

Donatella de Pascale



Born in Naples on 07/08/1967

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Current Position: Dirigente di ricerca I° livello, Research Director

Current Affiliation:

Head of Ecosustainable Marine Biotechnology Department

Education/Training/Experience

Institute and Location	Degree / Function	Year	Field of Study
University of Naples “Federico II”, Biological Science Faculty, Naples, Italy	Biology (Magistral Degree)	1989-1992	Molecular Biology of Extremophilic bacteria
University of Naples “Federico II”, Biological Science Faculty, Naples, Italy	Post-graduate Specialization School in Biotechnology	1994-1997	Biotechnology application of Extremophilic enzymes
University of Campania “Luigi Vanvitelli”, Caserta, Italy	Ph.D.	1998-2000	Biotechnology of Extremophilic microorganisms
Institute of Protein Biochemistry, CNR, Naples Italy	Postdoc	2001-2006	Haemoglobins of Antarctic and Arctic fishes
Institute of Protein Biochemistry, CNR, Naples Italy	Postdoc	2006-2008	Psychrophilic enzymes from Polar microorganisms
Institute of Protein Biochemistry, CNR, Naples Italy	Ricercatore III Level	2008-2019	Secondary metabolites from microorganisms: antimicrobials

Stazione Zoologica Anton Dohrn, Napoli, Italy	Tecnologo II Level	2019-2024	Secondary metabolites from Marine microorganisms
Stazione Zoologica Anton Dohrn, Napoli, Italy	Dirigente di Ricerca	2024-present	Biotech application of Marine Organisms

Appointments and awards

2023. EMBRC-IT JRU Appointment as Coordinator of the Italian Node of EMBRC

2023. Sustainable Blue Economy Partnership (SBEP) representative for SZN, participant to the General Assembly and Tavolo Mare of the MUR.

2021. RPCT of the Stazione Zoologica Anton Dohrn. Dr Donatella de Pascale has been nominated RPCT for the Stazione Zoologica Anton Dohrn Delibera of CdA of SZN n 9 of 16/02/2021

2021. Director of the Marine Biotechnology Department at the Stazione Zoologica Anton Dohrn. Dr Donatella de Pascale has been appointed as Director of Department. Delibera of CdA of SZN n114 of 14/06/2021 and successively prot. 3693 of 16/07/2021.

2021. Cluster Blu Italian Growth (BIG Cluster). Dr Donatella de Pascale has been included and nominated as the Stazione Zoologica representative in the Blue Italian Growth Cluster and Member of Scientific Committee.

2021. EMBRC-IT JRU: Dr Donatella de Pascale has been appointed as Liaison Officer of the JRU EMBRC-IT, Delibera del C.d.A. of SZN n. 112 del 14/06/2021.

2021. Euromarine Consortium. Dr Donatella de Pascale has been appointed as Treasure of the EuroMarine Consortium.

2019. Euromarine consortium. Dr Donatella de Pascale has been nominated as representative in Euromarine for Stazione Zoologica Anton Dohrn in the Steering Committee of the EuroMarine Consortium.

2017. Euromarine consortium. Dr Donatella de Pascale has been elected in the Steering Committee of the EuroMarine Consortium.

2017. INABIO- Instituto Nacional de Biodiversidad Quito, Ecuador. Recognition as Permanent Research Associate.

2016. Dr. Donatella de Pascale is **Associated Editor of Frontiers in Marine Science and Marine Drugs.**

2016. Dr. Donatella de Pascale is reviewers for the following peer reviewed journal: Plos One, BMC microbiology, Journal of Molecular Catalysis: B Enzymatic, Marine Drugs BMC Biotechnology, Extremophiles, International Journal of Molecular Sciences, Scientific Report, Journal of Biotechnology, FEMS Microbiology Ecology, Vaccines, Applied Microbiology and Biotechnology, Biocatalysis and Biotransformation

2015. Dr Donatella de Pascale is member of **SIMGBM.**

Other - Expertise as Evaluator

2022. Expert in the HORIZON – CL6-20222- FARM2FORK-01-06 evaluation Panel

2021. Expert in the FCT 2021 evaluation Panel for Individual Grant Applications

2021. Expert in the EUREKA EuroStars Program, SME Instrument; March 2021

2020. Expert in the HORIZON – CL6-20222- FARM2FORK-01-06 evaluation Panel

2019. Expert in the H2020 MSCA- Individual fellowship Env Panel, Oct 2020 Bruxelles

2019. Expert in the BBI JU Call for Proposals 2020, Panel F3, Oct 2020 Bruxelles

2019. Evaluator for The Austrian Academy of Sciences, PhD program evaluation.

2019. Expert for the Project Peer Review of the Science Fund of the Republic of Serbia

2019. Expert MIUR REPRISE for the ERA-NET call Cofund WW2017 – Call 2018 for the project BLOOWATER, D.M. 593/2016.

2019. Expert in the H2020 MSCA- Individual fellowship Env Panel, Oct 2019 Bruxelles.

2018. Independent Expert in the H2020 MSCA- Individual fellowship Env Panel, Oct 2018 Bruxelles.

2018. Independent Expert in the Evaluation of BG-08 TOPIC BG-08: All Atlantic Ocean Research Alliance Flagship, Subtopic [C]: New value chains for aquaculture production, April 2018, Bruxelles.

2018. Independent Expert in the EASME/EMFF/2017/1.2.1.12/Strand.1 - Demonstration projects in the "Sustainable Blue Economy" call for proposals, May 2018, Bruxelles.

2017. Independent Expert in the EUROSTARS Funding Excellence in Innovation, 8th cut- off, Oct 2017.

2017. Independent Expert in the BBI JU Call for Proposals 2017, Panel S1 and S2, Oct 2017.

2017. Independent Expert in the H2020 MSCA- Individual fellowship Env Panel, Oct 2017 Bruxelles.

2016-2017. Independent Expert for the “Grandi Progetti R&S – PON 2014/2020” – Agenda Digitale o Industria Sostenibile. MISE, Italy.

2016-2017. Independent Expert for the “Bando MISE – FONDO PER LA CRESCITA SOSTENIBILE”. MISE, Italy.

2016. Independent Expert in the H2020 MSCA- Individual fellowship Env Panel, Nov 2016, Bruxelles.

2016. Independent Expert for the executive government agency of National Science Centre, Poland, calls for proposal evaluation.

2015. Independent Expert in the H2020 MSCA-I Individual fellowship Env Panel, 8-13 Nov 2015, Bruxelles.

2015. Independent Expert for the The Chilean Antarctic Institute, INACH, call for proposals for the National Fund for Scientific and Technological Research in Antarctica.

2015. Independent Expert for the executive government agency of National Science Centre, Poland, calls for proposal evaluation.

2014. Expert for Bando MISE, Italian Minister of Economy.

2014. Expert in the H2020 Marie S Curie Individual fellowship Env Panel, 27-31 October 2014, Bruxelles.

2014. Expert for the International Cooperation Programme (PCI) of the National Commission for Scientific and Technological Research of the Government of Chile (CONICYT).

2014. Expert for the UK Biotechnology and Biological Sciences Research Council (BBSRC) call for proposal.

2013. Expert for the South African Medical Research Council (MRC) in the call of South African Medical Research Council for 2013 African Traditional Medicine and Drug Discovery.

2013. Expert in the FP7 EU Marie Curie Actions IF Evaluation Env Panel, 6-11 October 2013, Bruxelles.

2013. Member of the Advisory Board in the CNR Technology Transfer Project: BIOTTASA- Department of Biomedicine, CNR, Italy.

2012. Expert for Miur in the “FIRB giovani 2011” call.

Visiting Scientist and Participation to Field Expedition

2024. Marhe Center (Maldives) EMBRC. 2nd Sampling expedition on coral reef, 1-9 Feb. 2024.

2023. Marhe Center (Maldives) EMBRC. 1st Sampling expedition on coral reef, 23-30 Sept. 2023.

2017. Cape Town (South Africa). Invited Science Visit at the University of Western Cape and from the South Africa Academia, Prof. Marla Trindade. September 2017.

2011. Visiting scientist in the laboratory of Prof. Yanfen Xue, at the Institute of Microbiology, Chinese Academy of Science, Beijing, China. June 2011

2010. Visiting scientist in the laboratory of Prof. Bjarne Landfald at the Norwegian College of Fishery Science, University of Tromsø, Tromsø, Norway. May 2010

2004. Participant at XIX PNRA 2004 Antarctic Expedition, Italian scientific expeditions of PNRA at Terra Nova Bay, Ross Sea, Antarctica. Participant at the “Victoria Land Transect Cruise” on board the R/V Italica. January-March 2004

2003. Participant in the TUNU-II International Programme Expedition in Arctic, on board of R/V Jan Majen in collaboration with the Norwegian College of Fishery Science, University of Tromsø, Tromsø, Norway. September-October 2003

2002. Participant in the TUNU-I International Programme expedition in Arctic, on board of R/V Jan Majen in collaboration with the Norwegian College of Fishery Science, University of Tromsø, Tromsø, Norway. September-October 2002

1997. Visiting scientist in the laboratory of Prof. R. Ladenstein at the Karolinska Institutet of Stockholm, Sweden. November 2007

International and National Funded Project

2024. Co-Coordinator of the **SBEP** project **WASTE2TASTE**, funded by Sustainable Blue Economy Partnership.

2023. Partner in the **HORIZON-INFRA-2023-SERV-01: AQUASERV** – Research Infrastructure Services for Sustainable Aquaculture, Fisheries and the Blue Economy.

2023. Partner in the **HORIZON-INFRA-2023-SERV-01: IRISCC**- Integrated Research Infrastructure Services for Climate Change risks.

2023. Partner in the **HORIZON-INFRA-2023-DEV-01: EUREMAP** - European Research Infrastructure for Marine Bioprospecting.

2022. Partner in the **HORIZON-CL6-2022-CIRCBIO-01 BLUEREMEDIOMICS** - Marine microbiome for a healthy ocean and a sustainable blue bioeconomy.

2022. Partner in the **HORIZON-MSCA-2021-DN-01: HOTBIO** A holistic approach to training a new generation of scientists in marine biodiscovery.

2021. Partner in the **HORIZON-INFRA-2021-EMERGENCY-02: ISIDORE** – Integrated Services for Infectious Disease Outbreak Research.

2021. Coordinator of the **LIFE20 ENV/IT/000572 SEDREMED: Bioremediation of Contaminated Sediments in Coastal Areas of ex-Industrial Sites.**

2021. Partner in **H2020-FNR 11-2020 call Food and Natural Resources: Secreted** – Sustainable exploitation of bio-based compounds revealed and engineered from Natural sources, (2021-2025)

2021. Coordinator of the **CRIMAC (SZN) Project: UNALTERABLES** - UNderwAter cuLTural hERitage conservation by means Anti- BiofouLing Econfriendly products.

2021. Blue Bio COFUND call: Partner in the Funded project **BlueCC** Commercial exploitation of marine collagen and chitin from marine sources.

2021. Partner in the **MIUR PNRA** project: **DISCOVERY** Monitoring *DISsostichus mawsoni* in sea-ice COVERed areas of the Ross Sea Region MPA bY low-impact technologies.

2021. Assemble Plus: **Medicines from the SEA – MedSea.** User: Carmine Buonocore, H2020-Infrastructure GA 730984

2019. Partner and Team Leader in the **CNR PRONAT II project: Isolation and characterization of small molecules as novel bioactive compounds from the sea.**

2018. Assemble Plus: **SEAOX-Antioxidants from the sea.** User: Dr Giovanni Andrea Vitale. H2020-Infrastructure GA 730984

2018. Partner in the project: **Genomics for a Blue Economy** (Coordinated by Dr. Giovanna Romano, SZN) – Executive program for Scientific and Technological cooperation between Italy and South Africa for the years 2018-2020.

2017. EMBRIC Transnational Access Program: Learning from Metagenome: From Culture-independent methods to lab cultivation. User: Dr. Fortunato Palma Esposito

2017. Partner and team leader in **H2020- MSCA-RISE- 2018-2021 entitled NO PROBLEMS - Nourishing PRObiotics to Bees to Mitigate Stressors.** www.noproblems.eu

2017. Partner and team Leader in the **ERA-NET: Marine Biotech II call: “BlueShell: Exploring by- products as sources of Blue bioactivities.”** Funded by MIPAAF and NRC (National Research Council of Norway).

2017. Partner and Team Leader in the **CNR PRONAT project:** Isolation and characterization of small molecules as novel bioactive compounds from the sea.

2016. Coordinator of **H2020-ITN-ETN, 2016-2020 entitled: MarPipe** – Improving the flow in the pipeline of the next generation of marine biodiscovery scientists. GA n°72142, www.marpipes.eu

2015. Coordinator of **H2020-MSCA-RISE, 2015-2019 entitled: Ocean Medicines.** GA n° 690944, www.oceanmedicines.eu

2014. Coordinator of the **PNRA 2014-2016** (National Programme of Antarctic Research) project: **Genome scanning and characterization of novel antifreeze proteins for industrial application.**

2014. Partner and Team leader within **PNRA 2014-2016 project: Sea-ice** associated methylated osmolytes: biogenesis and contribution to oceanic methane production (SIAMO).

2014. Partner and Team leader within **PNRA 2014-2016 project: New drugs for Cystic Fibrosis opportunistic pathogens from Antarctic microorganisms.**

2014. Partner and Team leader within **PNRA 2014-2016 project:** Exploiting Antarctica biotechnological potential: metabolic modelling for optimization of bioactive molecules biosynthesis from Antarctic bacteria.

2012. Partner and Team Leader in the **FP7 EU Project entitled PharmaSea in the KBBE.2012.3.2-01:** Innovative marine biodiscovery pipelines for novel industrial products. GA n° 312184.

2011. Project leader of the **Cooperation agreement** between National Research Council (CNR) and Chinese Academy of Science (CAS) 2011-2013, entitled: Discovery of new extremozymes for biotechnological applications”.

2009. Partner and Team leader within **PNRA 2009-2011 <PROP09_47>** research project: “Omics approaches to unravel biodiversity and evolution of polar microorganisms in view of climate changes and future biotechnological applications.” Total funds € 80.000,00

2005. Partner and Team leader of the research group within **PNRA 2005-2007 <MICELI7>** research project: “Genomics and Proteomics of the Antarctic ciliate *Euplotes focardii*.”

2004. Partner and Team leader within **PNRA 2004-2006 <BRUNIXO>** research project: “Antarctic bacteria and cyanobacteria: biodiversity and production of compounds to be potentially exploited in biotechnology.”

2002. Partner and Team leader within **PNRA 2002-2003 <BRUNIXO>** research project entitled: “Bacteria from Antarctica environment diversity and possible applications.”

Meeting Organization

2024. FEBS – European Federation of Biochemistry, Scientific Committee, Invited keynote Speaker, Chair of Session on Marine Biochemistry, Milan 30 June- 4 July 2024

2023. BIOPROSP_23 Join the Bioprospect scientific committee, the Biosporsp meeting in Tromsø, Norway, March 2023.

2019. Genomics for a blue economic meeting. Bilateral meeting South Africa-Italy, 11-12 December 2019, SZN, Naples, Italy.

2016. EuroMarine foresight meeting: Exploitation and Legal Aspects in the Marine Genetic

and Chemical Resources. April 4-5, 2016. The meeting was funded by EuroMarine Network after the winning of “EuroMarine call for proposal, 2015”.

Students’ Supervision

Master students supervisor of 25 students from Biological Science, Biotechnology and Chemistry Faculty.

PhD supervisor of eight Ph.D. students (internal supervisor, dir. of studies, external) and four Postdoctoral researchers and fellows (past and present).

Publications

Author of 120 publications on ISI-journals, h-index: 37, >3800 citations (Google Scholar)

List of publications of the last 10 years (2014-present):

1. H Vieira, G Moura Lestre, R Solstad, A Cabral, A Botelho, C Helbig, D Coppola, D de Pascale, J Robbens, K Raes, K Lian, K Tsirtsidou, M C Leal, N Scheers, R Calado, S Corticeiro, S Rasche, T Altintzoglou, Y Zou, A I Lillebø, Current and Expected Trends for the Marine Chitin/Chitosan and Collagen Value Chains. *Marine Drugs* **2023**, 21, 12, 605.
2. Zou, Y.; Heyndrickx, M.; Debode, J.; Raes, K.; de Pascale, D.; Behan, P.; Giltrap, M.; O’Connor, C.; Solstad, R. G.; Lian, K., Valorisation of crustacean and bivalve processing side streams for industrial fast time-to-market products: A review from the European Union regulation perspective. *Frontiers in Marine Science* **2023**, 10, 1068151.
3. Vitale, G. A.; Scarpato, S.; Mangoni, A.; D’Auria, M. V.; Della Sala, G.; de Pascale, D., Enhanced Molecular Networking Shows Microbacterium sp. V1 as a Factory of Antioxidant Proline-Rich Peptides. *Marine Drugs* **2023**, 21, (4), 256.
4. Vitale, G. A.; January, G. G.; Oppong-Danquah, E.; Della Sala, G.; Palma Esposito, F.; Tasmemir, D.; de Pascale, D., A metabologenomics approach to unlock the metabolome of the novel Antarctic deep-sea isolate *Lacinutrix shetlandiensis* sp. nov. WUR7. *PNAS nexus* **2023**, 2, (7), pgad221.
5. Luci, M.; De Leo, F.; De Pascale, D.; Galasso, C.; La Russa, M. F.; Lo Schiavo, S.; Ricca, M.; Ruffolo, S. A.; Ruocco, N.; Urzì, C., Surface-Active Ionic-Liquid-Based Coatings as Anti-Biofilms for Stone: An Evaluation of Their Physical Properties. *Coatings* **2023**, 13, (10), 1669.
6. Giugliano, R.; Della Sala, G.; Buonocore, C.; Zannella, C.; Tedesco, P.; Palma Esposito, F.; Ragozzino, C.; Chianese, A.; Morone, M. V.; Mazzella, V.; Núñez-Pons, L.; Folliero, V.; Franci, G.; De Filippis, A.; Galdiero, M.; de Pascale, D., New Imidazolium Alkaloids with Broad Spectrum of Action from the Marine Bacterium *Shewanella aquimarina*. *Pharmaceutics* **2023**, 15, (8), 2139.
7. Esposito, F. P.; Vecchiato, V.; Buonocore, C.; Tedesco, P.; Noble, B.; Basnett, P.; de Pascale, D., Enhanced production of biobased, biodegradable, Poly (3-hydroxybutyrate) using an unexplored marine bacterium *Pseudohalocynthiibacter aestuariivivens*, isolated from highly polluted coastal environment. *Bioresource Technology* **2023**, 368, 128287.
8. Dell’Anno, F.; van Zyl, L. J.; Trindade, M.; Buschi, E.; Cannavacciuolo, A.; Pepi, M.; Sansone, C.; Brunet, C.; Ianora, A.; de Pascale, D., Microbiome enrichment from contaminated marine sediments unveils novel bacterial strains for petroleum hydrocarbon and heavy metal bioremediation. *Environmental Pollution* **2023**, 317, 120772.
9. Buonocore, C.; Giugliano, R.; Della Sala, G.; Palma Esposito, F.; Tedesco, P.; Folliero, V.; Galdiero, M.; Franci, G.; de Pascale, D., Evaluation of Antimicrobial Properties and Potential Applications of *Pseudomonas gessardii* M15 Rhamnolipids towards Multiresistant *Staphylococcus aureus*. *Pharmaceutics* **2023**, 15, (2), 700.

10. Villanova, V.; Galasso, C.; Vitale, G. A.; Della Sala, G.; Engelbrektsson, J.; Strömberg, N.; Shaikh, K. M.; Andersson, M. X.; Palma Esposito, F.; Ekendahl, S.; de Pascale, D.; Spetea, C., Mixotrophy in a Local Strain of *Nannochloropsis granulata* for Renewable High-Value Biomass Production on the West Coast of Sweden. *Marine Drugs* **2022**, *20*, (7), 424.
11. Vasarri, M.; Vitale, G. A.; Varese, G. C.; Barletta, E.; D'Auria, M. V.; de Pascale, D.; Degl'Innocenti, D., Dihydroauroglaucin isolated from the Mediterranean sponge *Grantia compressa* endophyte marine fungus *Eurotium chevalieri* inhibits migration of human neuroblastoma cells. *Pharmaceutics* **2022**, *14*, (3), 616.
12. Montuori, E.; de Pascale, D.; Lauritano, C., Recent discoveries on marine organism immunomodulatory activities. *Marine Drugs* **2022**, *20*, (7), 422.
13. Della Sala, G.; Coppola, D.; Virgili, R.; Vitale, G. A.; Tanduo, V.; Teta, R.; Crocetta, F.; de Pascale, D., Untargeted metabolomics yields insights into the lipidome of *Botrylloides niger* Herdman, 1886, an ascidian invading the mediterranean sea. *Frontiers in Marine Science* **2022**, *9*, 865751.
14. Dell'Anno, F.; Vitale, G. A.; Buonocore, C.; Vitale, L.; Palma Esposito, F.; Coppola, D.; Della Sala, G.; Tedesco, P.; de Pascale, D., Novel insights on pyoverdine: from biosynthesis to biotechnological application. *International Journal of Molecular Sciences* **2022**, *23*, (19), 11507.
15. Coppola, D.; Buonocore, C.; Palisse, M.; Tedesco, P.; de Pascale, D., Exploring Oceans for Curative Compounds: Potential New Antimicrobial and Anti-Virulence Molecules against *Pseudomonas aeruginosa*. *Marine Drugs* **2022**, *21*, (1), 9.
16. Caruso, F.; Tedesco, P.; Della Sala, G.; Palma Esposito, F.; Signore, M.; Canese, S.; Romeo, T.; Borra, M.; Gili, C.; de Pascale, D., Science and dissemination for the UN ocean decade outcomes: Current trends and future perspectives. *Frontiers in Marine Science* **2022**, *9*, 863647.
17. Ausuri, J.; Dell'Anno, F.; Vitale, G. A.; Palma Esposito, F.; Funari, V.; Franci, G.; Galdiero, M.; Della Sala, G.; Tedesco, P.; Coppola, D., Bioremediation of multiple heavy metals mediated by Antarctic marine isolated *Dietzia psychrocaliphila* J11D. *Journal of Marine Science Engineering* **2022**, *10*, (11), 1669.
18. Zou, Y.; Tortorella, E.; Robbins, J.; Heyndrickx, M.; Debode, J.; De Pascale, D.; Raes, K. J. W.; Valorization, B., Bioactivity screening of hydrolysates from brown crab processing side streams fermented by marine *Pseudoalteromonas* strains. **2021**, *12*, 2459-2468.
19. Zannella, C.; Giugliano, R.; Chianese, A.; Buonocore, C.; Vitale, G. A.; 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**, *13*, (7), 1263.
20. Tortorella, E.; Giugliano, R.; De Troch, M.; Vlaeminck, B.; de Viçose, G. C.; de Pascale, D., The ethyl acetate extract of the marine edible gastropod *Haliotis tuberculata coccinea*: a potential source of bioactive compounds. *Marine Biotechnology* **2021**, *23*, 892-903.
21. Tedesco, P.; Palma Esposito, F.; Masino, A.; Vitale, G. A.; Tortorella, E.; Poli, A.; Nicolaus, B.; van Zyl, L. J.; Trindade, M.; de Pascale, D., Isolation and characterization of strain *Exiguobacterium* sp. KRL4, a producer of bioactive secondary metabolites from a Tibetan glacier. *Microorganisms* **2021**, *9*, (5), 890.
22. Parrilli, E.; Tedesco, P.; Fondi, M.; Tutino, M. L.; Giudice, A. L.; de Pascale, D.; Fani, R., The art of adapting to extreme environments: the model system *Pseudoalteromonas*. *Physics of Life Reviews* **2021**, *36*, 137-161.
23. Palma Esposito, F.; Giugliano, R.; Della Sala, G.; Vitale, G. A.; 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. *International journal of molecular sciences* **2021**, 22, (16), 9055.
24. Mutalipassi, M.; Riccio, G.; Mazzella, V.; Galasso, C.; Somma, E.; Chiarore, A.; de Pascale, D.; Zupo, V., Symbioses of cyanobacteria in marine environments: Ecological insights and biotechnological perspectives. *Marine Drugs* **2021**, 19, (4), 227.
 25. 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**, 13, (12), 2121.
 26. Funari, V.; Gomes, H. I.; Coppola, D.; Vitale, G. A.; Dinelli, E.; de Pascale, D.; Rovere, M., Opportunities and threats of selenium supply from unconventional and low-grade ores: A critical review. *Resources, Conservation and Recycling* **2021**, 170, 105593.
 27. Di Cesare Mannelli, L.; Palma Esposito, F.; Sangiovanni, E.; Pagano, E.; Mannucci, C.; Polini, B.; Ghelardini, C.; Dell'Agli, M.; Izzo, A. A.; Calapai, G., Pharmacological activities of extracts and compounds isolated from mediterranean sponge sources. *Pharmaceutics* **2021**, 14, (12), 1329.
 28. Coppola, D.; Lauritano, C.; Palma Esposito, F.; Riccio, G.; Rizzo, C.; de Pascale, D., Fish waste: From problem to valuable resource. *Marine drugs* **2021**, 19, (2), 116.
 29. Ausuri, J.; Vitale, G. A.; Coppola, D.; Palma Esposito, F.; Buonocore, C.; de Pascale, D., Assessment of the degradation potential and genomic insights towards phenanthrene by *Dietzia psychralcaliphila* jil d. *Antioxidants* **2021**, 9, (6), 1327.
 30. Vitale, G. A.; Sciarretta, M.; Palma Esposito, F.; January, G. G.; Giaccio, M.; Bunk, B.; Spröer, C.; Bajerski, F.; Power, D.; Festa, C.; Monti, M. C.; D'Auria, M. V.; de Pascale, D., Genomics–metabolomics profiling disclosed marine vibrio spartinae 3.6 as a producer of a new branched side chain prodigiosin. *Journal of Natural Products* **2020**, 83, (5), 1495-1504.
 31. Vitale, G. A.; Sciarretta, M.; Cassiano, C.; Buonocore, C.; Festa, C.; Mazzella, V.; Núñez Pons, L.; D'Auria, M. V.; 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. *International Journal of Molecular Sciences* **2020**, 21, (17), 6307.
 32. Vitale, G. A.; Coppola, D.; Palma Esposito, F.; Buonocore, C.; Ausuri, J.; Tortorella, E.; de Pascale, D., Antioxidant molecules from marine fungi: Methodologies and perspectives. *Antioxidants* **2020**, 9, (12), 1183.
 33. 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. *International journal of biological macromolecules* **2020**, 164, 2293-2300.
 34. Riccio, G.; Ruocco, N.; Mutalipassi, M.; Costantini, M.; Zupo, V.; Coppola, D.; de Pascale, D.; Lauritano, C., Ten-year research update review: Antiviral activities from marine organisms. *Biomolecules* **2020**, 10, (7), 1007.
 35. Coppola, D.; Oliviero, M.; Vitale, G. A.; Lauritano, C.; D'Ambra, I.; Iannace, S.; de Pascale, D., Marine collagen from alternative and sustainable sources: Extraction, processing and applications. *Marine drugs* **2020**, 18, (4), 214.
 36. Buonocore, C.; Tedesco, P.; Vitale, G. A.; Palma Esposito, F.; Giugliano, R.; Monti, M. C.; D'Auria, M. V.; de Pascale, D., Characterization of a new mixture of mono-rhamnolipids produced by *Pseudomonas gessardii* isolated from Edmonson Point (Antarctica). *Marine drugs* **2020**, 18, (5), 269.
 37. Tortorella, E.; Tedesco, P.; Palma Esposito, F.; January, G. G.; Fani, R.; Jaspars, M.; De Pascale, D., Antibiotics from deep-sea microorganisms: current discoveries and perspectives. *Marine Drugs* **2018**, 16, (10), 355.
 38. Sannino, F.; Sansone, C.; Galasso, C.; Kildgaard, S.; Tedesco, P.; Fani, R.; Marino, G.; de Pascale, D.; Ianora, A.; Parrilli, E., *Pseudoalteromonas haloplanktis* TAC125 produces 4-

- hydroxybenzoic acid that induces pyroptosis in human A459 lung adenocarcinoma cells. *Scientific reports* **2018**, 8, (1), 1190.
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