

Curriculum Vitae

Dr. Gian Marco Luna

Data di Nascita: 02/01/1976

Nazionalità: Italiana

Stato civile:

Figli:

Indirizzo:

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Curriculum Vitae English Version

(Short)

Born Ascoli Piceno, January 2th 1976

Employment Director of CNR IRBIM (1st December 2020- 30th November 2024)

Director of Research at CNR IRBIM (since December 2020)

Education 2001 Laurea in Scienze Biologiche Università di Ancona, 110/110

2002 Three months visiting stay at Dr. Yakimov/Dr. Giuliano microbiology lab CNR IAMC, Messina

2004 Three months at Marine Biological Laboratory, Woods Hole, MA (USA) (grant sponsored by Howard Hughes Medical Institutes and Herbert W. Rand Fellowship Fund)

2005 PhD Marine Biology & Ecology (Dept. Marine Sci., Polytechnic University of Marche, Italy)

2005 Fellowship at Conisma (projects EU Coralzoo *The development of a SME-friendly European breeding program for hard corals*, EU REEFRES *Developing ubiquitous restoration practices for Indo-Pacific reefs*, and national project FIRB-MIUR *Simbionti microbici di microrganismi marini*)

Career 2006-2010 Post-doc at Dept. Marine Science, Polytechnic University of Marche, Italy

2010-2011 Junior Researcher funded by project FIRB-Futuro in Ricerca, Dept. Marine Science, Polytechnic University of Marche, Italy

Nov 2011-2016 Research Scientist at CNR ISMAR Venezia, Italy

2016-April 2019 Research Scientist at CNR ISMAR Ancona (now CNR IRBIM), Italy

April 2019-December 2019 Senior Researcher at CNR IRBIM

Since January 2020 Director of Research at CNR IRBIM

Interests marine microbial ecology; marine microbiology; microbial food webs and carbon flux in coastal and deep sea; marine metagenomics; marine microbial biodiversity, patterns and drivers; ecology and evolution of microbial pathogens in the coastal sea; water quality and bathing waters; antibiotic resistance in the aquatic environment; polar research; microbial biotechnology.

EU Projects 2021-onward ARENA “Antibiotic RESistaNce and Pathogenic Signature in Marine and Freshwater Aquaculture Systems” (JPI Aquatic Pollutants). Role: *Project Coordinator*

2021-2023 B-BLUE “Building the blue biotechnology community in the Mediterranean”. Role: *RU Participant*

2018-onward CIRCLES “Controlling mIcRobiomes CircuLations for bETter food Systems” (Horizon2020). Role: *WP Leader*

2016-2018 Efficiency of disinfection processes in the removal of antibiotic resistance in experimental systems and full-scale WWTPs (Italian-China cooperation) Role: *Research Unit (RU) Responsible*

2013-2016 OCEAN CERTAIN “Ocean food web patrol – climate effects: reducing targeted uncertainties with an interactive network” (FP7-ENV) Role: *RU Participant*

2013-2016 BALMAS “Ballast water management system for Adriatic Sea protection” (IPA Projects) Role: *RU Participant*

2010-2013 “DS3F–Deep Sea & Sub-Sea-floor Frontiers” (FPVII) Role: *RU Participant*

2009-2011 HERMIONE “Hot spot Ecosystem Research & Man Impact on European Seas” (FPVII) Role: *RU Participant*

Since 2001 to 2009 Role: *RU Participant* to projects “HERMES-Hot spot Ecosystem Research on the Margins of European Seas” (FPVI), “The development of a SME-friendly European breeding program for hard corals” (FPVI), “REEFRES-Developing restoration practices for Indo-Pacific coral reefs” (FPVI), “MEDVEG-Effects of nutrients from Mediterranean fish farms on benthic vegetation in coastal ecosystems” (FPV)”, “ADIOS-Atmospheric Deposition and Impact of pollutants, key elements and nutrients on the Open Mediterranean Sea” (FPV), “INTERPOL-Impact of natural and trawling events on resuspension, dispersion and fate of pollutants” (FPV), “BIODAQUA-Developing educational programmes in the sustainable use of aquatic biodiversity” (FPV)

Ita. projects 2023-onward NBFC “National Biodiversity Future Center” (PNRR - Next Generation EU) Role: *Spoke 2 Project Coordinator*

2021-2024 META-ICE-ROSS PNRA (Italian Antarctic Program) Role: *Project Coordinator*

2018-2020 “Catchupfish - Metodologie Innovative per lo Sfruttamento Sostenibile delle Risorse Biologiche nella Laguna di Lesina” Funded by Regione Puglia (Po Feamp) Role: *RU Participant*

2016-2018 RITMARE “Biodiversità e funzioni delle comunità microbiche” (Joint Italian Flagship project on marine research funded by Ministry of Education-MIUR) Role: *RU Responsible*

2014-2016 DEEPROSSS “Deep Ross Sea ecosystem functioning: insights on the role of ventilation on microbial metabolism and diversity” PNRA (Italian Antarctic Program) Role: *RU Responsible*

2012-2016 RITMARE “Biodiversità associata ad ambienti estremi” (Joint Italian Flagship project on marine research funded by Ministry of Education-MIUR) Role: *RU Responsible*

2016-2018 Marine Framework Directive (Conv. MATTM-PNM & CNR-DTA) Role: *RU Participant*

2012-2016 RITMARE “Impatti antropici e naturali sulle comunità biologiche” (Joint Italian Flagship project on marine research funded by Ministry of Education-MIUR) Role: *RU Participant*

2010-2011 EXPLODIVE “Un approccio metagenomico per esplorare la diversità microbica ed il flusso genico negli ecosistemi marini profondi” (FIRB-Futuro in Ricerca) Role: *RU Participant*

2010-2012 Ruolo dell'ambiente marino nell'evoluzione, persistenza e diffusione di geni di virulenza e di resistenza agli antibiotici in batteri che possono rappresentare un rischio per la salute dell'uomo (MIUR PRIN2008) Role: *RU Participant*

2010-2012 Sviluppo di strategie eco-compatibili di biorisanamento di sedimenti portuali contaminati (Agreement UNIVPM-ISPRA) Role: *RU Participant*

2010-2011 Studio sperimentale ambientale atto a verificare eventuali effetti indotti sugli ecosistemi marini da interventi di ripascimento previsti lungo la costa marchigiana (Agreement UNIVPM-ISPRA) Role: *RU Participant*

Since 1999 to 2009 Role: *RU Participant* to projects “VECTOR–VulnErabilità delle Coste e degli ecosistemi marini italiani ai cambiamenti climaTici e loro ruolO nei cicli del caRbonio mediterraneo (funded by MIUR), “Messa a punto di tecniche biomolecolari (T-RFLP) per la caratterizzazione delle comunità microbiche responsabili dei processi biodegradativi e la determinazione rapida degli isolati di *Pseudomonas* sp. (Funded by ISPESL)”, Simbionti microbici di invertebrati marini: interazioni tra batteri e meiofauna (thiobios) (funded by FIRB MIUR), NITIDA–Nuovi indicatori di stato trofico e integrità ecologica (2003051023_001, MIUR) (funded by MIUR–COFIN 2003), MAT–Processi di formazione delle mucillagini nell'adriatico e nel tirreno) (Funded by ICRAM).

Edit. Board Member Journal of Limnology, Frontiers in Environmental Science, Frontiers in Public Health, Frontiers in Ecology and Evolution, Life

Guest Editor Progress in Oceanography, Special Issue *Ecology and functioning of Mediterranean submarine canyons* (Guest Editors Danovaro R., Luna G.M., Canals M.) (2020)

Main Committees & Appointments

Since 2024: Representative for the CNR on the Board of Directors of the IMC-International Marine Center Foundation of Oristano

Since 2021: Member of the National Coordination Group for Bioeconomy at the “CNBBSV - National Committee for Biosafety, Biotechnology, and Life Sciences” under the Presidency of the Council of Ministers, representing BIG - Blue Italian Growth Cluster

Since 2020: Expert appointed for the CNR to the Natural Capital Committee of the “Ministry of the Environment and Energy Security” for the drafting of the IV (2021), V Report (2022) and VI Report (in preparation) on the State of Natural Capital in Italy

Since 2022: CNR Expert Representative in the Technical-Operational Coordination Committee related to the MoU for the cooperation between the CNR and the Guardia di Finanza

2021-2027: Representative for the CNR of Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment" Topic 5. Food systems for the Working Groups 'towards' Horizon Europe within the European Research Agency (APRE)

Since 2020: Delegate Representative for the CNR on the Scientific Committee of the “Fano Marine Center – Joint Laboratory for the Study of Biodiversity, Resources, and Marine Biotechnology”

2019-2022 Member of the CIO - Oceanographic Infrastructure Commission at CNR

2019-2021 Member of the “Technical Scientific Steering Committee” of the Marche Agrifood Cluster and subsequently of the “OCG Coordination and Management Body”

Since 2017: Academic Board Member of the International PhD Program “Innovative technologies and sustainable use of Mediterranean Sea fishery and biological resources” (FishMed-PhD) (jointly held by University of Bologna and CNR)

2011-2024: Organizing Committee of several editions of the “International Course in Microbial Ecology – ICME” (for PhD students and post docs from worldwide)

2018-2019: Member of the Committee for Polar Research (at the Department of Earth System Science and Environmental Technologies of CNR)

2014-2020: CNR Delegate at the General Assembly of EMBRC-IT (Italian Node) for the ERIC Research Infrastructure “European Marine Biological Resource Centre” (EMBRC)

2017-2018: CNR National Representative at the Working Group for Antarctic Affairs at the Italian Ministry of Foreign Affairs and International Cooperation

2011-present: Evaluator of international research proposals (FWF, UEFISCDI, USC Sea Grant Program, ERANET, Croatian Science Foundation, MOST, NWO) and Italian National Research Assessment (VQR) as expert in Marine Microbiology, Marine Biology and Ecology

Cruises >20 scientific cruises between 2001-present (Mediterranean Sea, Atlantic Ocean, Arctic Ocean). Chief Scientist cruise BIOLIG (Ligurian Sea, 2013). Expedition to Antarctica (Mario Zucchelli Station, November-December 2022) and to Arctic (Dirigibile Italia station, Ny Alesund, May 2023)

Teaching >40 lectures at Polytechnic University of Marche, University of Milan and University of Messina
Advisor on 16 MSc theses

Co-advisor of several PhD thesis students in liaison with the University of Bologna (FishMed International PhD UniBO-CNR)

External evaluator on PhD Committees at University of Trieste (2016), University of Padova (2016), University of Messina (2017), NTU Singapore University (Singapore, 2021). Examining Committee Member Max Planck Institute for Marine Microbiology (Bremen, Germany, 2020-2022). Member of the Dissertation Defence Board at the Marine Research Institute, Klaipeda University (Lituania, 2021). Member of the Scientific Board of the International PhD Program “FishMed - Innovative Technologies and Sustainable Use of Mediterranean Sea Fishery and Biological Resources”. Committee Member of the Final Exam at PhD Program “FishMed” (2023 and 2024)

Publications 130 papers between refereed ISI journals, refereed books, and other journals
Above 4,800 citations on Google Scholar (H index 38, I-10 index 66)
More than 150 presentations in national/international conferences, meetings and workshops

Invited Invited Speaker at the Conference of the Italian Society for Microbiology and Microbial Biotechnology (Palermo, 2017)

Invited Speaker al XXIII Conference of Italian Ass. of Oceanology and Limnology (Cagliari, 2017)

Invited Speaker at the Workshop “BONUS BaltCoast – Bathing water quality issues with external experts”, Klaipeda, Lituania, 2016)

Invited Speaker at the Svedish Parliament, EMD Day 2022, AORA, APANAC 2023

Talks at CNR–Institute for Ecosystem Studies (Verbania), Italian Institute of Health (Roma), CSIRO (Brisbane, Australia).