

Curriculum Vitae

Education

Ph.D. Ecology and Management of Biological Resources, University of La Tuscia, Italy (2008)

M.Sc. Geographic Information System and Remote Sensing, University of Venice, Italy (2003)

B.Sc. Natural Sciences, University of Florence, Italy (1999)

Professional Experience

Programme Management and Administration

- Between 2015 and 2018, Executive Director of the **European Marine Biological Resource Centre (EMBRC)**. My role as EMBRC Executive Director was to drive the establishment of EMBRC in the form of a European Research Infrastructure Consortium (EMBRC-ERIC), by providing strategic leadership and helping the EMBRC Implementation Board setting the vision, plan and strategies for this Research Infrastructure, which were framed in the “**EMBRC-ERIC Business Plan, update 2017**” (Nardello et., 2017). Since January 2019, advising the new EMBRC-ERIC directorate.
- In 2015-2016, supporting the establishment of the **Biomarine Industry Cluster Associations (BICA)**, of which I was a founding member and the Chief Operating Officer.
- Between 2009 and 2014, National Coordinator of **Ireland’s Marine Biotechnology Research Programme**, with a role to communicate, promote and enhance the development opportunities connected with the marine biotechnology-driven research activity. In this role, I developed a personal approach to **industry-university engagement**, which gained me the role of **Industry Research Specialist** with the College of Science of the National University of Ireland, Galway.
- Between 2007 and 2009, Team Leader of the Irish National Marine Climate Change programme, leading a multidisciplinary team of scientists to produce the first “Irish ocean ecosystem and climate report” (2010).

Scientific Research Experience

From 1999 to 2009, worked and studied as a biological oceanographer, between Italy, the USA, and Ireland:

1999-2009

- Nine years of **bio-optical oceanographic research** contributing to novel approaches to the estimate of the ocean’s primary productivity.

- Two further years dedicated to **Marine Climate Change** research, leading a multidisciplinary team of scientists in the analysis of a large set of data time-series, to produce the “Irish Atlantic Marine Ecosystem and Climate Status Report, 2010”. 2009–2014
- Participation in **13 oceanographic campaigns** in various regions of the world’s oceans, including Antarctic Ross Sea and Southern Ocean.

Project Funding

- **EOSC-Life (2019-2023)**
Participant
€8M (total award);
€100,000 (personal funding).
- **ERIC-Forum Project (2019-2023)**
Task Leader
€3Million (total award);
€60,000 (personal funding).
- **RI Visibility (2019-2022)**
WP Leader
€3Million (total award);
€150,000 (personal funding).
- **“Assemble Plus - Association of European Marine Biological Laboratories Expanded”** (EU H2020-INFRAIA-1-2016-2017)
Project Coordinator (2017-2021)
€10Million (total award);
€1 Million (personal funding).
- **Atlantic Blue Tech - EU Atlantic Area Cooperation Programme**
Work Package Leader (2014 - 2015)
€1.2M (total award);
€167,000 (personal funding).
- **ShareBiotech (2010-2013)** EU Atlantic Area Cooperation Programme
€2.7m (total award);
€264,000 (personal funding).

Research Development and Innovation proposals funded with my support

- **EI Commercialisation grant** - Undisclosed title (B.Ward, NUI Galway, 2014 – Awarded)
- **EI Feasibility Study award** – “Mining Seaweed for Novel Polysaccharides” (L.Joshi, NUI Galway, 2013, Awarded)
- **EI Feasibility study award** - Undisclosed title (B.Ward, NUI Galway, 2013 - Awarded)

- **EU FP7-PEOPLE-2012-IIF: Epigenetics of Cnidarian Stem Cells (EpiCS)** (U.Frank, NUI Galway 2012 - Awarded)
- **SFI-TIDA award: “Scale Up Feasibility of a Polymeric Diatom Replica as a Novel Drug Delivery System”** (A. Pandit, NUI Galway, 2011 - Awarded)

Main Invited Communications

- **International Conference on Research Infrastructures (ICRI) 2018**, Vienna, October 2018. Invited Plenary Session Speaker.
- **Baltic Blue Biotechnology Alliance**, Greifswald, Germany, 22-24 August 2018. Invited Panelist.
- **Core Technologies for Life Sciences (CTLS)**, Symposium 2018, Ghent, BE, 03 Jul 2018. Invited Plenary Session Speaker: **“Global-Reach Potential of EU Research Infrastructures: the case of EMBRC-ERIC”**.
- **IMBRSea Symposium “Diving into Marine Minds”**, 25 Jun 2018, Ostende, BE: Introduction to EMBRC-ERIC Research Infrastructure. Plenary session, Lecture and practicals.
- **G7 « Future of Seas and Oceans Workshop »**, 14-15 June 2017, Naples, IT. Invited panelist to the session “Marine ecosystems in the genomic era: setting up next generation multidisciplinary and integrated marine observatories ».
- **9th Meeting of Group of Senior Officials (GSO) on Global Research Infrastructures (GRI)**, 15-16 May 2017, Naples, Italy. Invited showcase project: “Global reach potential of research Infrastructure EMBRC-ERIC”.
- **A New Era of Blue Enlightenment**, Belem, Lisbon, PT, 2017. Invited panellist.
- **Blue Growth and Innovation in the Mediterranean Area (Blue Med)**, 2017, Sliema, Malta. Invited panellist.
- **“Why our ocean matter”**. International School of Milan, IT. March 2017. Invited series of seminars.
- **“International dimension of the European Marine Research Infrastructure”**, ICRI 2016 – Cape Town, South Africa. Invited panellist.
- **“Blue biotechnology – Recommendations to overcome SME development barriers in the Atlantic marine biotechnology sector”**. Atlantic Stakeholder Platform, by EU DG MARE. 20 Jan 2015, Porto (PT). Invited panellist.
- **“Innovation by Education”**. Regional Innovation through Graduate Education workshop, 01 Dec 2014, National University of Ireland, Galway, Ireland. Organiser.
- **“Seaweed Production: How to match the global demand with a uniform quality requirement”**, Invited panellist, Biomarine Business Convention 2015, Cascais, Portugal.

- **“The Atlantic BlueTech project”**, SeaTech Week, 13 October 2014, Brest, France. Invited Speaker.
- **“Drivers & Barriers to the development of Blue Biotech SMEs”** SeaTech Week, 14 October 2014, Brest, France. Invited Speaker.
- **“Atlantic Blue Technology Joint Transnational Body”** 1st Meeting, SeaTech Week, 14 October 2014 Brest, France. Invited Expert.
- **“Atlantic BlueTech - A Cooperation Project for the Benefit of blue SMEs in the Atlantic Area”**. Italian Forum on Industrial Biotechnology and Bioeconomy, 25-26 Sep.2014, Genova, IT. Invited speaker.
- **“Marine Biotechnology, Blue Growth and the Bioeconomy: an Irish Paradigm”**. Italian Forum of Industrial Biotechnologies (IFIB2013), Naples, Italy, October 2013. Invited Speaker.
- **“Marine Biotechnology – Opportunities and Challenges for the Irish Bioeconomy”**. Interview for Affari Italiani, web journal, January 2013.
- **“International Biomarine Clusters”**: Invited panellist. BioMarine International Business Convention, Halifax, Nova Scotia, September 2013.
- **“Marine bioactives in the cosmetic personal care industry”**. Invited session moderator and session rapporteur. BioMarine International Business Convention, Halifax, Nova Scotia, September 2013.
- **“Research, Development and Innovation through Marine Biotechnology”**. Invited Speaker. Gen2Bio 2012, L'Orient (FR), March 2012.
- **“Marine Bio-resources: A bright future”**. Invited panellist, opening debate. BioMarine International Business Convention, London, October 2012.
- **“Marine Biotechnology, Ireland and the European Bio-Economy: a complex pattern of opportunities”**. Invited speaker. Second annual Beaufort Marine Socio-Economic Research Unit Workshop, Galway, November 2010.
- **“Climate variations and the Northeast Atlantic marine ecosystems”**. Ulster University (Coleraine, UK), 23rd September 2009.
- **“The role of ocean colour remote sensing in assessing the impact of climate change on marine ecosystems and services, and in supporting marine environmental policies’ goals”**. ESA CoastColour Project - User Consultation Workshop. National Maritime College, Cork, Ireland. 19-20 March 2009.
- **“The influence of climate on the Irish shelf seas ecosystem”**. SOLAS annual meeting. National University of Galway, Ireland. December 2008.
- **“Joint use of satellite and in situ observations to investigate the ecology of the northeast Atlantic system”**. 2nd Irish Earth Observation Symposium, UCC-National Maritime College of Ireland, CORK, 6-7th November 2008
- **“North Atlantic Ocean climate and shelf seas ecosystem”**. Faroes Fishery Laboratories. Faroe Islands. October 2008.

- **“In vivo fluorescence of phytoplankton for estimates of primary production at sea”**, Woods Hole Oceanographic Institute (WHOI), Department of Applied Ocean Physics and Engineering, 02543 Massachusetts (USA), 26th of February 2004.
- **“The role of phytoplankton in climate change processes”**. University of Florence (IT), 10th of November 2004. Invited seminar.

Publications and Reports

- **“The European Marine Biological Research Infrastructure Cluster: An Alliance of European Research Infrastructures to Promote the Blue Bioeconomy »**, Piña M. et al. (2018). In: Rampelotto P., Trincone A. (eds) Grand Challenges in Marine Biotechnology. Grand Challenges in Biology and Biotechnology. Springer, Cham.
- **“EMBRC-ERIC Business Plan”**. Nardello et al., April 2017.
- **“Missing the Blue”**. I.Nardello for the column “The Blue Yonder”, in the European magazine “Renewable Matter”. Issue X, May 2016.
- **“In Iceland, cod is king”**. I.Nardello for the column “The Blue Yonder”, in the European magazine “Renewable Matter”. Issue VI-VII, Oct 2015
- **“A Marketable Seaweed Production”**. I.Nardello for the column “The Blue Yonder”, in the European magazine “Renewable Matter”. Issue IV, Jun 2015
- **“Marine Biomass: An Unconventional Wealth”**. I.Nardello for the column “The Blue Yonder”, in the European magazine “Renewable Matter”. Issue III, April 2015
- **“Almost Blue: Data and indicators for the marine bio-economy”**. I.Nardello for the column “The Blue Yonder”, in the European magazine “Renewable Matter”. Issue II, Jan. 2015.
- **“Portugal’s Return to the Sea”**. I.Nardello for the column “The Blue Yonder”, in the European magazine “Renewable Matter”. Issue I, Nov. 2014.
- **“Market Study on the Value of Scientific Validation of Seaweed Extracts to Irish Cosmetic Companies”**. MacKenzie and Nardello, 2013, Confidential feasibility study report for NUI Galway’s Technology Transfer Office.
- **“Biotechnology education and training needs & offers in the Atlantic area”** (2013). P.Pinto, A. Goncalves, D.Power, I.Nardello. Published Report.
- **“Development of a transnational model of Technology Core Facilities (TCFs) to promote effective access”** (2013). EU ShareBiotech Project Report.
- **“Recommendations to support the growth of a bio-based economy in the Atlantic Area”** (2013). EU ShareBiotech, Project Report.
- **“Analysis of Life Sciences Technology Core Facilities business models in Europe”** (2012). EU ShareBiotech Project Report.
- **“The ShareBiotech project, 2010-2013: Outcomes and Outlook”** (2013). EU ShareBiotech Project Report.
- **“Instruments to foster technology transfer in Life Sciences”** (2012-2013).

- **“Guiding principles for management and business development of Technological Core Facilities in Life Sciences”** (2012). EU ShareBiotech Project Report.
- **“Biotechnology competencies and technology regional needs report”** (2011). EU ShareBiotech Project Report based on more than 300 interviews of research groups and companies in the EU Atlantic Area.
- **“Inspiration from the sea for Biomaterials”**. I. Nardello (2011). Science Spin, issue 49, pp29.
- **“Ocean Climate Status Report, 2009”**. First author and co-author of chapters (2010). Marine Institute Published Report.
- **“The effect of climate change on the distribution and abundance of marine species in the OSPAR Maritime Area”**. Varius Authors (2008). ICES Cooperative Research Report n.293, 45 pgg.
- **“Light environment and seasonal dynamics of microalgae in the annual sea ice at Terra Nova Bay, Ross Sea, Antarctica”**. Lazzara L., Nardello I., Ermanni C., Mangoni O., Saggiomo V. (2007). Antarctic Science 19 (1), 83–92.
- **“Lidar calibration of satellite sensed CDOM in the Southern Ocean”**. Fiorani L., Fantoni R., Lazzara L., Nardello I., Okladnikov I.G., Palucci A. (2006): EARSel. Vol. 5, No. 1, 89-99.
- Lazzara L., Carlini. L., De Mayo A., Nardello I., Marcelli M., Vellucci E.: “Mediterranean Marine Environment Program - Vertical Carbon Fluxes”. Technical Report (advancement). June 2003. University of Florence, Italy.
- Nardello I., L Fossi, L. Lazzara: “Mediterranean Marine Environment Program - Vertical Carbon Fluxes”. Technical report. November 2001. University of Florence, Italy.
- Nardello I.: “Norbal01_Data report”. July 2000. University of Florence, Italy.
- Nardello I.: “Experimental definition of an operative protocol to perform in vivo fluorescence measurements (Production/Irradiance curves) with a pulse amplitude-modulated fluorimeter (PAM_Walz)”. Technical report. June 1999. Stazione Zoologica A. Dorhn, Naples, Italy.

Committees/ Working groups Participation

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| • Chairman of the Biological and Medical Sciences (BMS) Research Infrastructures Strategy Forum. | 2018 |
| • Advisory Board member, IMBRSea Masters’ study programme. | 2018 |
| • Scientific Committee member, European Marine Biology Symposium 2018. | 2018 |
| • Advisory Board Member, European Marine Biological Research Infrastructure Cluster (EMBRIC) project. | 2016 – present |
| | 2015-present |

- Executive Board Member: CORBEL RI Custer Project 2015-present
- Executive Board Member: ENVRI Plus RI Cluster Project 2012 - 2013
- Delegate to the “**European Strategic Forum for Research Infrastructures (ESFRI) - Roadmap of European Research Infrastructures**”, promoted by the Irish Higher Education Authority, on behalf of the National University of Ireland, Galway. In my role, I promoted the interests of Irish Higher Education Institutes in participating in the EU Marine Biological Resource Centre (**EMBRC**), one of the ESFRI pan-European research infrastructures in the Biomedical Sciences Area. Higher Education Authority, Dublin, Ireland.
- Member of the Marine Institute’s senior management unit “**Sea Change**”, in charge of the mid-term review of “*Sea Change – A Marine Knowledge Research and Innovation Strategy for Ireland 2007-2013*”. My responsibility included the review of two main areas of the strategy, related to the implementation of the *Marine Biotechnology Research Programme* and the *Marine Functional Foods Research Programme*. Marine Institute, Galway, Ireland. 2009-2012
- Delegate **Ireland’s National Research Prioritisation Steering Group**, on behalf of the Marine Institute, for the preparation of recommendations to Government on areas of focus for the next phase of Ireland’s science, technology and innovation strategy. The National Research Prioritisation Steering Group report was issued in 2011. Forfás, Dublin, Ireland 2010-2011
- **Expert Member on the European Commission’s “Marine Observations and Data Experts Group (MODEG)** towards an integrated European Marine Observation Data Network (EMODNET)”. Group of independent experts nominated by the European Commission to obtain scientific, technical and operational advice to build a user-driven European Marine Observation and Data Network (EMODNET). European Commission, Brussels, BE. 2008-2010
- **Expert delegate to the Marine Climate Change Impacts Partnership (MCCIP, UK)**. Committee of scientists, government’s and NGO’s representatives and agents, to provide co-ordinated advice on climate change impacts around British Isles’ coasts and seas. Department for Environment, Food & Rural Affairs (DEFRA), Reading, UK. 2008-2009
- **Expert delegate to the Climate Change Research Coordination Group (CCRCG)** at the Irish Environmental Protection Agency (EPA). Coordination of climate change research, through involvement of representatives from the main 2008-2009

government departments and agencies with responsibility for climate change research. Expert Irish **Marine Institute** representative. Environmental Protection Agency (EPA), Dublin, Ireland.

- **Expert delegate Intergovernmental Panel on Climate Change**, Fifth Assessment Report (AR5). Scoping workgroup on Climate Change Impact, Adaptation and Vulnerability. Irish Environmental Protection Agency, (EPA), Dublin, Ireland. 2009
- **Expert delegate European Climate Advice Drafting Group** (ADGCLIM) at the International Council for Exploration of the seas (**ICES**). ICES Headquarters, Copenhagen, Denmark. 2008

Teaching Experience

- **Teaching fellow**. Co-ordination and delivery of lectures, practicals and exams, “**Atmospheric and Oceanic Systems**” module, Environmental Sciences School, Faculty of Life and Health Sciences, University of Ulster, Coleraine, Co. Derry, Northern Ireland. Sep. 2009 - Dec.2009
- **Co-supervisor** in the preparation of five experimental post-secondary long-degree theses in Marine Ecology, at the University of Florence (IT), Department of Animal Biology and Genetics, Laboratory of Ecology (Cecilia Gallo, Irene Zacchei, Chiara Ermanni, Fabiola Fani, Francesca Boggiano). 1999 - 2004
- Awarded the academic entitlement “**Cultore della Materia Ecologia**” to research and educate on the subject of Ecology at the graduate level. University of Florence, School of Natural Sciences, Italy. 2002