

Carmine Buonocore



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Current Position: Ph. D. student

Director of Studies: Andrea Riccio

Internal Supervisor(s): Andrea Riccio

External Supervisor: Donatella de Pascale

Program: Università degli Studi della Campania “Luigi Vanvitelli”, 35° cycle; Biomolecular Sciences

Affiliation:

Section EcoSustainable Marine Biotechnology (BlueBio), Stazione Zoologica Anton Dohrn, Napoli (Italy)

Education/Training/Experience

Institute and Location	Degree / Function	Year	Field of Study
University of Naples “Federico II”	Master’s Degree	2015-2018	Biological Sciences
Institute of Protein Biochemistry-National Research Council (IBP-CNR), Naples, Italy	Young Research fellow	2019	Biotechnology
University of Campania “Luigi Vanvitelli”, Caserta, Italy	Ph.D.	2019-Present	Biomolecular Sciences

Appointments and awards

2021: Best Poster Award (EcoSustainable Marine Biotechnology Department Scientific Retreat)

2020: ASSEMBLE Plus 6th call, Project: Bioremediation from Red Sea (BIORES), N. 10864

2019: ASSEMBLE Plus 3rd call, Project: Medicine from the Sea (MEDSEA), N. 416

Other matters relevant to scientific career

Involved in EU funded project:

SECRETED H2020 FNR-11.2020, GA number 101000794

MSCA-RISE-NO PROBLEMS, GA number 777760

ERA_NET MarineBiotech BlueShell, GA number 604814

Publications

Author of 8 publications on ISI-journals

List of publications of the last 10 years:

Journal Papers

Giugliano R, Buonocore C, Zannella C, Chianese A, Palma Esposito F, Tedesco P, De Filippis A, Galdiero M, Franci G, de Pascale D. Antiviral Activity of the Rhamnolipids Mixture from the Antarctic Bacterium *Pseudomonas gessardii* M15 against Herpes Simplex Viruses and Coronaviruses. *Pharmaceutics*. 2021 Dec 8;13(12):2121. doi: 10.3390/pharmaceutics13122121. PMID: 34959400; PMCID: PMC8704987.

Palma Esposito F, Giugliano R, Della Sala G, Vitale GA, Buonocore C, Ausuri J, Galasso C, Coppola D, Franci G, Galdiero M, de Pascale D. Combining OSMAC Approach and Untargeted Metabolomics for the Identification of New Glycolipids with Potent Antiviral Activity Produced by a Marine *Rhodococcus*. *Int J Mol Sci*. 2021 Aug 22;22(16):9055. doi: 10.3390/ijms22169055. PMID: 34445761; PMCID: PMC8396431.

Zannella C, Giugliano R, Chianese A, Buonocore C, Vitale GA, Sanna G, Sarno F, Manzin A, Nebbioso A, Termolino P, Altucci L, Galdiero M, de Pascale D, Franci G. Antiviral Activity of *Vitis vinifera* Leaf Extract against SARS-CoV-2 and HSV-1. *Viruses*. 2021 Jun 29;13(7):1263. doi: 10.3390/v13071263. PMID: 34209556; PMCID: PMC8310055.

Ausuri J, Vitale GA, Coppola D, Palma Esposito F, Buonocore C, de Pascale D. Assessment of the Degradation Potential and Genomic Insights towards Phenanthrene by *Dietzia psychralcaliphila* J11D. *Microorganisms*. 2021 Jun 19;9(6):1327. doi: 10.3390/microorganisms9061327. PMID: 34205451; PMCID: PMC8235520.

Vitale GA, Coppola D, Palma Esposito F, Buonocore C, Ausuri J, Tortorella E, de Pascale D. Antioxidant Molecules from Marine Fungi: Methodologies and Perspectives. *Antioxidants (Basel)*. 2020 Nov 26;9(12):1183. doi: 10.3390/antiox9121183. PMID: 33256101; PMCID: PMC7760651.

Vitale GA, Sciarretta M, Cassiano C, Buonocore C, Festa C, Mazzella V, Núñez Pons L, D'Auria MV, de Pascale D. Molecular Network and Culture Media Variation Reveal a Complex Metabolic Profile in *Pantoea* cf. *eucrina* D2 Associated with an Acidified Marine Sponge. *Int J Mol Sci*. 2020 Aug 31;21(17):6307. doi: 10.3390/ijms21176307. PMID: 32878176; PMCID: PMC7504411.

Sorrentino I, Gargano M, Ricciardelli A, Parrilli E, Buonocore C, de Pascale D, Giardina P, Piscitelli A. Development of anti-bacterial surfaces using a hydrophobin chimeric protein. *Int J Biol Macromol*. 2020 Dec 1;164:2293-2300. doi: 10.1016/j.ijbiomac.2020.07.301. Epub 2020 Aug 5. PMID: 32768482.

Buonocore C, Tedesco P, Vitale GA, Esposito FP, Giugliano R, Monti MC, D'Auria MV, de Pascale D. Characterization of a New Mixture of Mono-Rhamnolipids Produced by *Pseudomonas gessardii* Isolated from Edmonson Point (Antarctica). *Mar Drugs*. 2020 May 20;18(5):269. doi: 10.3390/md18050269. PMID: 32443698; PMCID: PMC7281774.