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Keynote Speakers CV

Agostinho Antunes
CIIMAR | Portugal

Alexandra Teodósio
CCMAR | Portugal

Américo Rodrigues
MARE-IPLeiria | Portugal

Antonina dos Santos
IPMA | Portugal

Catarina Magalhães
CIIMAR | Portugal

Juan Carlos Molinero
IRD · MARBEC | France

Marco Lemos
MARE-IPLeiria | Portugal

Peter Tiselius
University of Gothenburg | Sweden

Sam Dupont
University of Gothenburg | Sweden

Sérgio Leandro
MARE-IPLeiria | Portugal

Sónia Cotrim
MARE-IPLeiria · IPMA · CIMAR | Portugal

Susana Garrido
IPMA | Portugal



Agostinho Antunes
Genomic tools for plankton research

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Prof. Agostinho Antunes is the Head of the Evolutionary Genomics and Bioinformatics Group from the CIIMAR, University of Porto and Department of Biology, Faculty of Sciences, University of Porto. He is also the Scientific-Technical Director of the Matosinhos Environmental Center (CMIA) from the Câmara Municipal de Matosinhos, a center that has as the main goal to do science diffusion and environmental education and monitoring. His research developed comprehends several distinct areas within the field of genetics, such as comparative genomics, molecular evolution

and natural selection studies, toxicogenomics and biotechnology, software development and bioinformatics, genetic diversity of invasive and endangered species, molecular ecology and conservation genetics of metazoan wildlife and associated microbes. He has over 130 papers published in ISI journals including Science, Genome Research, Molecular Biology and Evolution, Genome Biology, Current Biology, Natural Product Reports, Nature communications, PLoS Genetics, Global Change Biology, Critical Reviews in Biotechnology, etc.

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Alexandra Teodósio

Biophysical processes leading to the ingress of temperate fish larvae into estuarine nursery areas: A review

Maria Alexandra Teodósio is an Associate Professor with Aggregation at the University of Algarve, Portugal, where she teaches for the last 30 year, and she was co-coordinator of several master and PhD programmes, namely Marine Biology, Biodiversity and Marine Conservation, Marine and Environmental Sciences. She had experience in supervising students in marine biology, being involved in the supervision of 10 PhD students, 25 masters' students, and over 35 undergraduates. She develops her research about estuarine ecology and biological oceanography at the CCMAR, where she is the coordinator of the Ecoreach group. Her major interests include global change impacts on biodiversity, including acidification, non-indigenous species and jellyfish blooms. She is the coordinator of the planktonic time series in South Iberia Lower Guadiana Station (IGMETS-ICES - NOAA),

where more than 12 invasive species has been detected. Her expertise with temperate fish larval ecology of different species, from *Sardina pilchardus*, *Sparus aurata* and *Solea senegalensis* allows detailed studies about interaction with condition, survival, swimming abilities and behaviour. Recently she is coordinating several projects in the field of capacitation for marine science in African countries. She is a permanent external evaluator of the Research Foundation-Flanders (FWO) in the expert Panel Biodiversity and Ecology), since 2013 and has been involved in 22 European and national funded research projects. She is an Associate Editor of the Estuarine Coastal Shelf Science. She has published more 80 peer-reviewed research articles and has contributed to six book chapters.

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Américo Rodrigues

eDNA - Environmental DNA as a tool to evaluate status of marine ecosystems

Américo Rodrigues is an assistant professor at the School of Tourism and Maritime Technology Polytechnic Institute of Leiria (ESTM-IPLeia). He is a member of MARE IPLeia research unit, and a Visiting Scientist at Instituto Gulbenkian de Ciência.

He has been interested in the plant molecular biology field, particularly the abscisic acid

signalling pathway and its connection to energy signalling. Lately, he become involved in projects using molecular biology techniques to characterize aquatic environments, mainly the detection and identification of microorganisms and the characterization of plankton populations.

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Antonina dos Santos Zooplankton and upwelling events

Antonina is Senior Scientist at the Instituto Português do Mar e da Atmosfera (IPMA) in Lisbon, Portugal. Her role is to lead plankton and oceanography research and to provide advice on ecosystem health and biodiversity for Portuguese marine areas. Her scientific work focuses on how critical connections in the complex life cycles of marine invertebrates regulate population dynamics in oceanic and coastal communities. Her research intends to advance understanding

and application of ecosystem-based management. She has been involved in many (22) scientific projects subject to competitive tendering national and European multidisciplinary, 6 of which as coordinator. The results of her scientific activities are reflected in the publication of over 60 scientific articles published in international journals. Antonina has previously worked as Director of the Department of Sea and Marine Resources at IPMA.

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Catarina Magalhães
MarinEye - New concept of ocean observation

PhD in Marine Sciences, researcher of CIIMAR, invited assistant professor at University of Porto and member of the coordination committee of Portuguese Polar Program. Her major research is on understanding how microbial derived nitrogen machineries interact and to identify the mechanisms regulating their operation. She focus her research on the impact of pollutants in marine N-biogeochemical pathways and in identifying the environmental constraints and controls on microbial Nitrogen pathways distribution including in extreme environments

(Arctic/Antarctica). In the context of her research the methodologies she use are mainly biogeochemical measurements, microbiome sample processing and genomic and metagenomic work flow analysis. She is also involved in interdisciplinary projects focus on the development of *in situ* and ocean monitoring tools (MarinEye; <http://marineye.ciimar.up.pt/>) and standards (EMOSE2017; <https://www.euromarinenetwork.eu/EMOSE>) to generate integrated biological, physical and chemical data sets synchronized in time and space.

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Juan Carlos Molinero

The global anthropogenic imprint on the large scale, long term changes of jellyfish – ecological and societal challenges and implications

Directeur de Recherche – Institut de Recherche pour le Développement, MARBEC, Sète, France. My research interests are broadly on the ecology of pelagic ecosystems, from individuals to food web structure and ecosystem function. I use complementary approaches to answer general questions in plankton ecology under changing environments and to quantify

the impact synergies of climate and human disturbances have on plankton production and pelagic networks. Also, I am particularly interested in across system analyses, non-linear dynamics of biological systems and general laws in ecosystem functioning.

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Marco Lemos

Linking stress through different levels of biological organization – from the gene to the ecosystem

Marco Lemos holds his PhD in Biology since 2009 and is now Associate Professor at the Polytechnic Institute of Leiria. Presently he heads the national MARE – Marine and Environmental Sciences Centre biotechnology branch. He is now involved in several post-doc, PhD and MSc supervision as well as national and international collaborations in works involving the study of toxicological mechanism pathways using “omic” technologies and other biomarker

tools to assess contamination in terrestrial, freshwater and marine environments, while linking levels of biological organization. He is the PI of several national and international projects including other research centres and the industry, and has authored over 150 communications in international conferences and several articles in international peer-reviewed journals and book chapters.

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Peter Tiselius

Community cascades in a marine pelagic food web

Peter Tiselius is professor in marine zooplankton ecology. He studies predator-prey interactions, physical-biological coupling and food web dynamics in the pelagic environment. Trophic cascades among the microzooplankton is a recent focus, as is the transfer and accumulation of essential fatty acids in the food web. Among the first to study copepods using video, he has been interested in the interaction between copepods and their local environment, from swimming behaviour and food capture, to predator avoidance.

He has made significant contributions to the autecology of pelagic tunicates (*Oikopleura dioica*) and studied the aggregation of phytoplankton blooms into fast-sinking aggregates, known as marine snow. He coordinated the "Baltic Zooplankton Cascades" project, which studied the ecological impact of the comb jelly *Mnemiopsis leidyi* introduced to Swedish waters. He has worked mainly at Kristineberg Marine Research Station as researcher, head of department and station director.

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Sam Dupont

Minimizing and addressing the impacts of ocean acidification

Sam Dupont is an Associate Professor in Marine Eco-Physiology at the University of Gothenburg in Sweden. His main research topic is on the effect of global changes (e.g. ocean acidification, warming) on marine ecosystems. His work aims at revealing the mechanisms behind species and ecosystem responses (physiology, ecology, evolution) to environmental changes and at developing the needed unifying theory for large scale projections. He was published in 150 publications in journals including Nature, PNAS and TREE. He is a member of the Advisory Board of the Ocean Acidification International Coordination Centre (OA-ICC), the Executive

Council of the Global Ocean Acidification Observing Network (GOA-ON) and the Steering committee of the EuroMarine consortium. He is also working on the development of innovative science communication and education strategies to tackle global challenges through his leading role in the Centre for Collective Action Research (CeCAR), the Nordic Centre of Excellence on Sustainable and Resilient Aquatic Production (SUREAQUA) and the Inquiry to Student Environmental Actions project (I2SEA). The third aspect of his work aims at evaluating and building capacities for marine science in developing countries.

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Sérgio Leandro

Jellyfisheries – Towards an integrated approach to enhance predictive accuracy of the jellyfish impact on coastal marine ecosystems

Sergio Leandro is deputy director of the School of Tourism and Maritime Technology – Polytechnic Institute of Leiria (ESTM-IPLeia) and Co-Manager of the UNESCO Biosphere Reserve of Berlengas/Peniche (Portugal). He is a member of MARE IPLeia research unit, and author or co-author of 4 books and more than 20 scientific articles in ISI journals and 60 communications. He has been involved in several research projects related to the study of allopatric copepod populations, temperature-dependent copepod growth models and secondary production. Actually,

he is PI of the project Jellyfisheries based on an interdisciplinary approach that includes the retrospective analysis of bio-climatic data, field data and experimental trials, supplemented by remote sensing data, new molecular-based tools (DNA barcoding and pyosequencing) applied to biological samples and development of predictive models in association with hydrological parameters. He is/was principal investigator of several research projects in the areas of Marine Ecology, Marine Biotechnology, Fisheries and Aquaculture and Ocean Literacy.

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Sónia Cotrim

Climate variability and planktonic community

Sonia Cotrim Marques is currently a post-doc research (funded by FCT) working at the Portuguese Institute for Sea and Atmosphere (IPMA), in collaboration with the Marine and Environmental Sciences Centre (MARE-IPLeia), and the Interdisciplinary Centre of Marine and Environmental Research (CIIMAR). She obtained her degree in Biology from the University of Aveiro, Portugal. It was during her stay at Aveiro, influenced by the natural ecosystem resource that surrounds and involves the city, that she had her first contact with marine ecology. She obtained her PhD in Biology, in 2009 (University of

Coimbra). Her scientific career has revolved around zooplankton ecology and the functioning of pelagic ecosystems in regards to climate-induced changes.

Recently, she coordinated the FCT project COMPARE, which dealt with questions pertaining zooplankton structure and dynamics driven by climate variability in coastal ecosystems. She is Chair-invited Member of the ICES Working Group on Zooplankton Ecology (WGZE). Actually, she is member of the coordination of MARE-IPLeia, being responsible for science communication and outreach.

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Susana Garrido

Climate change and pelagic fishes

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Dr. Susana Garrido is a Senior Researcher of Marine Sciences at the Portuguese Institute for the Ocean and Atmosphere (IPMA). Her research has been mostly focused on the ecology and biology of pelagic fish species, from larvae to adults, particularly small pelagics of the Western Iberian Upwelling ecosystem. She recently co-authored a comprehensive book chapter on the trophic ecology of sardine

and anchovy species of the world. In her work she uses complementary techniques such as gut analysis, fatty acid biomarkers and stable isotopes to assess the feeding ecology of small pelagic fish, and laboratory experimentation to describe vital rates and foraging in relation to environmental factors. Additional research interests include zooplankton ecology and maternal effects.

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