia.manzo @enea.it |
| Current position | Senior Researcher | From | 31-12-2008 |
| ERC code | LS8 (Eco Toxicology) |
| Key words | Aquatic and terrestrial Ecotoxicology-Nanotoxicology |

**A.2. Education**

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|  | University | Year |
| MSc (Molecular Biology) | University of Naples Federico II | 1992 |
| PhD Ecology | University of Naples Federico II | XX cicle |

**A.3. JCR articles, h Index, thesis supervised…**

Supervisor/co-supervisor of many degree, international fellowship, PhD students . 6 PhD Thesis defended (Laezza G., 2007, Deluca P.F: 2009, Carotenuto R.,2009, Rocco A., 2011, Schiavo S., 2016, Jiji Li 2016. Actually she is supervisioning 1 PhD students (International PhD) and two MSc students

**H Index 13; (G-Scholar) Total listed publication: 44, Total citation 626;**

**Part B. CV SUMMARY**

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| Italian MSc in Biological Sciences (Molecular Biology) *cum laude* at Federico II University Of Naples (Italy). MSc Thesis: [Satellite Dnas, Heterochromatin and Sex-Chromosomes In Chionodraco-hamatus (Channichthyidae, Perciformes)](http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=CitationReport&qid=5&SID=N2eLoWr6z32QXCztxsi&page=1&doc=5) .PhD in Ecology at The University Of Naples Federico II[.](http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=CitationReport&qid=5&SID=N2eLoWr6z32QXCztxsi&page=1&doc=7) PhD Thesis: [Assessment of the effects of soil PAH accumulation by a battery of ecotoxicological tests](http://scholar.google.it/citations?view_op=view_citation&hl=it&user=yu69wUIAAAAJ&citation_for_view=yu69wUIAAAAJ:9yKSN-GCB0IC).Researcher At ENEA (Italian National Agency For New Technologies, Energy And Sustainable Economic Development) Since 7.06.1993. **Senior Researcher since 2010**.Organization/sampling/experimental ecotoxicological activities in many Surveys of Italian Rivers (Sarno river , Irno river, Sabato river ) Coastal seawater (Campania, Apulia, Albania) , some garbage dumps in Campania region CODISO (Consorzio Disinquinamento Solofra) waste plant in Solofrana stream ***Research activity*** :Collaboration with Istituto Tumori di Napoli “ Fondazione G. Pascale”: Toxicity evaluation of some heavy metals upon sea urchinsCollaboration with University “Federico II of Napoli: Inhibin localization by In situ Hybridization in Podarcis siculaToxicity Evaluation of xenobiotic mixture on echinoids and molluscsCollaboration with Second University of Napoli Ecotoxicological and mutagenic activity of some leachates from MSW landfillsToxicity evaluation of new biocides in antifouling paints upon fertilization embryo development and offspring quality of sea urchin Paracentrotus lividusEcotoxicological evaluation of urban soils by PAH and heavy metalsEvaluation of Ecotoxicological effects of some biodegradable plastics (Italcom contract)Evaluation of Ecotoxicological effects of hazardous components leaching from photovoltaic panels (COBATContract)***Seminars and teaching activity***Visiting lecturer in Biological indicators, Ecotoxicology, Nanoecotoxicology at Federico II University (Naples , Italy) Parthenophe University (Naples, Italy) since 2010.***Publications:***Authors or coauthors of about 60 publications and 60 contributions to national and international congressesCollaboration in the realization of the Volume: Batterie di saggi ecotossicologici per sedimenti di acque marine e salmastre. Collana i Manuali di ecotossicologia ISPRA Manuali e linee guida 67/2011. ISBN: 978-88-448-0498-5Editor of one special issue upon marine fouling (Marine fouling: environmental concerns and counteracting strategies) EAI 1/2014 DOI 10.12910/EAI2014***Additional tasks**** Reviewer for several international Scientific Journals(JHM, EES, CHEM, STOTEN, ECOLIN, MERE, ET&C, ES&T, ESPR, NaoImpacT)
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* Supervisor /co-supervisor of master degree, international fellowship, PhD students (from 1998 to present)
* Responsible of Biology section in the realization of UE Project CE.F.A.M. FESR 1994/1996
* Scientific responsible of CARISMA project (bilateral collaboration Italy-Albania 2012-2014)
* Reference person for in FP7 Nanoreg Project (A common European approach to the regulatory testing of Manufactured Nanomaterials, 2013-2016) in the WP6:Keeping pace with innovation)
* Member EU COST Action ES1205 ENTER on the transfer of engineered NanoMaterials (ENMs) from wastewater treatment and stormwater to rivers.
* Member EU COST Action TD1204 MODENA on Modelling Nanomaterial Toxicity

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**Part C. RELEVANT Publications of last five years**

* Schiavo S, Duroudier N, Bilbao E, Mikolaczyk M, Schäfer J and **Manzo S** (2017), [Effects of PVP/PEI coated and uncoated silver NPs and PVP/PEI coating agent on three species of marine microalgae](http://scholar.google.it/citations?view_op=view_citation&hl=it&user=yu69wUIAAAAJ&sortby=pubdate&citation_for_view=yu69wUIAAAAJ:ZeXyd9-uunAC). Science of The Total Environment. 550: 619-627
* Miglietta ML, Rametta G, **Manzo S**, Salluzzo A, Rimauro J, Di Francia G (2015). [Methodological issues about techniques for the spiking of standard OECD soil with nanoparticles: evidence of different behaviours](http://scholar.google.it/citations?view_op=view_citation&hl=it&user=yu69wUIAAAAJ&sortby=pubdate&citation_for_view=yu69wUIAAAAJ:4DMP91E08xMC) Journal of Nanoparticle Research 17 (7), 1-12.
* Schiavo S, Oliviero M, and **Manzo S**. (2015) Genotoxic effects of oxide nanoparticles (ZnO, SiO2 and TiO2) on marine microalgae Dunaliella tertiolecta by comet assay. Science of total environment 550, 619-627.
* **Manzo S**., Buono S, Rametta G, Migletta ML, Di Francia G. (2015). The diverse toxic effect of SiO2 and TiO2 Nanoparticles toward the marine microalgae Dunaliella tertiolecta. Environmental Science and Pollution Research 22 (20), 15941-15951.
* **Manzo S**., Giuliana Ansanelli, Luisa Parrella, Giuseppe Di Landa, Paolo Massanisso, Simona Schiavo, Carmine Minopoli, Bruno Lanza, Raffaella Boggia, Pellumb Aleksi, Afrim Tabaku. A first evaluation of the threat posed by antifouling biocides in the Southern Adriatic Sea. Environmental Science: Processes & Impacts (2014) 16 (8), 1981-1993DOI: 10.1039/C3EM00724C.
* **Manzo S**., Miglietta ML, Rametta G, Buono S, Di Francia G. [Embryotoxicity and spermiotoxicity of nanosized ZnO for Mediterranean sea urchin Paracentrotus lividus](http://scholar.google.it/citations?view_op=view_citation&hl=it&user=yu69wUIAAAAJ&sortby=pubdate&citation_for_view=yu69wUIAAAAJ:Zph67rFs4hoC). Journal of hazardous materials 254, 1-9 (2013).
* **Manzo S.,** Rocco A., Carotenuto R., De Luca Picione F., Miglietta M. L., Rametta G., Di Francia G., Investigation of ZnO nanoparticle ecotoxicological effects toward different soil organisms. Environmental Science and Pollution Research. 18 (5) 756-763 (2011).

**C.2. Main Research projects**

* EU COST Action ES1205 ENTER on the transfer of engineered NanoMaterials (ENMs) from wastewater treatment and stormwater to rivers.
* EU COST Action TD1204 MODENA on Modelling Nanomaterial Toxicity
* PON Project M2Q: OR 3.2 Methodology for the risk management and control of nanotechnology employment in food industry.
* FP7 NMP.2012.1.3-3(2012-2016) Regulatory testing of nanomaterials- Nanoreg Project- Participant in the WP6 – “Keeping pace with innovation”- in the Establishing a first set of relationships between certain nanomaterial functionalities and triggers for testing specific (eco)toxicity endpoint
* CARISMA Project (Characterization and ecological risk analysis of antifouling biocides in the Southern Adriatic Sea), (2012-2015) founded by Italian Ministry of Foreign Affairs PGR00123
* PON TIde Projec 2003-2006
* PON Petit osa prot. n. 13032 30/XI/2001 Italian Ministry of University and scientific Research (MIUR) main investigator ENEA

**C.3. Patents**

Di Francia G., Chiavarini S., La Ferrara V., Manzo S. “Metodo per la realizzazione di dispositivi sensori per DNA” (Methods for realization of DNA sensor devices ). Patent N°NA2002A000039 depositato presso la Camera di Commercio Industria & Artigianato di Napoli

**C.4 Memberships**

UNIChim Italian Commission for Standardization of Ecotoxicological methods in aquatic environment. Italian Marine Nanoecotox group