

PERSONAL INFORMATION	
SURNAME	TSIKOPOULOU
NAME	IRINI
DATE OF BIRTH	15.02.1988
PLACE OF RESIDENCE	HERAKLION, CRETE
e-mail	<i>itsikopoulou@hcmr.gr</i>
TEL.	+302810337727
ORCHID ID	https://orcid.org/0000-0002-8525-3466

CURRENT POSITION(S)

06.2020 - present Member of the workgroup for the implementation of Marine Strategy Framework Directive 2008/56/EU

PREVIOUS POSITION(S)

06.2020 – 30.10.2021 Post doc research scholarship, Project title: Sources of variability in functional diversity of the benthic ecosystem: functional redundancy as an indicator of seafloor integrity

Institute of Oceanography, HCMR

02.2020 – 03.2020 Member of the workgroup for the development of Mediterranean Fish Welfare: guide to good practices and assessment indicators

Biology Dep., UOC

07.2019 – 01.2020 Member of the workgroup, IDMA: Innovative development of multitrophic aquaculture

Biology Dep., UOC

01.2019 – 10.2019 Member of the workgroup for the implementation of the Marine Strategy Framework Directive in Cyprus

AP Marine Environmental Consultancy Ltd, Cyprus

03.2016 – 12.2017 Member of the workgroup, AquaSpace: Ecosystem Approach to making Space for Sustainable Aquaculture

Biology Dep., UOC

06.2014 – 06.2015 Member of the workgroup, Hypoxia: Benthic pelagic coupling: hypoxia and regime shifts

Biology Dep., UOC

12.2013 – 12.2015 Member of the workgroup, Lifewatch Greece: Cataloging and monitoring Greek Biodiversity

Institute of Marine Biology, Biotechnology and Aquaculture (IMBBC), HCMR

2012 and 2016 Member of the workgroup, Marine Strategy Framework Directive (MSFD)

Biology Dep., UOC

EDUCATION

- 03.2013 - 10.2018** **PhD**
Biology Department, University of Crete, Greece
Thesis title: Long-term effects of human activities on the benthic ecosystem: revisiting sampling sites after 24 years
- 09.2010 - 09.2012** **MSc “Environmental Biology and Management of Terrestrial and Marine Resources” [Excellent (9,78)]**
Department of Biology, University of Crete, Greece
Thesis title: Experimental approach of the effects of organic enrichment in phototrophic bacterial composition on marine sediment
- 09.2005 – 02.2010** **BSc in Biology [Very good (8,28)]**
Department of Biology, Aristotle University of Thessaloniki, Greece
- 06.2005** **High School Diploma [Excellent (19,4)]**

PUBLICATIONS

- Panagiotis D Dimitriou, Ioulia Santi, Manos L Moraitis, Irini Tsikopoulou, Paraskevi Pitta and Ioannis Karakassis (2022). Benthic-pelagic coupling in the oligotrophic Eastern Mediterranean: A synthesis of the HYPOXIA project results, *Frontiers in Marine Science*, 9, DOI=10.3389/fmars.2022.886335
- ICES, (2022) Working Group on Fisheries Benthic Impact and Trade-Offs (WGFBIT; outputs from 2021 meeting). International Council for the Exploration of the Sea.
- Tsikopoulou Irini, Dimitriou Panagiotis D., Karakassis Ioannis, Lampadariou Nikolaos, Papadopoulou Nadia, Smith Christopher J., (2021). Temporal Variation in the Ecological Functioning of Benthic Communities After 20 Years in the Eastern Mediterranean, *Frontiers in Marine Science*, 8, DOI=10.3389/fmars.2021.768051
- Tsikopoulou, I., Lampa, M., Tsiola, A., Pitta, P., Tsapakis, M., Karakassis, I. Functional adaptations of benthic communities to organic matter enrichment at the edge of an Allowable Zone of Effect (AZE) (2021). *Estuarine, Coastal and Shelf Science*, 262,107596, <https://doi.org/10.1016/j.ecss.2021.107596>.
- Tsikopoulou, I., Santi, I., Dimitriou, P.D., Papageorgiou, N., Pitta, P., Karakassis, I. Response of Microphytobenthos and Benthic Bacteria Viability to Eutrophication in a Benthic–Pelagic Coupling Mesocosm Experiment (2020) *Frontiers in Marine Science*, 7, art. no. 270, DOI: 10.3389/fmars.2020.00270
- Tsikopoulou, I., Papageorgiou, N., Tsiavos, T., Fodelianakis, S., Kotzabasis, K., Karakassis, I. Microphytobenthic response to organic matter enrichment: Does the same stressor lead to identical communities? (2019) *Regional Studies in Marine Science*, 29, art. no. 100682, DOI: 10.1016/j.rsma.2019.100682
- Tsikopoulou, I., Smith, C.J., Papadopoulou, N.K., Eleftheriadou, E., Karakassis, I. A fishing ground benthic ecosystem improved during the economic crisis (2019) *ICES Journal of Marine Science*, 76 (2), pp. 402-409. DOI: 10.1093/icesjms/fsy176

- Tsikopoulou, I., Moraitis, M.L., Geropoulos, A., Papadopoulou, K.N., Papageorgiou, N., Plaiti, W., Smith, C.J., Karakassis, I., Eleftheriou, A. Long-term changes in the structure of benthic communities: Revisiting a sampling transect in Crete after 24 years (2019) *Marine Environmental Research*, 144, pp. 9-19. DOI: 10.1016/j.marenvres.2018.11.008
- Moraitis, M.L., Tsikopoulou, I., Geropoulos, A., Dimitriou, P.D., Papageorgiou, N., Giannoulaki, M., Valavanis, V.D., Karakassis, I. Molluscan indicator species and their potential use in ecological status assessment using species distribution modeling (2018) *Marine Environmental Research*, 140, pp. 10-17. DOI: 10.1016/j.marenvres.2018.05.020
- Tsikopoulou, I., Moraitis, M.L., Tsapakis, M., Karakassis, I. Can intensive fish farming for 20 years induce changes in benthic ecosystems on a scale of waterbody? An assessment from Cephalonia bay (Ionian Sea) (2018) *Environmental Monitoring and Assessment*, 190 (8), art. no. 469, DOI: 10.1007/s10661-018-6846-5
- Vasileiadou, K., Pavludi, C., Camisa, F., Tsikopoulou, I., Fragopoulou, N., Kotoulas, G., Arvanitidis, C. Genetic diversity of *Nephtys hombergii* (Phyllodocida, Polychaeta) associated with environmental factors in a highly fluctuating ecosystem (2018) *Journal of the Marine Biological Association of the United Kingdom*, 98 (4), pp. 777-789. DOI: 10.1017/S0025315416001910
- Dimitriou, P.D., Papageorgiou, N., Geropoulos, A., Kalogeropoulou, V., Moraitis, M., Santi, I., Tsikopoulou, I., Pitta, P., Karakassis, I. Benthic pelagic coupling in a mesocosm experiment: Delayed sediment responses and regime shifts (2017) *Science of the Total Environment*, 605-606, pp. 637-645. DOI: 10.1016/j.scitotenv.2017.06.239
- Dimitriou, P.D., Papageorgiou, N., Geropoulos, A., Kalogeropoulou, V., Moraitis, M., Santi, I., Tsikopoulou, I., Pitta, P., Karakassis, I. A novel mesocosm setup for benthic-pelagic coupling experiments (2017) *Limnology and Oceanography: Methods*, 15 (4), pp. 349-362. DOI: 10.1002/lom3.10163
- Fodelianakis, S., Moustakas, A., Papageorgiou, N., Manoli, O., Tsikopoulou, I., Michoud, G., Daffonchio, D., Karakassis, I., Ladoukakis, E.D. Modified niche optima and breadths explain the historical contingency of bacterial community responses to eutrophication in coastal sediments (2017) *Molecular Ecology*, 26 (7), pp. 2006-2018. DOI: 10.1111/mec.13842
- Tsikopoulou, I., Legaki, A., Dimitriou, P.D., Avramidou, E., Bailly, N., Nikolopoulou, S. Digging for historical data on the occurrence of benthic macrofaunal species in the southeastern Mediterranean (2016) *Biodiversity Data Journal*, 4 (1), art. no. e10071, DOI: 10.3897/BDJ.4.e10071
- Fodelianakis, S., Antoniou, E., Mapelli, F., Magagnini, M., Nikolopoulou, M., Marasco, R., Barbato, M., Tsiola, A., Tsikopoulou, I., Giaccaglia, L., Mahjoubi, M., Jaouani, A., Amer, R., Hussein, E., Al-Horani, F.A., Benzha, F., Blaghen, M., Malkawi, H.I., Abdel-Fattah, Y., Cherif, A., Daffonchio, D., Kalogerakis, N. Allochthonous bioaugmentation in ex situ treatment of crude oil-polluted sediments in the presence of an effective degrading indigenous microbiome (2015) *Journal of Hazardous Materials*, 287, pp. 78-86. DOI: 10.1016/j.jhazmat.2015.01.038

CONFERENCES/WORKSHOPS/etc.

- ECSA58, Online Conference September 2021
 - ICES WGFBIT Online Meeting: 14-17 September 2020
 - 17o Ichthyology Proceeding, November 2019, Heraklion
 - 51st European Marine Biology Symposium, 26-30 September 2016, Rhodes, Greece
 - 16th International Meiofauna Conference, 3-8 July 2016, Heraklion., Greece
 - 13th ICZEGAR, 7-11 October 2015, Heraklion, Greece
 - 11th Hellenic symposium of oceanography and fishing. 13 – 17 May 2015, Lesvos Island, Greece
 - Aquatic Sciences Meeting, 22-27 February 2015, Granada, Spain
 - DHI training Workshop, October, 2014, Horsholm, Denmark
 - Congress for the European Society for Evolutionary Biology, 19-24 September 2013, Lisbon, Portugal
 - 14th International Symposium on Microbial Ecology, 19 -24 August 2012, Copenhagen, Denmark
 - 10th Hellenic symposium of oceanography and fishing, May 2012, Athens, Greece
 - 39th CIESM Congress, 10-14 May 2010, Venice, Italy
-

FELLOWSHIPS and AWARDS

- 2020-2021** Post doc Scholarships- Partnership Agreement (PA) 2014-2020 Project title: Sources of variability in functional diversity of the benthic ecosystem: functional redundancy as an indicator of seafloor integrity
- 2019-2020** Post doc Scholarships- *“Reinforcement of Postdoctoral Researchers - 2nd Cycle” (MIS-5033021), implemented by the State Scholarships Foundation (IKY)*
- 2010-2012** First prize award for the first year of study in the MSc program “Environmental Biology and Management of Terrestrial and Marine Resources”, Department of Biology, UOC

RESEARCH GRANTS

Project Title	Funding	Role of the PI
Marine Strategy Framework Directive (MSFD) (2008/56/EC; 2017/845/EC)	EU	Monitoring and assessment of Descriptor D6: Seafloor integrity
FARE: Sources of variability in functional diversity of the benthic ecosystem: functional redundancy as an indicator of seafloor integrity	ESIF/ PA 2014-2020	Collection of species functional types data, implementation of functional redundancy indicator to assess seafloor integrity

GloBenth: Global scale quantitative patterns in the response of benthic organisms to environmental disturbance	HFRI	Data manager, extracting and manipulating biodiversity data from global marine databases
IDMA: Innovative development of multitrophic aquaculture	ESIF/PA 2014-2020	Contribution to sampling, microcosm experiments and biogeochemical data analysis
AquaSpace: Ecosystem Approach to making Space for Sustainable Aquaculture	EU-H2020	Study the impacts of aquaculture on the benthic ecosystem. Data manager
Hypoxia: Benthic pelagic coupling: hypoxia and regime shifts	EU/GSRT Aristeia II	Study the effects of organic enrichment on benthic ecosystem. Contribution to sample cruises, mesocosm experiments, field sampling, macrofaunal and geochemical data analysis
Lifewatch Greece: Cataloging and monitoring Greek Biodiversity	GSRT	Marine biodiversity data manager
Marine Strategy Framework Directive (MSFD) (2008/56/EC; 2017/845/EC)	EU	Consultant of technical support and assistance for the implementation of MSFD
ECODISC: ECOsystem effect of fisheries DISCards	GSRT	Contribution to sample cruises, field sampling, microcosm experiments, macrofaunal and geochemical analysis
HAME. Hypoxia Acidification in the Mediterranean Sea	GSRT	Contribution to sampling, microcosm experiments and biogeochemical analysis

SCIENTIFIC ACHIEVEMENTS

Dr. Irini Tsikopoulou has been involved in more than 10 RTD projects, focusing on marine ecology, biodiversity and ecosystem function of benthic communities and ecological status assessment. Her scientific interests are orientated towards the long-term impacts of human activities, including eutrophication, bottom fishing and aquaculture effects, on the benthic ecosystem. During her academic and working experience, she has collaborated with researchers from different fields of science including researchers from Biology Department (UOC), Chemistry Department (UOC), Institute of Oceanography and Institute of Marine Biology, Biotechnology and Aquaculture at HCMR. She has authored or co-authored 16 papers (8 as a corresponding author) published in international peer reviewed journals, while results of her work have been published in 20 conference presentations and posters.