

PERSONAL INFORMATION

Antonia Giannakourou



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Sex Female Date of birth 12/11/1963| Nationality Hellenic.

EDUCATION AND TRAINING

- 1995:** Ph.D in Marine Ecology- Universite“Sciences et Techniques du Languedoc, Montpellier II France
Title of PhD Thesis: “Planktonic Food Webs in larval Sea Bream (*Sparus aurata*) rearing.”
- 1988:** Master of Sciences (M.Sc) “Aquaculture and Fisheries Management” - University of Stirling, U.K
- 1986:** Bachelor in Biology, Aristotelion University of Thessaloniki, Greece (8,5 final mark)

RESEARCH INTERESTS

Planktonic Food Webs: systematic and culture methods of microorganisms (Bacteria, Protozoa, Algae), distribution, ecology and diversity of aquatic prokaryotes and unicellular eukaryotes in diverse aquatic habitats, measurement of production and processes, role in planktonic food webs and in the flow of matter and energy.

Toxic phytoplankton in the field and in the laboratory (cultures), toxic blooms, toxin transfer within the food web, dinoflagellate cysts. **Microbial Ecology**, ciliate systematics and mixotrophy. **Microbial organisms as – model tools– in laboratory and mesocosm experiments** (growth/grazing/feeding experiments) in order to give answers into actual questions concerning how changes in temperature (e.g., global climate change), CO₂ (e.g. acidification), salinity (estuaries lagoons) and toxins influence microbial food webs. **Plankton indicators** for the monitoring and assessment of environmental status, in relation to the EU Marine Strategy Framework Directive. **Ballast Water** Management. **Microalgae biotechnology** and innovative applications, biomass production and added value compounds.

PERSONAL SKILLS

Languages: GREEK (mother langue),
ENGLISH (Proficient user-level C2),
FRENCH (Proficient user-level C2)

Communication skills: Good communication skills through my experience as a scientist

Organizational/managerial skills: Leadership/responsible in national projects and tasks in European projects (INTERPOL, FATE, EUROCEANS, PHYTO, MEDEX, MEDSEA, ATMOMED, ADAMANT, SESAME, MEDREGION, CRELEV-EUROFLEETS2). Responsible of the Microbial Ecology Lab, Institute of Oceanography-Anavissos. Nominated by the Administrative Board of HCMR to support the implementation of MSFD in Greece (Descriptor 4_Marine Food Webs). HCMR coordinator of MISTRAL Interreg MED Project-Mediterranean Innovation STRAtegy for transnational activity of clusters and networks of the Blue Growth, focusing on 5 blue growth sectors (Fishing & Aquaculture, Blue Energy, Blue Biotechnology, Maritime Surveillance, Coastal and Maritime Tourism) and active member of the EU2020 Coordination action BLUEMED CSA to support the BLUEMED Initiative. External expert in Blue Biotechnology for the Ministry of Development and Investment in the frame of PANORAMED- Mediterranean Governance Platform

Computer skills: Good command of Microsoft Office™ tools, Sigma Stat, Sigma Plot, Grapher, Surfer, Statgraphic Plus, Corel Draw, Primer, Systat, Image Pro Plus

Other skills and competences: Invited speaker in several meetings, workshops. Invited to give lectures in the frame of postgraduate studies in Greek universities, etc. Supervised several BSc and MSc theses and student training exercises in collaboration with Greek Universities and actually supervising 2 PhD theses.

Handling Editor for the Journal ‘*Mediterranean Marine Science*’. Invited Reviewer of scientific publications for: Journal of Plankton Research, Biogeosciences, Continental Shelf Research, Journal of Marine Biological Association UK, Environmental Monitoring and Assessment, PLOS-One, Vie et milieu, Polish Journal of Environmental Studies, Diversify, Écoscience, Science of the Total Environment. Invited Reviewer of international Projects: - Qatar Foudation Grants -RIA EU Projects -Marie Sklodowska-Curie Individual Fellowships (MSCA-IF) calls.

PUBLICATIONS (Selected publications since 2005)

40 research articles , h index 18, 1055 citations according to Elsevier SCOPUS.

- Giannakourou A.**, K.A. Kormas, P. Pitta, U. Christaki (2005). Microbes and the Microbial Food Web *In*: Papathanassiou E. & Zenetos A (eds) «State of the Hellenic Marine Environment», Hellenic Center for Marine Research (HCMR), Athens p 330-335. (ISBN 960-86651-8-3).
- Giannakourou A.**, T.Y. Orlova, G. Assimakopoulou, K. Pagou (2005). Dinoflagellate cysts in recent marine sediments from Thermaikos Gulf, Greece: Effects of resuspension events on vertical cyst distribution. *Cont. Shelf Res* 25:2585-2596.
- Polymenakou P.N, A. Pusceddu, A. Tselepidis, T. Polychronaki, **A. Giannakourou**, C. Fiordelmondo, E.Hatziyanni R.Danovaro, (2005). Benthic microbial abundance and activities in an intensively trawled ecosystem (Thermaikos Gulf, Aegean Sea). *Cont. Shelf Res* 25:2570-2584.
- Strogyloudi E., **A. Giannakourou**, C. Legrand, A. Ruehl, E. Graneli (2007). Estimating the accumulation and transfer of *Nodularia spumigena* toxins by the blue mussel *Mytilus edulis*: an appraisal from culture and mesocosm experiments. *Toxicon* 48: 359-372.
- Zervoudaki S., E.D. Christou, T.G. Nielsen, I. Siokou-Frangou, G. Assimakopoulou, **A. Giannakourou**, M. Maar, K. Pagou, E. Krassakopoulou, U. Christaki, M. Moraitou-Apostolopoulou (2007). The importance of small-sized copepods in a frontal area of the Aegean Sea. *J. Plankton Res* 29(4): 317-338.
- Reizopoulou S., Strogyloudi E., **Giannakourou A.**, Pagou K., Hatzianestis I., Pyrgaki C., Graneli E. (2008). Okadaic acid accumulation in macrofilter feeders subjected to natural blooms of *Dinophysis acuminata*. *Harmful Algae*, 7: 228-234.
- Economou G., E.D. Christou, **A. Giannakourou**, E. Gerasopoulos, D. Georgopoulos, V. Kotoulas, D. Lyra, N. Tsakalis, M. Tzortziou, P. Vahamidis, E. Papathanassiou, A. Karamanos (2008). Eclipse effects on field crops and marine zooplankton: the 29 March 2006 total solar eclipse. *Atmos. Chem.Phys.* 8: 4665-4676.
- Zeri C., Kontoyannis H., **Giannakourou A.** (2009). Distribution, fluxes and bacterial consumption of total organic carbon in a populated Mediterranean Gulf. *Cont. Shelf Res.* 29:886-895.
- Frangoulis K., Psarra S., Zervakis V., Meador T., Mara P., Gogou A., Zervoudaki S., **Giannakourou A.**, Pitta P., Lagaria A., Krassakopoulou E. Siokou I., (2010). Connecting plankton food web functioning and biogeochemical cycles in the Mediterranean area affected by the Black Sea water inflow. *J. Plankton Res.* 32 (8): 1203-1216.
- Zervoudaki S., G. Assimakopoulou, E.D. Christou, A.C. Gucu, **A. Giannakourou**, H. Orek, K. Pagou, V. Pitta, A. Moutsopoulos, N. Ycel, I. Siokou-Frangou, E. Ozsoy and E. Papathanassiou, 2011. Copepod communities, production and grazing in the Turkish Straits System and the adjacent northern Aegean Sea. *J. Marine Sys.* 86(3-4), 45-56.
- Zeri C., S. Besiktepe, **A. Giannakourou**, D. Tsiolakas, E. Krasakopoulou, A. Pavlidou, E. Pitta, M. Tzortziou, G. Mouzdis and M. Scoullou, 2013. Chemical and optical properties of DOM in relation to biodegradation from the Marmara to the North Aegean Sea during September 2008. *J. Mar. Sys.* 135 (124-136).
- Giannakourou A.**, Tsiola A., Kanellopoulou M., Magiopoulos I., Siokou I., Pitta P., (2014). Temporal variability of the microbial food web (viruses to ciliates) under the influence of the Black Sea Water inflow (N. Aegean, E. Mediterranean). *Med. Mar. Sci.* 15 (4): 769-780.
- Kormas K.Ar., Karayanni H., Christaki U., **Giannakourou A.**, Assimakopoulou G., Gotsis Skretas O. (2014). Microbial food web and its impact on primary production in Pagasitikos Gulf *Turkish Journal of Aquatic Sciences* 14: 1-11 DOI: 10.4194/1303-2712-v14_2_24.
- Balkis N., Balci M., **Giannakourou A.**, Venetsanoloulou A., Mudie P., (2016). Dinoflagellate resting cysts in recent marine sediments from the Gulf of Gemlik (Marmara Sea, Turkey) and seasonal harmful algal blooms. *Phycologia* 55(2): 187-209.
- Herut B., Rahav E., Tsagaraki T.M., **Giannakourou A.**, Tsiola A., Psarra S., Lagaria A., Papageorgiou N., Mihalopoulos N., Theodosi C.N., Violaki K., Stathopoulou E., Scoullou M., Krom M.D., Stockdale A., Zongbo S., Berman-Frank I., Meador T.B., Tsuneo T., Pitta P. (2016). The potential impact of Saharan dust and polluted aerosols on microbial populations in the East Mediterranean Sea, an overview of a mesocosm experimental approach. *Frontiers in Marine Science* 3:226. doi: 10.3389/fmars.2016.00226
- Rahav E., Shun-Yan C., Cui G., Liu H., Tsagaraki T.M., **Giannakourou A.**, Tsiola A., Psarra S., Lagaria A., Mulholland M.R., Stathopoulou E., Paraskevi P, Herut B and Berman-Frank I. (2016). Evaluating the Impact of Atmospheric Depositions on Springtime Dinitrogen Fixation in the Cretan Sea (Eastern Mediterranean)—A Mesocosm Approach. *Frontiers in Marine Science* 3:180. doi: 10.3389/fmars.2016.00180
- Cui Guo, Xiaomin Xi., P. Pitta, B. Herut, E. Rahav, I. Berman-Frank, **A. Giannakourou**, A.Tsiola, T. M.Tsagaraki and H. Liu (2016). Shifts in Microbial Community Structure and Activity in the Ultra-Oligotrophic Eastern Mediterranean Sea Driven by the Deposition of Saharan Dust and European Aerosols *Frontiers in Marine Science* 3:170. doi: 10.3389/fmars.2016.00170
- Tsiola A., Pitta P., **Giannakourou A.**, Gazeau F. (2017). Ocean acidification and viral replication cycles: Frequency of lytically infected and lysogenic cells during a mesocosm experiment in the NW Mediterranean Sea. *Estuarine Coastal and Shelf Science* 186 Part A 139-151.
- Cellusi M., Malfatti F., Franzo A., Gazeau F., **Giannakourou A.**, Pitta P., Tsiola A., Del Negro P. (2017) Ocean acidification effect on prokaryotic metabolism tested in two diverse trophic regimes in the Mediterranean Sea. *Estuarine Coastal and Shelf Science* 186 Part A 125-138.
- Parinos K., Gogou A., Krasakopoulou E., Lagaria A., **Giannakourou A.**, Karageorgis A.P., Psarra S. (2017). Transparent Exopolymer Particles (TEP) in the NE Aegean Sea frontal area: Seasonal dynamics under the influence of Black Sea water. *Continental Shelf*

Research, *in press*

- Tsiola A., Tsagaraki T.M., **Giannakourou A.**, Nikolioudakis N., Yucel N., Herut B., Pitta P. (2017). Bacterial Growth and Mortality after Deposition of Saharan Dust and Mixed Aerosols in the Eastern Mediterranean Sea: A Mesocosm Experiment. *Frontiers in Marine Science* 3:281. doi: 10.3389/fmars.2016.00281
- Pitta P, Kanakidou M, Mihalopoulos N, Christodoulaki S, Dimitriou PD, Frangoulis C, **Giannakourou A**, Kagiorgi M, Lagaria A, Nikolaou P, Papageorgiou N, Psarra S, Santi I, Tsapakis M, Tsiola A, Violaki K and Petihakis G (2017) Saharan Dust Deposition Effects on the Microbial Food Web in the Eastern Mediterranean: A Study Based on a Mesocosm Experiment. *Frontiers in Marine Science* 4:117. doi: 10.3389/fmars.2017.00117.
- Luo Z., Krock, B., **Giannakourou A.**, Venetsanopoulou A., Pagou K., Tillmann U., Gu H. (2018). Sympatric occurrence of two *Azadinium poporum* ribotypes in the Eastern Mediterranean Sea. *Harmful Algae* 78:75-85. doi.org/10.1016/j.hal.2018.08.003.
- Varkitzi I., Francé J., Basset A., Cozzoli F., Stanca E., Zervoudaki S., **Giannakourou A.**, Assimakopoulou G., Venetsanopoulou A., Mozetič P., Tinta T., Skejic S., Vidjac O., Cadiou J.-F., Pagou K., (2018). Pelagic habitats in the Mediterranean Sea: A review of Good Environmental Status (GES) determination for plankton components and identification of gaps and priority needs to improve coherence for the MSFD implementation. *Ecological Indicators* 95(1):203-218. doi.org/10.1016/j.ecolind.2018.07.036.
- Francocci F., Paifelman E., Ciappi E., Cedre A., Le Corff C., Ruel C., Falini G., Efstratiou C., **Giannakourou A.**, Solano-Lopez J.M., Stroglyoudi E., Raddadi N., Pistocchi R., Valentini S., Barbanti A., (2019). Blue Growth Book: State of the art assessment and overview on the most relevant drivers and opportunities in the Mediterranean Blue Economy. doi.org/10.5281/zenodo.3242281, pp.163

MEMBERSHIPS

- ASLO American Society of Oceanography
- MIKROBIOKOSMOS non-profit scientific company.
- FEMS -Federation of European Microbiological Societies
- ISSHA -EUROHAB Working Group
- Ocean Acidification Exchange Information Community
- Working Group on Good Environmental Status (WG GES) - Expert nomination for D.5
- ICES/IOC/IMO Working Group on Ballast and Other Ship Vectors