

# HydroMedit 2021

4<sup>th</sup> International Congress on  
Applied Ichthyology, Oceanography  
& Aquatic Environment

4-6 November 2021

Virtual

[www.hydromedit.gr](http://www.hydromedit.gr)



Organised by



Department of Ichthyology  
and Aquatic Environment (DIAE),  
School of Agricultural Sciences,  
University of Thessaly (UTH)



Department  
of Marine Sciences (DMS),  
School of the Environment  
University of the Aegean (UoA)



UNIVERSITY OF  
PATRAS  
ΠΑΝΕΠΙΣΤΗΜΙΟ ΠΑΤΡΩΝ

Department of Animal Production,  
Fisheries & Aquaculture  
University of Patras

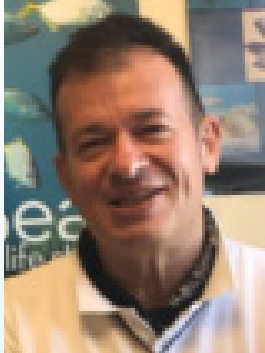


Panhellenic Society  
of Technologists Ichthyologists  
(PASTI)



## Chairman's Welcome Message

Dear colleagues and friends,



To date "HydroMediT" is being established as one of the major International Congresses on novel scientific and technological trends and aspects on Aquatic Living Resources and Oceanography in our region, covering the Mediterranean and its adjacent Seas.

It is organized biannually by a highly dedicated Committee on behalf of the:

- [Department of Ichthyology and Aquatic Environment \(DIAE\), University of Thessaly](#)
- [Department of Marine Sciences \(DMS\), University of the Aegean](#)
- [Department of Animal Production, Fisheries and Aquaculture Department \(DAPFA\), University of Patras](#)
- [Panhellenic Society of Technologists Ichthyologists \(PASTI\)](#)

Our 4<sup>th</sup> Congress (**HydroMediT 2021**) would have been hosted in Mytilini, Island of Lesbos, Hellas (<http://www.mytilene.gr/>), in the premises of the University of the Aegean, with a series of National and International stakeholders as Co-Organizers, Supporters and Sponsors. However, the Covid-19 pandemic has led the Congress organizers to postpone the event and res-schedule this virtually this year on 4-6 November 2021.

The general fields and the specific topics of the Congress will attract contributions from all over the Mediterranean and its adjacent seas, and their list can be viewed in full on the Congress website, which is updated regularly.

There is an outstanding set of Keynote Speakers from many fields of the Fisheries, Oceanography, Marine Ecology, Aquaculture and Seafood supply Industry, Aquatic Environment as well as Government Agencies, Environmental Bodies, and Biodiversity Scientists. We have joined our forces and resources in order to host a series of high-profile panel discussions on the encountered thematic and parallel sessions of the Congress. Furthermore, our Congress provides an ideal forum for interactions between Scientists, Regulators, Industry Stakeholders, and the concerned General Public, and has already attracted pivotal support from a range of delegates and interested groups.

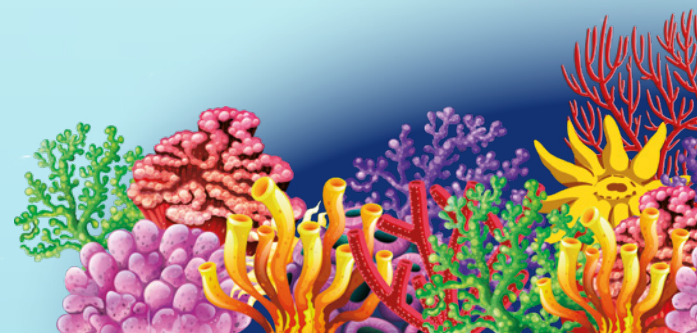
The main topic of the 4<sup>th</sup> Congress (**HydroMediT 2021**) "*Aquatic Living Resources, Conservation and Oceanography in an Era of Change*", highlights the changes and the impact on the aquatic ecosystems and their resources. Policy Makers, Industry players, Scientists, and Conservationists shall work together as they are all determined to deal with the challenges for the sustainability of the aquatic environment and its living resources in a changing world.

The main Keynote Speaker of the Congress will be the distinguished Professor ALBERTO BASSET of the University of Salento, addressing on "*Biodiversity, Ecosystem Services and Natural Capital of the Mediterranean Transitional Ecosystems*", and the different sessions will run from **Thursday 4th to Saturday 6th November 2021**.

We welcome you to enjoy the Congress sessions!

For the Organizing Committee,

**Drosos Koutsoubas**  
*Chairman of the Congress*





## General Information

**HydroMediT 2021** will focus on research and innovation technology applied mainly in the Mediterranean and its adjacent waters, but interesting solutions from other parts of the world will also be accepted.

Main topic of the Congress will be:

### **Aquatic Living Resources, Conservation and Oceanography in an Era of Change**

The official language of the congress is English.

Papers have been peer reviewed by two (2) reviewers and only those accepted by the Scientific Committee will be presented. The oral presentations must be less than **15 minutes**.

An **e-Poster Session** will be included in the Congress. Scientific Committee reserves the right to re-assign submission to a different type of presentation (from oral to poster, and vice - versa).

Proceedings will be available to delegates in digital or web-based format.

For more information:

[www.hydromedit.gr](http://www.hydromedit.gr)

[hydromedit@artion.com.gr](mailto:hydromedit@artion.com.gr)



## Fields of Interest

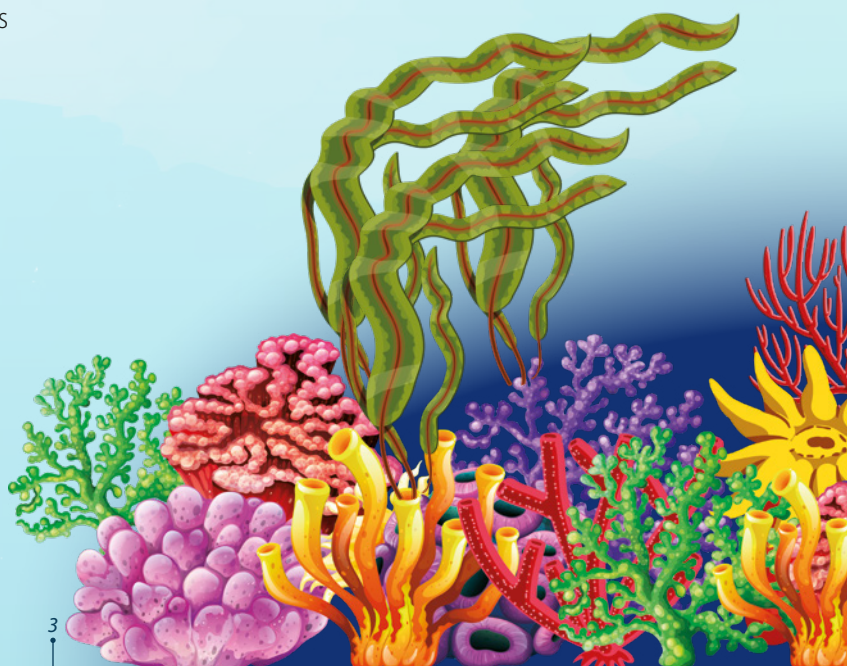
General fields of interest include - but not limited to - the following:

### **Field 1<sup>st</sup>: Aquaculture**

- Innovative Biotechnological Applications and Products
- Physiology, Nutrition and Welfare
- New Species, Farming Methods and Techniques
- Diseases of Aquatic Animals
- Sustainable and Organic Aquaculture

### **Field 2<sup>nd</sup>: Fisheries**

- Fisheries Policy and Sustainable Management
- Innovative Fisheries Technology
- Marine Fisheries Resources
- Species Biology and Ecology





## Field 3<sup>rd</sup>: Oceanography

- Physics and Climate of the Ocean
- Marine Biogeochemistry
- Marine Geosciences
- Marine Microbiology and Biotechnology

## Field 4<sup>th</sup>: Marine Diversity and Conservation

- Ecology, Biogeography and Diversity
- Invasive Species Biology
- Evolutionary Ecology and Genetics of Marine Organisms
- Marine Conservation Planning
- Marine Protected Areas and Blue Economy

## Field 5<sup>th</sup>: Inland Aquatic Ecology and Resources

- Ecology, Hydrology and Limnology
- Wetlands and Aquatic Systems Management
- Modelling and Monitoring of Aquatic Ecosystems



## Field 6<sup>th</sup>: Processing of Aquatic Products

- Processing of Products and Quality
- Product Control & Microorganisms Risk Assessment
- Hygiene of Products and Consumer's Safety
- Product Authentication and Certification

## Field 7<sup>th</sup>: Economics and Marketing of Fisheries and Aquatic Products

- Fisheries Socio-Economics
- Fisheries and Aquatic Products Marketing
- Competitiveness of Fisheries Products
- Financial Sustainability of Sector Enterprises

## Field 8<sup>th</sup>: Environmental Management and Education

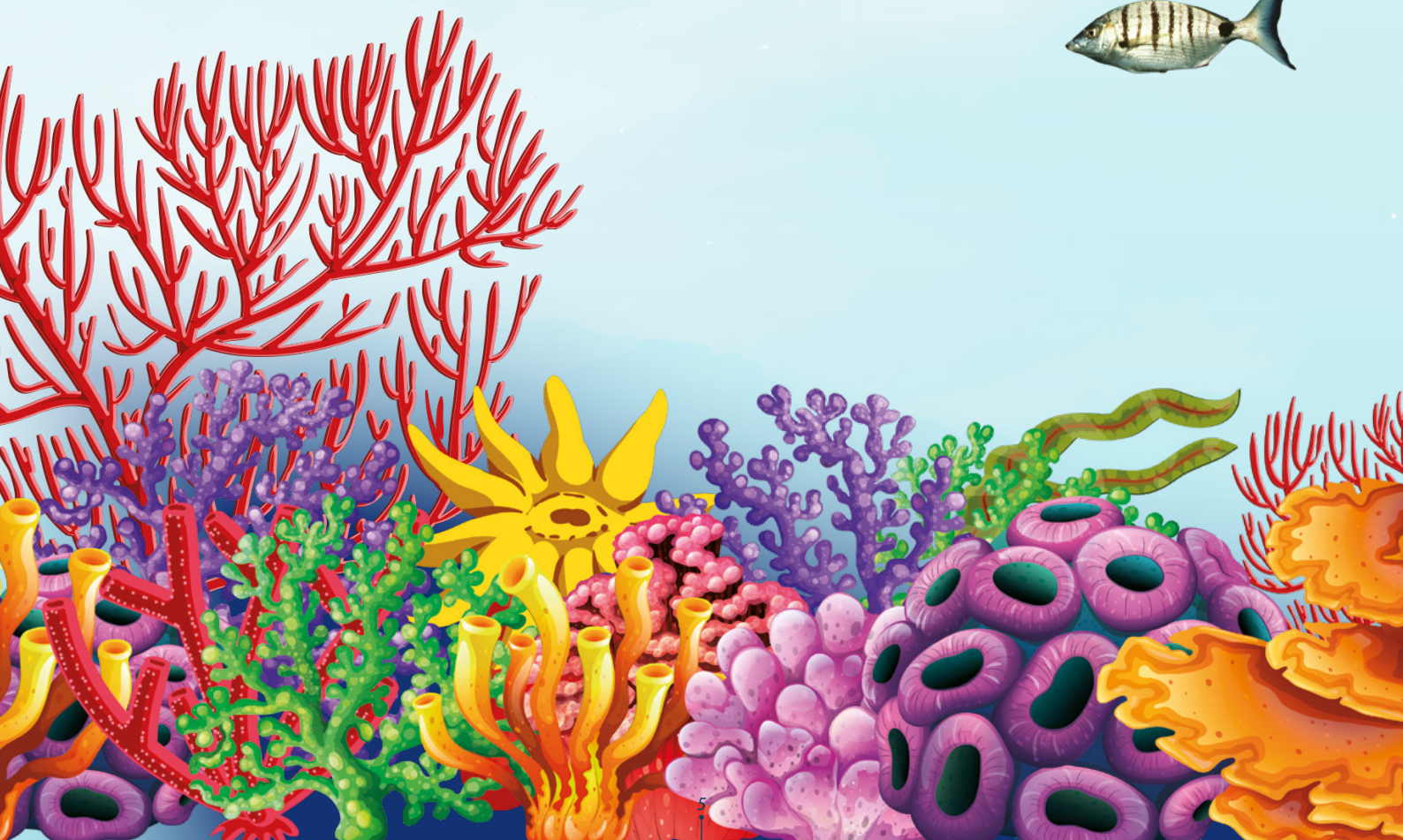
- Integrated Coastal Zone Management
- Sustainable water resources management
- Monitoring Ecosystem Health
- Environmental Management Systems
- Citizen Science
- Marine Literacy





## Awards

The organisers will honour for their excellence and their invaluable contribution in the sectors covered by our Congress, an Academic, a Professional, and a Company.





## Local Organising Committee (LOC)

Assoc. Prof. Vasilios Bakopoulos

Assoc. Prof. Maria Adamantia Efstratiou

Assist. Prof. Natassa Nikolaou

Assoc. Prof. Ourania Tzoraki

Dr Michalis Paspatis

Dr Dimitra Maragoudaki

Niki Alexiou

Maria Sava



## Organising Committee (OC)

Prof. Drosos Koutsoubas, DMS (Chairman)

Assist. Prof. Ioannis Batjakas, DMS

Assoc. Prof. Panagiotis Berrilis, DIAE

Dr Michael Chatziefstathiou, PASTI

Assist. Prof. George Gkafas, DIAE

Prof. George Katselis, DAPFA

Assist. Prof. Dimitris Klaoudatos, DIAE

Assoc. Prof. Dimitrios Moutopoulos, DAPFA

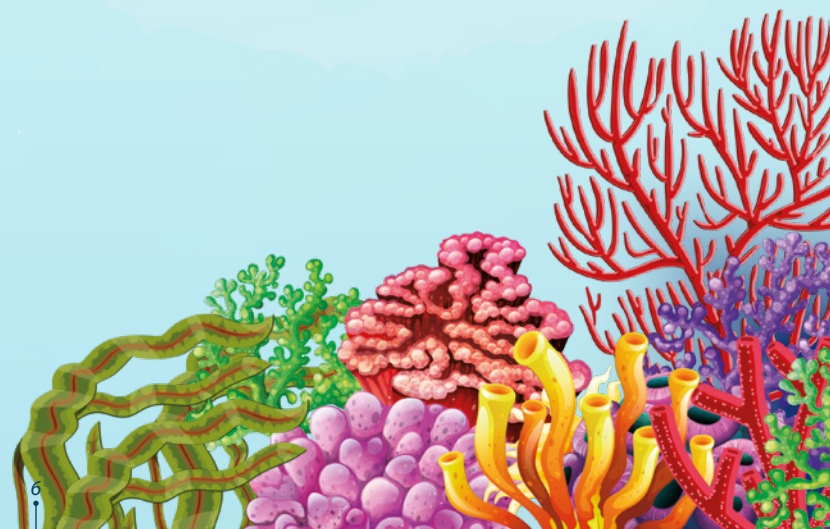
Assist. Prof. Constantinos Poulos, DAPFA

Prof. George Tsirtsis, DMS

Dr Maria-Miranda Tsoumani, PASTI

Dr Nikolaos Vlahos, DAPFA

Prof. Vasilios Zervakis, DMS





## Scientific Committee

Yannis Androulidakis, Aristotle University of Thessaloniki, Greece

Apostolos Apostolou, Bulgarian Academy of Science, Bulgaria

Gholamhassan Asadi, Islamic Azad University, Iran

Georgia Assimakopoulou, Hellenic Center of Marine Research, Greece

Vasileios Bakopoulos, University of the Aegean, Greece

Ioannis Batjakas, University of the Aegean, Greece

Vlasoula Bekiari University of Patras, Greece

Panagiotis Berillis, University of Thessaly, Greece

Ioannis S. Boziaris, University of Thessaly, Greece

Michael Chatziefstathiou, Panhellenic Society of Technologists Ichthyologists (PASTI), Greece

Yannis Cladas, University of Patras, Greece

Thanos Dailianis, Hellenic Center of Marine Research, Greece

Sofoclis Dritsas, University of Thessaly, Greece

Zorka Dulic, University of Belgrade, Serbia

Athanasios Exadactylos, University of Thessaly, Greece

Nikolaos Fourniotis, University the Peloponnese, Greece

Anastasia Gargavouzi, Ministry of Education and Religious Affairs, Greece

Ana Gavrilovic, University of Dubrovnik, Croatia

Vasilis Gerovasileiou, Ionian University, Greece

Ioannis Giovos, University of Patras, Greece

Georgios Gkafas, University of Thessaly, Greece

Eleni Golomazou, University of Thessaly, Greece

Guzel Yucel Gier, Dokuz Eylul University, Turkey

Thomas Hasiotis, University of the Aegean, Greece

Ebrahim Hosseini Seyed, Islamic Azad University, Iran

Myrsini Kakagianni, University of Thessaly, Greece

Grigoris Kanlis, University of Patras, Greece

Paraskevi Karachle, Hellenic Center of Marine Research, Greece

Ioannis Karapanagiotidis, University of Thessaly, Greece

Aikaterini Karditsa, National & Kapodistrian University of Athens, Greece





Stelios Katsanevakis, University of the Aegean, Greece  
George Katselis, University of Patras, Greece  
Konstantinos Katsoulis, University of Thessaly, Greece  
Dimitris Klaoudatos, University of Thessaly, Greece  
Drosos Koutsoubas, University of Aegean, Greece  
Eva Krasakopoulou, University of the Aegean, Greece  
Panagiotis Logothetis, University of Patras, Greece  
Manolis Malandrakis, Agricultural University of Athens, Greece  
Steriani Matsiori, University of Thessaly, Greece  
Elena Mente, University of Thessaly, Greece  
Eleni Miliou, Agricultural University of Athens, Greece  
Dimitrios K. Moutopoulos, University of Patras, Greece  
Cosmas Nathanailides, University of Ioannina, Greece  
Nikos Neofitou, University of Thessaly, Greece  
Sotiris Orfanidis, Hellenic Agricultural Organization- Demeter, Greece  
Panagiota Panagiotaki, University of Thessaly, Greece  
Konstantinos Parinos, Hellenic Center of Marine Research, Greece  
Foteini Parlapani, University of Thessaly, Greece  
Costas Perdikaris, Department of Fisheries, Regional Unit of Thesprotia, Region of Epirus, Greece  
Olga Petriki, Hellenic Centre of Marine Research, Greece  
Andreana Pexara, University of Thessaly, Greece  
Vesna Poleksic, University of Belgrade, Serbia  
Constantinos Poulos, University of Patras, Greece  
Aristides Prospathopoulos, Hellenic Center of Marine Research, Greece  
Aris Psilovikos, University of Thessaly, Greece  
Konstantina Ragazou, University of Thessaly, Greece  
Alexis Ramfos, University of Patras, Greece  
George Rigos, Hellenic Center of Marine Research, Greece  
Konstantinos Skordas, University of Thessaly, Greece  
Nikolaos Solomakos, University of Thessaly, Greece  
Ioannis Spilanis, University of the Aegean, Greece  
Aspasia Sterioti, Hellenic Center of Marine Research, Greece  
Dimitra Toubanaki, Hellenic Pasteur Institute, Greece







Elina Tragou, University of the Aegean, Greece

Vasilis Trygonis, University of the Aegean, Greece

Kostas Tsiamis, Hellenic Center of Marine Research, Greece

George Tsirtsis, University of the Aegean, Greece

Miranda Tsoumani, Panhellenic Society of Technologists Ichthyologists (PASTI), Greece

Ioannis Tzovenis, Microphykos, Greece

Constantin Vamvakas, University of Ghent, Belgium

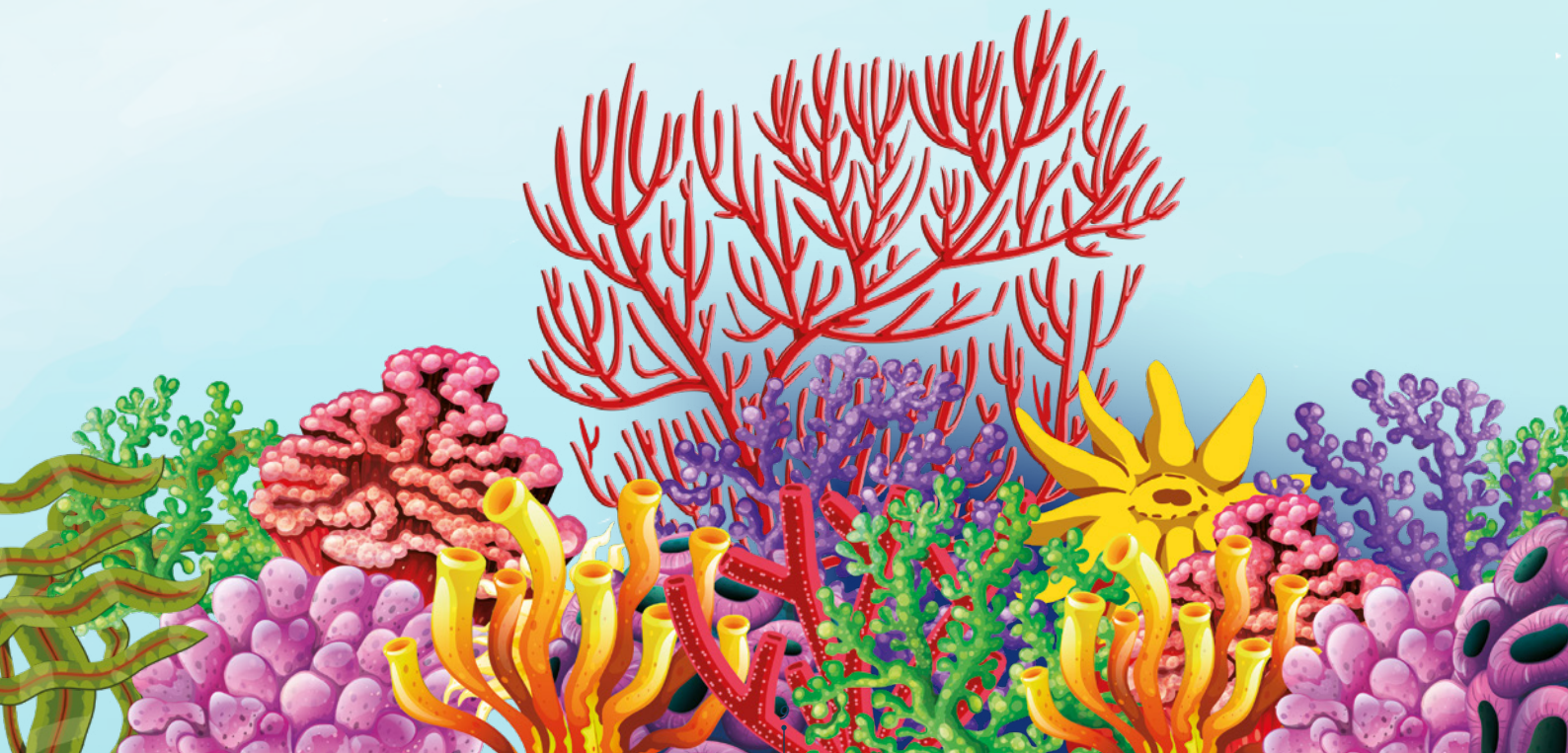
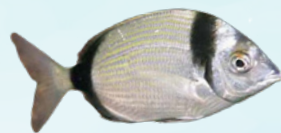
Kosmas Vidalis, University of Patras, Greece

Nikolaos Vlahos, University of Patras, Greece

Argyro Zenetos, Hellenic Center of Marine Research, Greece

Vassilis Zervakis, University of the Aegean, Greece

Tania Zervoudaki, Hellenic Center of Marine Research, Greece



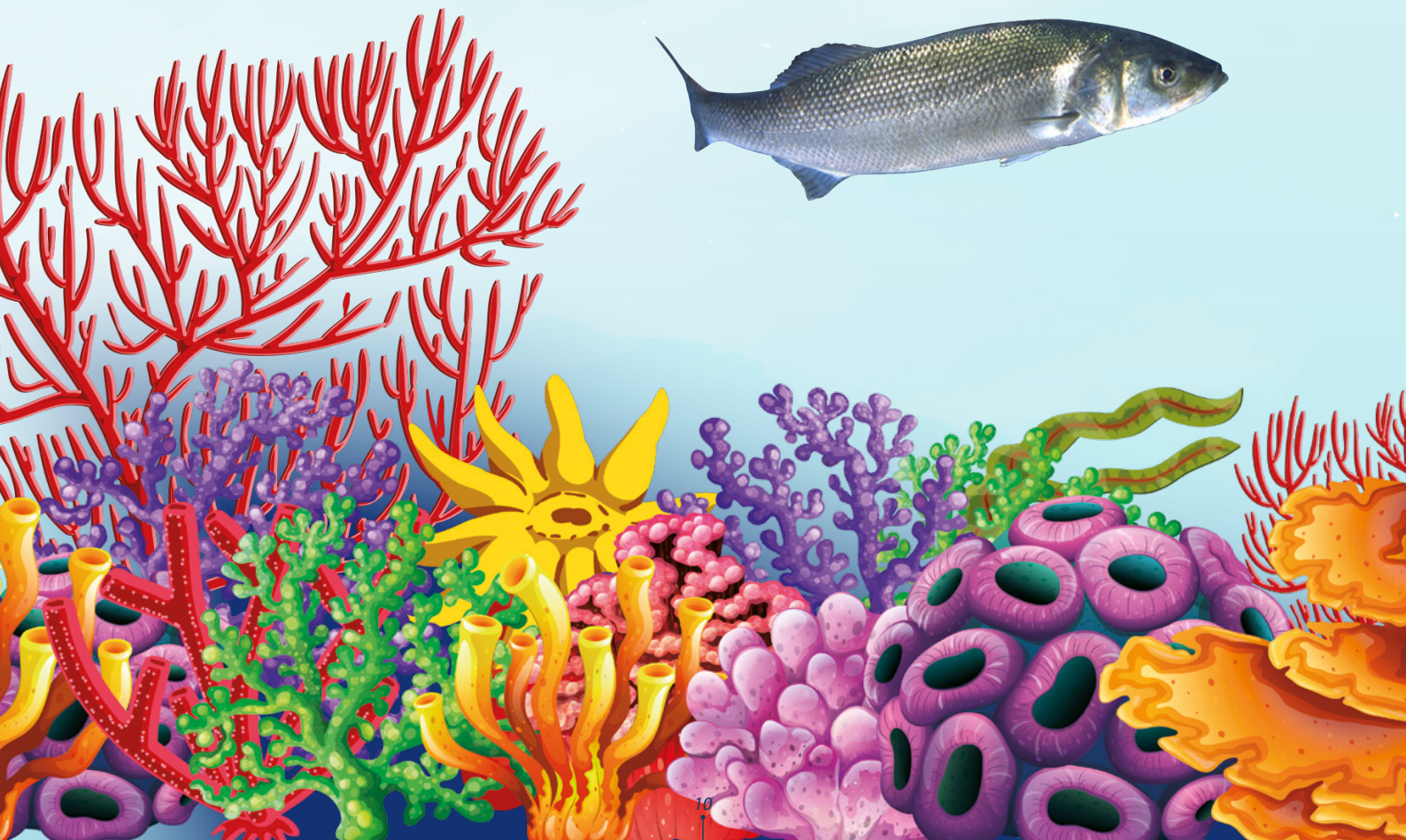


## Keynote Speaker



### Professor Alberto Basset

Alberto Basset is full Professor of Ecology and Pro-Rector for Sustainability at the University of Salento and Director of the Lecce seat of the Research Institute on Terrestrial Ecosystems of the National Research Council. He is member of the Executive Board of LifeWatch ERIC, the European eScience Infrastructure for Biodiversity and Ecosystem Research, being also Italian representative in the General Assembly, member of the EMSO ERIC Advisory Committee and of the National Scientific Committee for the Antarctic; he has been member of the Advisory Board of many international initiatives and Projects. His main research interests are in biodiversity organization and ecosystem functioning and services, with a focus on transitional waters and other types of aquatic ecosystems, being author of more than 150 papers in ecological journals on these topics. In the European research community, he is member of the Council and former President of the European Ecological Federation, current President of the Euro-Mediterranean Federation, former President and member of the Board of the Italian Society of Ecology. He is currently serving as Associate Editor of *Frontiers in Marine Ecosystem Ecology* and Board member of other international scientific journals.





## Invited Speakers



### **Dr Graham John Pierce**

Graham John Pierce is a Professor in School of Biological Sciences, University of Aberdeen (presently an honorary position) and Scientific Investigator of Fisheries Instituto de Investigaciones Marinas (Consejo Superior de Investigaciones Científicas). He is/has been Co-chair in the ICES Working Group on Cephalopod Fisheries and Life History (2017-2022), and in the ICES Working Group on Marine Mammal Ecology (2015-2017), as well as President of the Cephalopod International Advisory Council (CIAC/2009-2012). He has co-ordinated several EU-funded collaborative Projects including “CetAMBICion” (research on Cetacean bycatch, 14 institutions, 2021-2023), “ECOSUMMER” Marie Curie Training Site (research training network for “early stage researchers”, comprising 8 EU Institutions, 2006-09); “CEPHSTOCK” Concerted Action (network, 21 institutions, 2002-05, on Cephalopod biology and fisheries); “BIOCET” Research project (7 institutions, on contaminant bioaccumulation in Cetaceans, 2001-05). He has also participated in numerous European collaborative Projects since 1990, including the recent PARASITE (PARasite Risk ASsessment with Integrated Tools in EU Fish production value chains, 2013-2015 and MISTICSEAS III (on the implementation of the Marine Strategy Framework Directive in Macaronesia, 2019-2021). His main research interests focus mainly in marine biology and ecology, conservation and fisheries, including assessment, management and governance options for sustainable use of living marine resources, particularly in relation to Cephalopods and Cetaceans. Recent work includes statistical modelling of life history parameters, distribution and abundance of fish, cephalopods, marine mammals, and nematodes, development of niche models, prediction of climate change effects and applications to indicators for the Marine Strategy Framework Directive. He has been author of more than 290 papers in peer-reviewed scientific journals, co-editor in several books, and has presented or contributed to more than 460 conference talks and posters in these topics.



### **Dr Paolo Guidetti**

Paolo Guidetti has a university degree in Biological Sciences at the University of Genoa (Italy) and a PhD in ‘Fundamental Ecology’ at the University of Lecce (Italy). Presently is a Research Director at the Stazione Zoologica Anton Dohrn-National Institute of Marine Biology, Ecology and Biotechnology. Formerly he has been full Professor of Ecology at the University Côte d’Azur (UCA, Nice, France; 2012-2020), Director of the ECOSEAS laboratory (UMR 3729) – CNRS-UCA (2016-2020), a Researcher in Zoology at the University of Salento (Italy; 2007-2012) and a visiting scientist in 2003 and 2004 at the Scripps Institution of Oceanography (UC San Diego, USA). His main research interests focus mainly on Marine Conservation, Marine Protected Areas, Fish Ecology and small-scale Fisheries Management. He has been Principal Investigator or WP Leader within more than 50 National and International Projects funded by public and private bodies: EU, Italian Ministries and Agencies, MPAs, Foundations, Private Companies. Professor Guidetti has been author of more than 150 papers in ISI peer-reviewed scientific journals (including ‘Nature’ and ‘Science’).



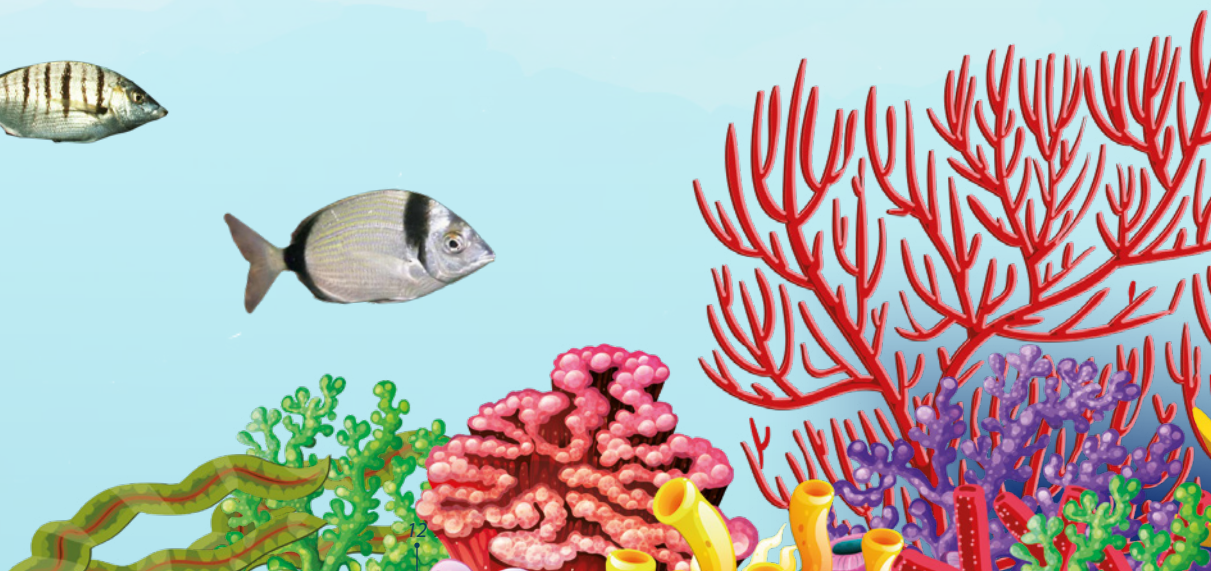
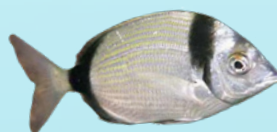
### Professor Samuel Martin

Samuel Martin is a Professor in the School of Biological Sciences, University of Aberdeen and director of the Scottish Fish Immunology Research Centre (SFIRC) at the University of Aberdeen. His research group examines aspects of fish health, immunology and nutrition that is directly relevant to aquaculture industry. He is Co-I on the UKRI funded Aquaculture Research Collaborative Hub –UK, that is identifying priority areas for future research for both finfish and shell-fish aquaculture. Professor Martin's lab has been at the forefront of molecular biological approaches for the analysis of health and nutrition in both Atlantic Salmon and Rainbow Trout, with an emphasis on identifying differentially expressed genes related to immune function. The lab group uses a variety of genomics approaches to address key traits relating to improving the performance of fish in culture and has funding from UKRI, EU, SAIC and a number of industrial funded Projects. Professor Martin has been the author of more than 120 papers in peer-reviewed scientific journals and several chapter books in aquaculture topics.



### Dr. Joaquim Garrabou

Joaquim Garrabou is a Marine Conservation Ecologist. He holds a PhD in Biology from the University of Barcelona (Spain). He is a Senior Researcher at the Institute of Marine Sciences-CSIC in Barcelona (Spain) and the co-ordinator of the Marine Biodiversity Conservation Group MedRecover ([www.medrecover.org](http://www.medrecover.org)). The ultimate objective of his research is to enhance science based management strategies to inform adaptation plans of coastal areas as well as the sustainable use of marine resources. He is particularly interested in promoting the role of Marine Protected Areas as nature based solution face to climate change. In this framework he is the coordinator the T-MEDNet network ([www.t-mednet.org](http://www.t-mednet.org)) devoted to track climate change impacts in the Mediterranean and the Marine Citizen Science platform Observadores del Mar ([www.observadoresdelmar.es](http://www.observadoresdelmar.es)). He has been the author of more than 110 papers in peer review ecological journals on these topics.





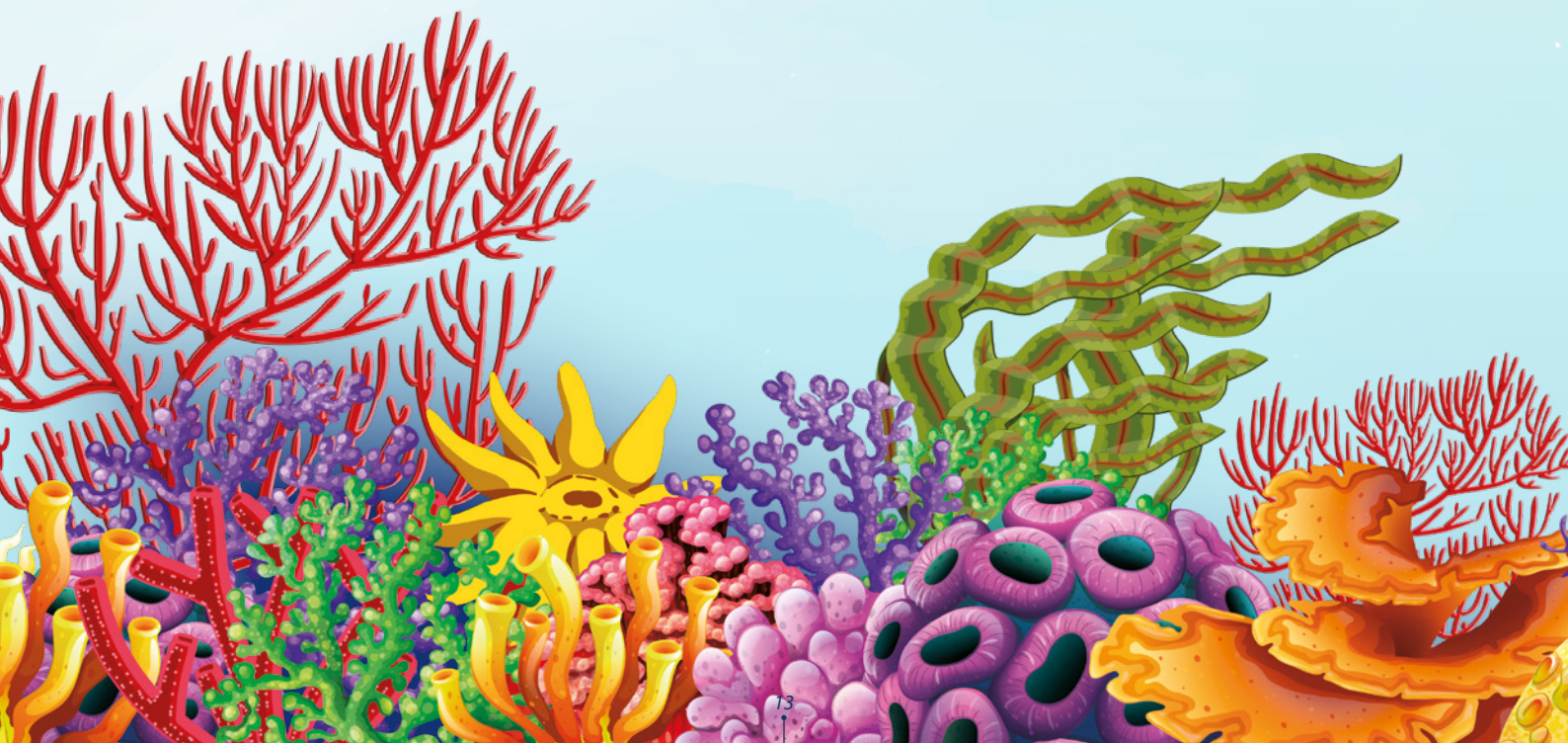
## Journals



1. **“PeerJ Life & Environment** is a highly respected Open Access journal publishing research in the biological, medical and environmental sciences. Any submission to the HydroMediT 2021 collection would undergo peer-review at the journal (i.e. acceptance by the congress does not guarantee acceptance by the journal) and would be subject to their normal publication fees if accepted (see <https://peerj.com/pricing/>).“
2. **Aquaculture International** (Journal of the European Aquaculture Society) <https://www.springer.com/journal/10499>
3. **MDPI**. Special issue “Selected papers from HydroMediT 2021: Applied Ichthyology, Oceanography and Aquatic Environment”. Joint special issue of Conservation (<https://www.mdpi.com/journal/conservation>) and Sustainability (<https://www.mdpi.com/journal/sustainability>).

Instructions to submit an article for peer review:

- 1) Head to <https://peerj.com/new/>
- 2) Under “Select Journal” choose “Life, Biological, Environmental and Health Sciences”
- 3) Follow the instructions on the submission form
- 4) In the Confidential Notes for PeerJ Staff box towards the end of the submission form, please include **“Submitted to the HydroMediT 2021 Collection”**





## Programme Overview

### Thursday, 4 November 2021

#### HALL 1 - < Mytilene >

10:00 - 12:00	<b>Oral Session</b> 1 <sup>st</sup> Field, Aquaculture
12:00 - 12:30	Coffee Break
12:30 - 13:15	<b>Keynote Speech - 1</b> Dr Paolo Guidetti - Stazione Zoologica Anton Dohrn ITALY
13:15 - 14:00	<b>Oral Session</b> 1 <sup>st</sup> Field, Aquaculture
14:00 - 15:00	Lunch Break
15:00 - 17:00	<b>Oral Session</b> 1 <sup>st</sup> Field, Aquaculture
17:00 - 17:30	Coffee Break
17:30 - 18:30	<b>Oral Session</b> 8 <sup>th</sup> Field, Environmental Management and Education

#### HALL 2 - < Volos >

10:00 - 12:00	<b>Oral Session</b> 4 <sup>th</sup> Field, Marine Diversity & Conservation
13:15 - 14:00	<b>Oral Session</b> 4 <sup>th</sup> Field, Marine Diversity & Conservation
15:00 - 17:00	<b>Oral Session</b> 2 <sup>nd</sup> Field, Fisheries
17:30 - 18:30	<b>Oral Session</b> 4 <sup>th</sup> Field, Marine Diversity & Conservation

#### HALL 3 - < Messolonghi >

10:00 - 12:00	<b>Oral Session</b> 5 <sup>th</sup> Field, Inland Aquatic Ecology & Resources
13:15 - 14:00	<b>Poster Session</b> 5 <sup>th</sup> Field, Inland Aquatic Ecology and Resources
15:00 - 17:00	<b>Oral Session</b> 3 <sup>rd</sup> Field, Oceanography
17:30 - 18:30	<b>Oral Session</b> 3 <sup>rd</sup> Field, Oceanography

#### HALL 1 - < Mytilene >

18:30 - 19:30	<b>Opening Ceremony</b> Awards
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## Friday, 5 November 2021

### HALL 1 - < Mytilene >

**10:00 - 12:00** Oral Session  
1<sup>st</sup> Field, Aquaculture

**12:00 - 12:30** Coffee Break

**12:30 - 14:00** Oral Session  
1<sup>st</sup> Field, Aquaculture

**14:00 - 15:00** Lunch Break

**15:00 - 15:45** Keynote Speech - 2  
Dr Graham John Pierce - Institute of Marine Sciences  
SPAIN

**15:45 - 17:00** Oral Session  
8<sup>th</sup> Field, Environmental Management and  
Education

**17:00 - 17:30** Coffee Break

**17:30 - 18:30** Poster Session  
8<sup>th</sup> Field, Environmental Management and  
Education

### HALL 1 - < Mytilene >

**18:30 - 19:30** Congress Keynote Speech  
Professor Alberto Basset, University of Salento  
ITALY

### HALL 2 - < Volos >

**10:00 - 12:00** Oral Session  
6<sup>th</sup> Field, Processing of Aquatic Products  
7<sup>th</sup> Field, Economics & Marketing of Fisheries  
Products

**12:30 - 13:15** Oral Session  
6<sup>th</sup> Field, Processing of Aquatic Products  
7<sup>th</sup> Field, Economics & Marketing of Fisheries  
Products

**13:15 - 14:00** Poster Session  
6<sup>th</sup> Field, Processing of Aquatic Products  
7<sup>th</sup> Field, Economics & Marketing of Fisheries  
Products

**15:45 - 17:00** Poster Session  
2<sup>nd</sup> Field, Fisheries

**17:30 - 18:30** Poster Session  
3<sup>rd</sup> Field, Oceanography

### HALL 3 - < Messolonghi >

**10:00 - 12:00** Oral Session  
8<sup>th</sup> Field, Environmental Management and  
Education

**13:15 - 14:00** Poster Session  
8<sup>th</sup> Field, Environmental Management and  
Education

**15:45 - 17:00** Poster Session  
1<sup>st</sup> Field, Aquaculture



## Saturday, 6 November 2021

### HALL 1 - < Mytilene >

10:00 - 12:00	<b>Oral Session</b> 1 <sup>st</sup> Field, Aquaculture
12:00 - 12:30	Coffee Break
12:30 - 13:15	<b>Keynote Speech - 3</b> Professor Samuel Martin - University of Aberdeen UNITED KINGDOM
13:15 - 14:00	<b>Oral Session</b> 1 <sup>st</sup> Field, Aquaculture
14:00 - 15:00	Lunch Break
15:00 - 15:45	<b>Keynote Speech - 4</b> Dr. Joaquim Garrabou - Institute of Marine Sciences SPAIN
15:45 - 17:00	<b>Poster Session</b> 8 <sup>th</sup> Field, Environmental Management and Education

### HALL 2 - < Volos >

10:00 - 12:00	<b>Poster Session</b> 4 <sup>th</sup> Field, Marine Diversity & Conservation
13:15 - 14:00	<b>Oral Session</b> 3 <sup>rd</sup> Field, Oceanography
15:45 - 17:00	<b>Poster Session</b> 1 <sup>st</sup> Field, Aquaculture

### HALL 1 - < Mytilene >

17:00 - 17:30	Closing Ceremony
17:30 - 18:30	Panhellenic Society of Technologists Ichthyologists (PASTI) General Assembly (Statutory)





## Programme

## Thursday, 4 November 2021

## HALL 1 - &lt; Mytilene &gt;

10:00 - 12:00	<b>Oral Session</b> <b>1<sup>st</sup> Field, Aquaculture</b> <b>Chairs:</b> Panagiota Panagiotaki, Vasilios Bakopoulos
10:00 - 10:15	<b>GROWTH PERFORMANCE OF SEABASS (<i>Dicentrarchus labrax</i>) AND ROCKET PLANT (<i>Eruca sativa</i>) IN A BRACKISH AQUAPONICS SYSTEM USING THE NUTRIENT FILM TECHNIQUE (NFT)</b> Vlahos N., Ioannidis J., Devetzoglou K., Hotos G., Vidalis K., Mente E.
10:15 - 10:30	<b>EVALUATION OF THREE MICROALGAE SPECIES FOR USE IN AQUAFEED</b> Pappou S., Papadaki S., Batzakas I., Krokida M.
10:30 - 10:45	<b>SEASONAL GENE EXPRESSION OF ANTIOXIDANT ENZYMES AND HSP70 IN GILTHEAD SEA BREAM (<i>Sparus aurata</i>)</b> Bellou E., Makri V., Giantsis I.A., Feidantsis K., Michaelidis B., Exadactylos A.
10:45 - 11:00	<b>SEASONAL CHANGES ON ANTIOXIDANT ENZYMES' GENE EXPRESSION IN RED PORGY (<i>Pagrus pagrus</i>).</b> Makri V., Feidantsis K., Giantsis I.A., Michaelidis B.
11:00 - 11:15	<b>HISTOPATHOLOGICAL AND HEMATOLOGICAL EXAMINATION OF FISH AFTER TREATMENT WITH NITROFURAZONE</b> Andreopoulou, S., Berillis, P., Michail, G., Vlahos, N.
11:15 - 11:30	<b>THE IMPACT OF FEEDING FREQUENCY ON THE GUT MICROBIOTA OF FRESHWATER ADAPTED SEABASS (<i>Dicentrarchus labrax</i>) IN A COUPLED AQUAPONICS SYSTEM WITH LETTUCE (<i>Lactuca sativa</i>)</b> Nikouli E., Stathopoulou P., Berillis P., Vlachos N., Mente E., Kormas K.

## HALL 2 - &lt; Volos &gt;

10:00 - 12:00	<b>Oral Session</b> <b>4<sup>th</sup> Field, Marine Diversity &amp; Conservation</b> <b>Chairs:</b> Stelios Katsanevakis, Georgios Gkafas
10:00 - 10:15	<b>HUMAN DISTURBANCE ALTERS TERRITORIAL BEHAVIOR OF THE GHOST CRAB <i>Ocypode cursor</i> (Linnaeus, 1758)</b> Gül M.R.
10:15 - 10:30	<b>MOLECULAR IDENTIFICATION OF A PARASITIC NEMATODE FOUND IN THE DIGESTIVE SYSTEM OF A STRANDED MEDITERRANEAN MONK SEAL (<i>Monachus monachus</i>) IN THE AREA OF PAGASITIKOS GULF</b> Koitsanou E., Sarantopoulou J., Komnenou A., Exadactylos A., Dendrinou P., Gkafas G.A.
10:30 - 10:45	<b>DENSITY AND RECRUITMENT OF A NEW INVASIVE SPECIES FOR THE TURKISH COAST OF THE BLACK SEA</b> Aydın M., Gül M.R.
10:45 - 11:00	<b>ASSESSMENT OF INVASIVENESS POTENTIAL OF <i>Synaptula reciprocans</i> (ECHINODERMATA: SYNAPTIDAE) BY THE AQUATIC SPECIES INVASIVENESS SCREENING KIT</b> Çiftçiöğlü M., Filiz H.
11:00 - 11:15	<b>OCCUPANCY ESTIMATION OF ALIEN, CRYPTOGENIC, AND NEONATIVE SPECIES IN PELOPONNESE (GREECE)</b> Katsanevakis S.
11:15 - 11:30	<b>THE EFFECTS OF ABIOTIC FACTORS ON THE ECONOMICALLY IMPORTANT BROWN SEAWEED <i>Dictyopterus polypodioides</i> PHYSIOLOGICAL PERFORMANCE</b> Nakou K., Malea L., Seitidou O., Lachanidou G., Papadimitriou A., Orfanidis S.

## HALL 3 - &lt; Messolonghi &gt;

10:00 - 12:00	<b>Oral Session</b> <b>5<sup>th</sup> Field, Inland Aquatic Ecology &amp; Resources</b> <b>Chairs:</b> Olga Petriki, Ourania Tzoraki
10:00 - 10:15	<b>NUMERICAL SIMULATION OF HYDRODYNAMIC PARAMETERS OVER RIVER CONTROL STRUCTURES</b> Farsirotou E., Xafoulis N.
10:15 - 10:30	<b>RIVER INTEGRITY ASSESSMENT BASED ON HABITAT QUALITY AND THE MACROINVERTEBRATE COMMUNITY</b> Atanacković A., Zorić K., Tubić B., Tomović J., Djikanović V.
10:30 - 10:45	<b>IMPLEMENTING MULTIPLE MANAGERIAL AND ENVIRONMENTAL SCENARIOS IN A MEDITERRANEAN LAKE</b> Petriki O., Tsagarakis K., Moutopoulos D.K., Stoumboudi M.
10:45 - 11:00	<b>HYDROLOGICAL, ENVIRONMENTAL AND TAXONOMICAL HETEROGENEITY DURING THE TRANSITION FROM DRYING TO FLOWING CONDITIONS IN A MEDITERRANEAN INTERMITTENT RIVER</b> Banegas-Medina A., Montes I.Y., Tzoraki O., Brendonck L., Pinçel T., Diaz G., Arriagada P., Arumi J.L., Figueroa R.

12:00 - 12:30 Break



12:30 - 13:15	<b>Keynote Speech - 1</b> <b>THE NEED TO HAVE MORE 'STRICTLY &amp; SERIOUSLY' MARINE PROTECTED AREAS IN THE MEDITERRANEAN SEA</b> <i>Dr Paolo Guidetti - Stazione Zoologica Anton Dohrn</i> <b>ITALY</b> <b>Chair:</b> <i>Drosos Koutsoubas, Stelios Katsanevakis</i>				
13:15 - 14:00	<b>Oral Session</b> <b>1<sup>st</sup> Field, Aquaculture</b> <b>Chairs:</b> <i>Athanasios Exadactylos, Yannis Cladas</i>	13:15 - 14:00	<b>Oral Session</b> <b>4<sup>th</sup> Field, Marine Diversity &amp; Conservation</b> <b>Chairs:</b> <i>Vasilios Trygonis, Sotiris Orfanidis</i>	13:15 - 14:00	<b>Poster Session</b> <b>5<sup>th</sup> Field, Inland Aquatic Ecology and Resources</b> <b>Chairs:</b> <i>Dimitrios Moutopoulos, Miranda Tsoumani</i>
13:15 - 13:30	<b>HISTORY OF THE INTRODUCTION OF THE NON-NATIVE SPECIES <i>Pagrus major</i> (TEMMINCK AND SCHLEGEL, 1843) IN GREEK AQUACULTURE</b> <i>Cladas Y., Ketsilis-Rinis V., Moutopoulos D.K., Spala K., Koutsikopoulos C.</i>	13:15 - 13:30	<b>LENGTH-WEIGHT RELATIONSHIP AND REPRODUCTION OF THE MARBLED ELECTRIC RAY, <i>Torpedo marmorata</i> (RISSO, 1810), FROM THE GREEK SEAS</b> <i>Karampetsis D., Chatzisprou A., Gubili C., Touloumis K., Kioulouris S., Anastasopoulou A., Koutsikopoulos C., Batjakas I. E.</i>	1	<b>USE OF HBV LIGHT MODEL TO SIMULATE INTERMITTENT RIVER OF KRASTIC GEOLOGY: THE CASE STUDY OF DRAGONJA RIVER, SLOVENIA</b> <i>Papasarafianou S., Tzoraki O., Rusjan S.</i>
13:30 - 13:45	<b>ELECTROSTUNNING HAS THE POTENTIAL TO DELAY FILLET DEGRADATION POST-HARVEST IN RED SEABREAM (<i>Pagrus major</i>)</b> <i>Angelakopoulos R., Dimitroglou A., Papaharisis L., Moutou K.A.</i>	13:30 - 13:45	<b>SPATIAL VARIATION OF THE VERTICAL DISTRIBUTION OF THE STATUS OF MACROALGAE COMMUNITIES, SEA URCHINS AND FISH POPULATIONS IN THE EASTERN MEDITERRANEAN</b> <i>Nikolaou A., Tsirintanis K., Katsanevakis S.</i>	2	<b>CAROTENOID PROFILE OF A HYPERSALINE <i>Dunaliella</i> sp. STRAIN CULTIVATED IN DIFFERENT CONDITIONS</b> <i>Ntzouvaras A., Chantzistroutsiou X., Papadaki S., Tzovenis I., Economou-Amilli A.</i>
13:45 - 14:00	<b>HETEROTROPHIC BATCH CULTIVATION OF <i>Chlorella sorokiniana</i> AND <i>Chlorella kessleri</i> USING GLYCEROL: BIOMASS &amp; LIPID PRODUCTIVITIES AND BIOMASS CARBON YIELD COEFFICIENTS</b> <i>Metsoviti M. N., Mpesios A., Kasiteropoulou D., Lamprakopoulos S., Gougoulas N., Papapolymerou G.</i>	13:45 - 14:00	<b><i>Pinna nobilis</i>, IN THE BRINK OF EXTINCTION IN GREEK SEAS</b> <i>Zotou M., Papadakis O., Ragkousis M., Issaris Y., Gerakaris V., Çinar M.E., Katsanevakis S.</i>	3	<b>FISHERIES TYPOLOGY OF <i>Pontastacus leptodactylus</i> (DANUBE CRAYFISH (ESCHSCHOLTZ, 1823)) IN THE DAM LAKE OF POLYFYTOS (WESTERN GREECE)</b> <i>Kafazi N., Katselis G., Moutopoulos D.K.</i>
14:00 - 15:00	Break				
				4	<b>SEX RATIO AND ALLOMETRIC RELATIONSHIPS OF THE WATER FROG (<i>Pelophylax epeiroticus</i>) IN LAKE PAM-VOTIDA (NORTHWEST GREECE)</b> <i>Hatziioannou M., Douska C., Klaoudatos D.</i>
				5	<b>VISUALIZATION TYPES OF VARIOUS AQUATIC PHASES OF INTERMITTENT STREAMS</b> <i>Stamataki M.D., Tzoraki O., Pnevmatikou Z., Papadopoulos V., Sauquet E.</i>
				6	<b>DEVELOPMENT OF PROTOCOLS FOR THE ENVIRONMENTAL MONITORING OF THE COASTAL AND TRANSITIONAL RIVER ECOSYSTEMS</b> <i>Stamataki M.D., Koutalakis P., Papadopoulos D., Tzoraki O.</i>
				7	<b>FATTY ACIDS QUANTIFICATION AND NUTRITIONAL QUALITY EVALUATION OF FRESHWATER FISH OF LAKE VOLVI</b> <i>Kokokiris L., Kyritsi S., Doulgeraki S., Terzidis M.</i>



<b>15:00 - 17:00</b>	<b>Oral Session</b> <b>1<sup>st</sup> Field, Aquaculture</b> <b>Chairs:</b> <i>Vasilios Bakopoulos, Panagiotis Berillis</i>	<b>15:00 - 17:00</b>	<b>Oral Session</b> <b>2<sup>nd</sup> Field, Fisheries</b> <b>Chairs:</b> <i>Dimitris Moutopoulos, Ioannis Batjakas</i>	<b>15:00 - 17:00</b>	<b>Oral Session</b> <b>3<sup>rd</sup> Field, Oceanography</b> <b>Chairs:</b> <i>Thomas Hasiotis, Gianis Androulidakis</i>
<b>15:00 - 15:15</b>	<b>REPRODUCTION AND BEHAVIOR OF RED HYBRID TILAPIA <i>Oreochromis mossambicus</i></b> <i>Kotsarinis S., Siapazis C., Vlachos N., Berillis P., Mente E.</i>	<b>15:00 - 15:15</b>	<b>LENGTH-WEIGHT RELATIONSHIPS AND NEW FISHERY DATA OF THE THREATENED EUROPEAN SPINY LOBSTER <i>Palinurus elephas</i> (J.C. FABRICIUS, 1787) FROM THE REMOTE PSARA-ANTIPSARA ISLANDS, NORTH-EAST AEGEAN SEA, GREECE.</b> <i>Kampouris T.E., Batjakas I.E.</i>	<b>15:00 - 15:15</b>	<b>RESTRICTED LAGOONS SUBJECTED TO DIFFERENTIAL TIDAL FORCING</b> <i>Horsch G.M., Fourniotis N.Th., Mastoris-Kourmpanis D.K.</i>
<b>15:15 - 15:30</b>	<b>FISHMEAL PROTEIN REPLACEMENT BY <i>Zophobas morio</i> LARVAE AFFECTS <i>Dicentrarchus labrax</i> GROWTH PERFORMANCE IN AN AQUAPONICS SYSTEM</b> <i>Stathopoulou P., Berillis P., Levizou E., Vlahos N., Katsoulas N., Rumbos, C., Mente, E.</i>	<b>15:15 - 15:30</b>	<b>AGE, GROWTH AND FEEDING HABITS OF THE BLACK GOBY, <i>Gobius niger</i>, IN CANDARLI BAY, AEGEAN SEA</b> <i>Filiz H., Çiftçiöğlü M.</i>	<b>15:15 - 15:30</b>	<b>METHODOLOGICAL CONSIDERATIONS IN MAPPING A HOSTILE SEACLIFF WITH TERRESTRIAL LASER SCANNER</b> <i>Panagou Th., Hasiotis T., Oikonomou E.</i>
<b>15:30 - 15:45</b>	<b>THE EFFECT OF TEMPERATURE AND INFECTION ROUTE ON <i>in vitro</i> HEMOCYTE PHAGOCYTOSIS ACTIVATION AFTER EXPERIMENTAL INFECTION OF COMMON OCTOPUS, <i>Octopus vulgaris</i> (CUVIER, 1797) WITH EITHER <i>Photobacterium damselae</i> subsp. <i>damselae</i> OR <i>Vibrio anguillarum</i> O1</b> <i>White D. M., Valsamidis M. A., Kokkoris G., Bakopoulos V.</i>	<b>15:30 - 15:45</b>	<b>ASSESSMENT OF DEMERSAL FISHERY RESOURCES IN PAGASITIKOS GULF (CENTRAL AEGEAN SEA)</b> <i>Klaoudatos D., Vafidis D., Exadactylos A., Neofitou N., Lolas A., Apostologamvrou C.</i>	<b>15:30 - 15:45</b>	<b>THE ACOUSTIC REPERTOIRE AND THE CHARACTERISTICS OF DOLPHIN WHISTLES IN GREECE</b> <i>Tourgeli Provata M., Boisseau O., Frantzis A., Alexiadou V., Trygonis V.</i>
<b>15:45 - 16:00</b>	<b>TRANSCRIPTOME COMPARISON OF RESISTANT AND SUSCEPTIBLE SEA BASS (<i>Dicentrarchus labrax</i>) CHALLENGED WITH NERVOUS NECROSIS VIRUS REVEALS A MARKED CONTRAST IN GENE EXPRESSION LEVELS IN A TIME-COURSE STUDY</b> <i>Toubanaki D.K., Tzortzatos O.P., Efstathiou A., Moulos P., Papaharis L., Bakopoulos V., Karagouni E.</i>	<b>15:45 - 16:00</b>	<b>EFFECTS OF ALIEN SPECIES ON THE SUSTAINABILITY OF SMALL-SCALE FISHERIES (A CASE STUDY IN THE ISLAND OF CRETE)</b> <i>Klaoudatos D., Samaras G., Exadactylos A., Vafidis D., Apostologamvrou C., Conides A.</i>	<b>15:45 - 16:00</b>	<b>OCEAN CIRCULATION EFFECTS ON EUTROPHICATION IN THERMAIKOS GULF</b> <i>Androulidakis Y., Kolovoyiannis V., Makris C., Krestenitis Y., Baltikas V., Stefanidou N., Chatziantoniou A., Topouzelis K., Mallios Z. Moustaka-Gouni M.</i>
<b>16:00 - 16:15</b>	<b>EFFECT OF MICRONUTRIENTS ON THE GROWTH RATES AND BIOMASS PRODUCTIVITIES OF <i>Microchloropsis gaditana</i></b> <i>Metsoviti M. N., Papapolymerou G.</i>	<b>16:00 - 16:15</b>	<b>BATHYMETRIC DISTRIBUTION OF THE FAMILY OCTOPODIDAE IN THE NORTH AEGEAN SEA, EASTERN MEDITERRANEAN</b> <i>Gitarakos G., Touloumis K., Koutsoubas D.</i>	<b>16:00 - 16:15</b>	<b>SEISMIC EVIDENCE OF FLUIDS IN THE SEDIMENTS OF THE SEMI-ENCLOSED GULF OF GERA (LESVOS, GREECE)</b> <i>Manoutsoglou E., Hasiotis T., Andreadis O., Velegrakis A.F.</i>
<b>16:15 - 16:30</b>	<b>HUMORAL IMMUNE RESPONSE OF SEA BASS (<i>Dicentrarchus labrax</i>) WITH NATURAL RESISTANCE TO THE RGNV GENOTYPE OF B-NODAVIRUS</b> <i>Bakopoulos V., Valsamidis M.A., White M.D., Papaharis L., Toubanaki D.K., Karagouni E.</i>			<b>16:15 - 16:30</b>	<b>INTERANNUAL VARIABILITY OF SEA SURFACE TEMPERATURE OVER THE NE MEDITERRANEAN SEA</b> <i>Androulidakis Y., Krestenitis Y.</i>
<b>17:00 - 17:30</b>	<b>Break</b>				



17:30 - 18:30	<b>Oral Session</b> <b>8<sup>th</sup> Field, Environmental Management and Education</b> <b>Chairs:</b> Michael Chatziefstathiou, Georgios Tsirtsis	17:30 - 18:30	<b>Oral Session</b> <b>4<sup>th</sup> Field, Marine Diversity &amp; Conservation</b> <b>Chairs:</b> Drosos Koutsoubas, Dimitris Vafidis	17:30 - 18:30	<b>Oral Session</b> <b>3<sup>rd</sup> Field, Oceanography</b> <b>Chairs:</b> Adonis Velegrakis, Elina Tragou
17:30 - 17:45	EVALUATION OF POTENTIAL PREVENTIVE MEASURES AGAINST SEAWATER INTRUSION IN NEA MOUDANIA AQUIFER, GREECE <i>Siarkos I., Katirtzidou M., Sevastas S., Tzoraki O.</i>	17:30 - 17:45	FUNCTIONAL TRAITS OF POLYCHAETES CHANGE BETWEEN DIFFERENT HABITAT TYPES OF <i>Posidonia oceanica</i> <i>Katsiaras N., Evagelopoulos A., Koutsoubas D.</i>	17:30 - 17:45	IMPLEMENTING A NUMERICAL MODEL FOR THE INVESTIGATION OF THE HYDRODYNAMICS OF SARONIKOS GULF (EASTERN MEDITERRANEAN) <i>Kolovoyiannis V., Krasakopoulou E., Zervakis V., Tragou E., Kontoyiannis H.</i>
17:45 - 18:00	SEASONAL OXIDATIVE AND CELLULAR STRESS RESPONSES OF COMMERCIALY IMPORTANT INVERTEBRATES AT DIFFERENT HABITATS OF THE NORTH AEGEAN SEA <i>Feidantsis K., Michaelidis B., Raitos D.E., Exadactylos A., Gkafas G.A., Staikou A., Hatzioannou M., Vafidis D.</i>	17:45 - 18:00	PRELIMINARY RESULTS ON THE EFFECT OF GROWTH IN THE SKELETAL ARCHITECTURE OF THE ECHINOID <i>Diadema setosum</i> . <i>Varkoulis A., Voulgaris K., Zaoutsos S., Vafidis D.</i>	17:45 - 18:00	PRIORITIZATION OF BEACH VULNERABILITY TO SEA LEVEL RISE: THE CASE OF SANTORINI, GREECE <i>Monioudi I.N., Markozanes F., Velegrakis A.F., Chatzipavlis A.E., Çulibrk A., Kontopyrakis K.E.</i>
18:00 - 18:15	MODELING SURFACE WATER QUALITY USING ARTIFICIAL NEURAL NETWORKS AND MULTIVARIATE METHODS <i>Sakaa B., Brahmia N.</i>	18:00 - 18:15	FRIENDLY AQUACULTURE; ARE FISH FARMS UNFAIRLY HELD RESPONSIBLE FOR DEATHS OF MEDITERRANEAN MONK SEAL? <i>Taskavak E., Ozel F.V.</i>	18:00 - 18:15	AUTOMATED 2-D SHORELINE AND WAVE RUN-UP DETECTIONS FROM HIGH FREQUENCY OPTICAL DATA. EXAMPLE FROM AN URBAN PERCHED BEACH: AMMOUDARA, HERAKLEION - CRETE. <i>Chatzipavlis A.E., Zamboukas V., Trygonis V., Velegrakis A.F.</i>
18:15 - 18:30	A COMPARATIVE STUDY OF IDENTIFICATION METHODS FOR BACTERIAL PATHOGENS ISOLATED FROM RAINBOW TROUT ( <i>O. mykiss</i> , W.) <i>Urku C., Secer F.S., Onalan S., Akayli T.</i>	18:15 - 18:30	THE USE OF THE mtDNA AS A MOLECULAR TOOL TOWARDS AUTHENTICITY OF THE RED PORGY <i>Pagrus pagrus</i> <i>Chatzoglou E., Tsaousi N., Triantaphyllidis G., Malandrakis E., Miliou H.</i>		

HALL 1 - &lt; Mytilene &gt;

18:30 - 19:30 **Opening Ceremony**  
**Awards**



# Friday, 5 November 2021

## HALL 1 - < Mytilene >

**10:00 - 12:00** **Oral Session**  
**1<sup>st</sup> Field, Aquaculture**  
Chairs: Nikos Vlahos, Cosmas Nathanailides

**10:00 - 10:15** **MUSCLE CELLULARITY AND PROXIMATE COMPOSITION OF FAST AND SLOW GROWING MARICULTURED MEAGRE, *Argyrosomus regius***  
Mitakos I., Kokokiris L., Bitchava, K., Barbouti A., Gouva L., Nathanailides C.

**10:15 - 10:30** **SPECIFIC IMMUNE RESPONSE OF SEA BASS (*Dicentrarchus labrax*) IMMUNIZED WITH VARIOUS ANTIGENS OF *Photobacterium damsela* subsp. *piscicida*, *Vibrio anguillarum* O1 and B-NODAVIRUS**  
Bakopoulos V., Valsamidis M.A., White M.D., Kokkoris G.D.

**10:30 - 10:45** **THE PROGRESS OF ECONOMIC PERFORMANCE OF SEABASS & SEABREAM AQUACULTURE PRODUCTION SYSTEMS IN GREECE**  
Danatskos C., Kokkinakis A.K.

**10:45 - 11:00** **HEMOLYMPH ACTIVITIES AFTER EXPERIMENTAL INFECTION OF COMMON OCTOPUS, *Octopus vulgaris* (CUVIER, 1797) WITH *Photobacterium damsela* subsp. *piscicida***  
White D. M., Valsamidis M.A., Bakopoulos V.

**11:00 - 11:15** **THE EFFECT OF SALINITY ON THE GROWTH PERFORMANCE AND SURVIVAL RATE OF GILT HEAD SEABREAM (*Sparus aurata*) AND ROCK SAMPHIRE (*Crithmum maritimum*) IN AN EXPERIMENTAL BRACKISH AQUAPONIC SYSTEM**  
Vlahos N., Stefanou Ch., Agapitos A., Berillis P., Levizou E., Krigas N., Kormas K., Mente E.

**11:15 - 11:30** **THE EFFECT OF DIFFERENT OZONE CONCENTRATIONS ON THE OXIDATION RATE OF AMMONIA AND NITRITE ION AT A SEAWATER AQUARIUM**  
Vlahos N., Kapetanios E., Mantzouranis I., Moshopoulos S., Bekiari V., Vidalis, K., Hotos G., Mente E.

**12:00 - 12:30** **Break**

## HALL 2 - < Volos >

**10:00 - 12:00** **Oral Session**  
**6<sup>th</sup> Field, Processing of Aquatic Products**  
**7<sup>th</sup> Field, Economics & Marketing of Fisheries Products**  
Chairs: Ioannis Boziaris, Foteini Parlapani

**10:00 - 10:15** **BIOCHEMICAL CHARACTERIZATION OF MARINE INVASIVE SPECIES *Lagocephalus sceleratus* (Gmelin, 1789), *Pterois miles* (Bennett, 1828) AND *Fistularia commersonii* (Rüpp, 1838) IN THE SOUTHERN AEGEAN**  
Pappou S., Tsirozoglou F., Papadaki S., Krokida M., Batzakas I.

**10:15 - 10:30** **ANTIOXIDANT BIOACTIVE PEPTIDES ENCRYPTED IN MARINE BIVALVE *Mytilus galloprovincialis* PROTEINS: *in silico* ANALYSIS**  
Vratsistas A., Vafidis D.

**10:30 - 10:45** **MICROBIAL SPOILAGE AND SHELF-LIFE OF ICE-STORED MEAGRE (*Argyrosomus regius*)**  
Syropoulou E., Parlapani F.F., Mallouchos A., Boziaris I.S.

**10:45 - 11:00** **"PROTECTION" UNDER THE SHADE: LACK OF LABELING LEGISLATION AND UMBRELLA TERMS ALLOW PROTECTED SPECIES IN BATOID WINGS FROM GREECE**  
Giagkazoglou Z., Griffiths A.M., Imsiridou A., Chatzisprou A., Touloumis K., Hebb J.L., Mylona D., Malamidou A. K., Apostolidi E.D., Batjakas I.E., Gubili C.

**11:00 - 11:15** **AMINO ACID COMPOSITION OF SEAWEEDS FROM ÇANAĞKALE, TURKEY**  
Çankırılıgil E.C., Ak İ.

**11:15 - 11:30** **ASSESSING CONSUMER ATTITUDES TOWARDS THE INVASIVE RAYED PEARL OYSTER *Pinctada imbricata radiata* (LEACH 1814)**  
Ziou A., Douligeri A., Theodorou J.A., Katselis G., Moutopoulos D.K.

## HALL 3 - < Messolonghi >

**10:00 - 12:00** **Oral Session**  
**8<sup>th</sup> Field, Environmental Management and Education**  
Chairs: Ourania Tzoraki, Georgios Tsirtsis

**10:00 - 10:15** **SPATIAL PRIORITIZATION FOR COASTAL MANAGEMENT BASED ON ERODIBILITY ASSESSMENT PAIRED WITH SOCIO-ECONOMIC ELEMENTS**  
Chalazas T., Chatzistratis D., Velegrakis A.F.

**10:15 - 10:30** **PRELIMINARY STUDY OF HEAVY METALS IN SEDIMENTS OF VOLOS HARBOR (THESSALY, GREECE)**  
Georgiou K., Gounaris S., Tsamili V., Neofitou N., Kelepertzis E., Kantiranis N., Skordas K., Vafidis D.

**10:30 - 10:45** **CLIMATE CHANGE IMPACT ASSESSMENT AND NATURE-BASED SOLUTIONS IN THE KALLONI RIVER BASIN, GREECE**  
Koutsovili E.I., Tzoraki O., Theodossiou N., Gaganis P.

**10:45 - 11:00** **ADAPTING A FRESHWATER FRAMEWORK TO A COASTAL CASE**  
Ćulibrk A., Tzoraki O.

**11:00 - 11:15** **SALMON MATURITY CLASSIFICATION BASED ON BAYESIAN NETWORKS AND SUPPORT VECTOR MACHINES METHODOLOGIES**  
Kokkinos K., Exadactylos A., Vafidis D.

**11:15 - 11:30** **USE OF FUZZY COGNITIVE MAPS AS A DECISION-MAKING TOOL TO FISHERIES MANAGEMENT**  
Kokkinos K., Exadactylos A., Vafidis D.



12:30 - 14:00	<b>Oral Session</b> <b>1<sup>st</sup> Field, Aquaculture</b> <b>Chairs: Eleni Golomazou, Constantinos Poulos</b>	12:30 - 13:15	<b>Oral Session</b> <b>6<sup>th</sup> Field, Processing of Aquatic Products</b> <b>7<sup>th</sup> Field, Economics &amp; Marketing of Fisheries Products</b> <b>Chairs: Steriani Matsiori, Sofoclis Dritsas</b>		
12:30 - 12:45	<b>ASSESSMENT OF GILTHEAD SEA BREAM (<i>SPARUS AURATA</i>) BIOMASS IN AQUACULTURE CAGES USING SPLIT-BEAM ECHOSOUNDERS</b> <i>Trygonis V., Kapelonis Z., Koukouroufli N.</i>	12:30 - 12:45	<b>SEASONAL VARIATION IN THE PROXY-BIOCHEMICAL COMPOSITION OF THE NON-INDIGENOUS PEARL OYSTER <i>PINCTADA IMBRICATA</i> RADIATA (LEACH, 1814) FROM THE CENTRAL WEST AEGEAN SEA, GREECE</b> <i>Makri M., Douvi X., Ramfos A., Spinos E., Theodorou J.A.</i>		
12:45 - 13:00	<b>CAN DIETARY INSECT MEAL AFFECT FISH COLOUR AND BODY SHAPE?</b> <i>Mastoraki M., Mente E., Chatzifotis S., Antonopoulou E.</i>	12:45 - 13:00	<b>DEVELOPMENT AND APPLICATION OF NOVEL METHODS FOR FISH HARVESTING AND PROCESSING FOR QUALITY PRESERVATION AND SHELF LIFE EXTENSION</b> <i>Ntzimani A., Angelakopoulos R., Semenoglou I., Stavropoulou N., Dermesonlouoglou E., Tsironi T., Xidia D., Liberis N., Moutou K., Taoukis P.</i>		
13:00 - 13:15	<b>INSECT MEAL DIETS MODULATE HSP EXPRESSION AND MAPK ACTIVATION OF EUROPEAN SEA BASS (<i>Dicentrarchus labrax</i>) AND GILTHEAD SEA BREAM (<i>Sparus aurata</i>)</b> <i>Panteli N., Mastoraki M., Chatzifotis S., Mente E., Antonopoulou E.</i>				
13:15-13:30	<b>THE EFFECT OF FISH STOCKING DENSITY ON GROWTH PERFORMANCE OF EUROPEAN SEA BASS (<i>Dicentrarchus labrax</i>) AND LETTUCE (<i>Lactuca sativa</i> VAR. GREEN TOWERS).</b> <i>Sakorafas S., Papaefstathiou K., Berillis P., Vlahos N., Levizou E., Mente E.</i>	13:15 - 14:00	<b>Poster Session</b> <b>6<sup>th</sup> Field, Processing of Aquatic Products</b> <b>7<sup>th</sup> Field, Economics &amp; Marketing of Fisheries Products</b> <b>Chairs: Steriani Matsiori, Sofoclis Dritsas</b>	13:15 - 14:00	<b>Poster Session</b> <b>8<sup>th</sup> Field, Environmental Management and Education</b> <b>Chairs: Konstantinos Skordas, Thomas Hasiotis</b>
		1	<b>EVALUATION AND MODELLING OF SHRIMP MELANOSIS</b> <i>Georgiadou M., Pliameri L., Stoforos N.G., Tsironi T.</i>	1	<b>PARTICIPATORY APPROACHES IN FLOOD RISK MANAGEMENT</b> <i>Kalli A., Koutsovili E., Tzoraki O.</i>
		2	<b>AMINO ACID COMPOSITION OF CERAMIIUM RUBRUM (RHODOPHYCEAE) FROM NORTH AEGEAN SEA, TURKEY</b> <i>Çankırılıgil E.C., Ak İ.</i>	2	<b>APPLICATION OF THE DPSIR METHODOLOGY FOR SUSTAINABLE MANAGEMENT OF WATER RESOURCES IN THE MYGONIA BASIN, GREECE</b> <i>Papamichail P., Voudouris K.S.</i>
		3	<b>MARINE BIVALVES MICROBIOLOGICAL MONITORING ORIGINATED FROM SEAFOOD MARKETS LOCATED IN THESSALONIKI (NORTH GREECE)</b> <i>Lattos A., Chaligiannis I., Giantsis I.A., Papadopoulou A., Staikou A., Michaelidis B.</i>	3	<b>Hg IN SURFACE SEDIMENTS FROM THE HARBOR OF VOLOS, GREECE</b> <i>Georgiou K., Gounaris S., Tsamili V., Neofitou N., Kelepertzis E., Kantiranis N., Skordas K., Vafidis D.</i>



4

**IDENTIFICATION OF THE PEARL OYSTER (*Pinctada imbricate radiata*), MISLABELING IN THE GREEK MARKET BY USING INTERNET-BASED TOOLS**

*Gkikas M., Koutante E., Theodorou J.A.*

4

**PRELIMINARY ACCESEMENT OF INTERACTIONS BETWEEN DOLPHINS AND FISHERS IN ZAKYNTHOS ISLAND**

*Vakouli E., Pardalis S., Komnenou A., Exadactylos A., Gkafas G.A.*

5

**Mix infection of cultured African catfish (*Clarias gariepinus*): *Rhizopus* sp. AND opportunist bacteria**

*Nikolov G., Urku C., Zarpyanova D., Sandeva G.*

6

**FLOOD AND HAZARDOUS RISK OF LARNACA CITY UNDER THE CASE OF DIFFERENT SCENARIOS**

*Theori N., Čulibrk A., Tzoraki O.*

7

**TOXICITY EVALUATION OF POLYCYCLIC AROMATIC HYDROCARBONS TOWARDS MARINE MICROALGAE: A SYSTEMATIC REVIEW**

*Athanasakou S., Petsas A.S., Vagi M.C.*

8

**HYDRAULIC SIMULATION OF THE STREAM OF PLOMARI "SEDOUNTA" LESVOS**

*Nousias I., Koutsovili E., Tzoraki O.*

9

**MEASURED AND ESTIMATED NITROGEN AND PHOSPHORUS LOADINGS OF FRESHWATER ARCTIC CHAR FISHFARMS**

*Mavraganis I., Thorarensen H., Nathanailides C., Tsoumani M.*

14:00 - 15:00

Break

15:00 - 15:45

Keynote Speech - 2

**CEPHALOPOD FISHERIES IN EUROPEAN WATERS: STOCK ASSESSMENT / FORECASTING AND MANAGEMENT**

*Dr Graham John Pierce - Institute of Marine Sciences*

**SPAIN**

**Chair:** *Drosos Koutsoubas, Kosmas Vidalis*

15:45 - 17:00

Oral Session

**8th Field, Environmental Management and Education**

**Chairs:** *Georgios Katselis, Kostantinos Topouzelis*

15:45 - 17:00

Poster Session

**2<sup>nd</sup> Field, Fisheries**

**Chairs:** *Dimitris Moutopoulos, Aikaterini Anastasopoulou*

15:45 - 17:00

Poster Session

**1<sup>st</sup> Field, Aquaculture**

**Chairs:** *Elena Mente, Nikos Neofitou*

15:45 - 16:00

**UTILIZING DRONES TO INVESTIGATE DIFFERENT WATER RESOURCES**

*Koutalakis P., Tzoraki O., Vousdoukas M., Gkiatas G., Kasapidis I., Zaimis G.N.*

1

**MORPHOMETRIC CHARACTERISTICS OF *Dentex maroccanus* IN THE AEGEAN SEA**

*Stromplou D., Mina A., Pappou G., Anastasopoulou A., Mytilineou Ch.*

1

**THE NUTRITIONAL VALUE OF THE CAPRELLID *Caprella scaura* FROM FISH FARM CAGES: A POTENTIAL SOURCE OF MARINE ANIMAL PROTEINS AND LIPIDS IN FISH NUTRITION?**

*Lolas A., Psyrra E., Pasintelis K.P., Psoufakis P., Neofytou N., Panagiotaki P., Karapanagiotidis I.T.*



- 16:00 - 16:15** TRACE ELEMENTS, NITRATE, AND SALINITY IN SHALLOW AND DEEP AQUIFERS OF AN AGRICULTURAL BASIN (NORTH-EASTERN TUNISIA)  
*Troudi N., Tzoraki O., Hamzaoui-Azaza F., Melki F., Zammouri M.*
- 16:15 - 16:30** HOW CLOSE TO *Posidonia oceanica* MEADOWS ARE THE GREEK FISH FARM PARKS?  
*Tsolakos K., Karampoula H., Katselis G.*
- 16:30 - 16:45** MAPPING OF POTENTIAL IMPACTS OF MARINE FISH FARMS IN CENTRAL IONIAN SEA (W. GREECE)  
*Karampoula H., Tsolakos K., Katselis G.*
- 2** AGE AND GROWTH OF *Micromesistius poutassou* IN NORTH AEGEAN USING OTOLITH MORPHOMETRIC OBSERVATIONS  
*Zafeiridis I., Touloumis K., Batzakas I.*
- 3** DIET COMPOSITION OF *Dentex maroccanus* IN THE AEGEAN SEA  
*Kaminas A., Mina A., Rekleiti A., Mytilineou Ch., Anastasopoulou A.*
- 4** MORPHOMETRIC MEASUREMENTS OF DATA-DEFICIENT ELASMOBRANCH SPECIES FROM THE MEDITERRANEAN SEA  
*Pyloridou K., Naasan Aga-Spyridopoulou R., Giovos I., Moutopoulos D. K.*
- 5** OTOLITH MORPHOMETRY RELATIONSHIPS OF *Pagellus erythrinus* (L. 1758) IN THE GREEK SEAS  
*Theocharis A., Vlachou M., Anastasopoulou A.*
- 6** DISTRIBUTION PATTERN of *Dentex maroccanus* IN RELATION TO ENVIRONMENTAL FACTORS IN THE AEGEAN SEA  
*Asimakopoulos C., Mytilineou Ch.*
- 7** MORPHOMETRIC MEASUREMENTS OF *Serranus hepatus* OTOLITHS IN THE GREEK SEAS  
*Nikiforidou V., Gkikas E., Mytilineou Ch., Koutsoubas D., Anastasopoulou A.*
- 2** ANTI-PROLIFERATIVE ACTIVITIES OF THE HOLOTHURIAN *Holothuria tubulosa* (ECHINODERMATA) EXTRACT ON HUMAN CANCER CELLS UNDER HYPOXIA  
*Befani C., Apostologamvrou C., Liakos P., Vafidis D.*
- 3** GROWTH RESPONSES OF F3 GROWTH-SELECTED AND NON-SELECTED BROODSTOCKS OF *SPARUS AURATA* TO FASTING AND RE-FEEDING IN RAS  
*Pavlou E., Gayo de Linos P., Martin N., Berbel C., Machado M.*
- 4** EFFECT OF FEED DEPRIVATION ON GROWTH PERFORMANCE AND PROXIMATE COMPOSITION IN GILT HEAD SEABREAM  
*Ntantalı O., Malandrakis E.E., Golomazou E., Karapanagiotidis I.T., Panagiotaki P.*
- 5** CULTIVATION OF *Tetrasmis striata* UNDER OPTIMIZED GROWTH CONDITIONS AND BIOMASS QUALITY EVALUATION FOR FISH FEED PRODUCTION  
*Patrinou V., Daskalaki A., Kampantais D., Economou C.N., Bokas D., Kanakis D.C., Aggelis G., Vayenas D.V., Kotzamanis I., Tekerekopoulou A.G.*
- 6** A NOVEL METHOD FOR DETECTION OF AMOEBA (ENDOLIMAX SP) IN WATER FROM CULTURE TANKS AND APPLICATION TO THE EVALUATION OF METRONIDAZOLE TREATMENTS IN SENEGALESE SOLE  
*Carballo C., Miguez C., Berbel C., Zerolo R., Machado M.*
- 7** GENE EXPRESSION PATTERNS ASSOCIATED WITH FAST- AND SLOW- GROWING FAMILIES AND GENDER IN SENEGALESE SOLE, *Solea senegalensis*  
*Gayo P., Zerolo R., Claros M.G., Machado M.*
- 8** GENETIC ASSOCIATION STUDY REVEALS NEW SHAPE QUALITY-RELATED MARKERS IN SENEGALESE SOLE (*Solea senegalensis*)  
*Guerrero-Cózar I., Claros M.G., Zerolo R. and Machado M.*
- 9** MULTITROPHIC-AQUAPONIC SYSTEM FOR SUSTAINABLE FOOD PRODUCTION  
*Papaefstathiou K., Sakorafas S., Berillis P., Vlahos N., Levizou E. and Mente E.*
- 10** GIS IN SAMPLING STRATEGY OF AQUACULTURE ENVIRONMENTAL IMPACTS ASSESSMENT  
*Dimoudi A., Karampetsou P., Domenikiotis C., Tziantziou L., Neofitou N.*





				11	<b>THE EFFECT OF FISHMEAL REPLACEMENT BY <i>Zophobas morio</i> LARVAE MEAL ON PROXIMATE COMPOSITION OF GILTHEAD SEABREAM (<i>Sparus aurata</i>)</b> <i>Asimaki A., Deliopoulos A., Filippakis N., Karaïskou M., Ntalakas I., Psafakis P., Rumbos C.I., Athanassiou C.G., Fountoulaki E., Henry M., Karapanagiotidis I.T.</i>
				12	<b>NATURAL ANTI-FOULING COATINGS ON KNOTTED NYLON FISH FARMING NETS</b> <i>Papadaki S., Batzakas I., Krokida M.</i>
				13	<b>DIETARY SUPPLEMENTATION WITH ESSENTIAL OIL NANOEMULSION ON GROWTH PERFORMANCE AND BLOOD PROFILES OF GILTHEAD SEABREAM (<i>Sparus aurata</i>)</b> <i>Neofytou M.C., Asimaki A., Katouni A., Gkalogianni E., Psafakis P., Michail G., Hatzioannou M., Karapanagiotidis I.T.</i>
17:00 - 17:30	<b>Break</b>				
17:30 - 18:30	<b>Poster Session</b> <b>8<sup>th</sup> Field, Environmental Management and Education</b> <b>Chairs: Panayiota Koulouri, Magia Chatziioannou</b>	17:30 - 18:30	<b>Poster Session</b> <b>3<sup>rd</sup> Field, Oceanography</b> <b>Chairs: Evangelia Krasakopoulou, Anastasia Nikolaou</b>		
10	<b>CAN MARINE SCIENCES STUDENTS SUPPORT THE OCEAN LITERACY FRAMEWORK? A PILOT STUDY FROM GREECE</b> <i>Koulouri P., Mogias A., Koutsoubas D., Dounas K., Cheimonopoulou M.</i>	1	<b>SPATIOTEMPORAL MONITORING OF SEA SURFACE TEMPERATURE IN A CENTRAL AEGEAN MPA</b> <i>Christou P., Domenikiotis C., Neofitou N., Vafidis D.</i>		
11	<b>DEVELOPMENT OF SCUBA DIVING TOURISM IN GREECE: THE SHIPWRECK OF PERISTERA IN ALONISSOS</b> <i>Douka C., Tourlioti P., Tzoraki O.</i>	2	<b>SUNSCREENS AS EMERGING MARINE POLLUTANTS: ENVIRONMENTAL CONCERNS AND IMPLICATIONS FOR THE MEDITERRANEAN SEA</b> <i>Morali O., Nikolaou A.D., Vagi M.C.</i>		
12	<b>MOLECULAR PHYLOGENY OF LAND SNAIL SPECIES OF GREECE, FAMILIES HELICIDAE AND GEOMITRIDAE</b> <i>Binia M., Mainou A., Manolouli E., Nikolopoulos A., Sarantopoulou J., Chatziioannou M., Exadactylos A., Gkafas A. G.</i>	3	<b>PROFILES OF TOXIC METALS IN EASTERN MEDITERRANEAN MARINE ENVIRONMENTS</b> <i>Priovolos I., Nikolaou A.D., Kitsiou D.</i>		
13	<b>OCCURRENCE OF ANTHROPOGENIC MICROPARTICLES IN Boops boops FROM LESVOS COASTAL AREA (NE AEGEAN)</b> <i>Yogiatis G., Marmara D., Krasakopoulou E.</i>	4	<b>WIND WAVE ANALYSIS OF COASTAL WATERS USING THE OCEANLYZ TOOLBOX</b> <i>Ntintas N., Tzoraki O., Karimpour A.</i>		
14	<b>MODELING THE EFFECT OF FUCALEAN COMMUNITIES IN COASTAL HYDRODYNAMICS: FIRST RESULTS</b> <i>Papadimitriou E., Papadimitriou A., Orfanidis S.</i>	5	<b>CONSTRUCTION OF LOW-COST HYDROPHONES USING OFF-THE-SHELF COMPONENTS</b> <i>Galanos V., Trygonis V.</i>		



**15** MONITORING MARINE LITTER IN PORTS OF THE  
NORTHERN AEGEAN SEA ACCORDING TO THE MARINE  
STRATEGY FRAMEWORK DIRECTIVE

*Tegkelidis D., Mylona Z., Doumpas N., Papadimitriou E.,  
Charitou A.*

**16** PRELIMINARY RESULTS OF FISHING FOR LITTER IN  
GREECE 2020

*Ataktidou M., Kontaxi C., Naasan Aga – Spyridopoulou R.*

**18:15 - 18:30** Break

HALL 1 - < Mytilene >

**18:30 - 19:30** Congress Keynote Speech

**BIODIVERSITY, ECOSYSTEM SERVICES, AND NATURAL CAPITAL OF THE MEDITERRANEAN TRANSITIONAL ECOSYSTEMS**

*Professor Alberto Basset, University of Salento*

**ITALY**

**Chair:** *Drosos Koutsoubas, Michael Chatziefstathiou*



## Saturday, 6 November 2021

### HALL 1 - < Mytilene >

10:00 - 12:00	<b>Oral Session</b> <b>1<sup>st</sup> Field, Aquaculture</b> Chair: Eleni Golomazou, Ioannis Karapanagiotidis
10:00 - 10:15	<b>PRELIMINARY RESULTS OF NUTRIENT DISTRIBUTION AT AN AQUACULTURE AREA OF PAGASITIKOS GULF USING GIS</b> <i>Karampetsou P., Dimoudi A., Domenikiotis C., Tziantziou L., Klaoudatos D., Skordas K., Neofitou N.</i>
10:15 - 10:30	<b>LEAPING GREY MULLET <i>Liza saliens</i> AS AN ALTERNATIVE AND CANDIDATE FISH SPECIES TO BE USED IN A BRACKISH AQUAPONIC SYSTEM CO-CULTIVATED WITH ROCKET PLANT <i>Eruca sativa</i></b> <i>Theodorakaki E., Papadakis G., Kaloussias S., Mente E., Vlahos N.</i>
10:30 - 10:45	<b>CELLULAR RESPONSE TO SOYBEAN MEAL REPLACEMENT WITH NETTLE LEAF (<i>Urtica dioica</i>) MEAL IN RED TILAPIA (<i>Oreochromis sp.</i>), REARED IN AN AQUAPONIC SYSTEM</b> <i>Mantzourani S., Panagiotidou P., Panteli N., Demertzoglou M., Tsoumalakou E., Germani R., Mente E., Levizou E., Antonopoulou E.</i>
10:45 - 11:00	<b>POTENTIAL ANTIMICROBIAL ACTIVITY OF PLANT EXTRACTS AGAINST <i>Vibrio anguillarum</i></b> <i>Secer F.S., Urku C., Tunar M.A., Yavuzcan H.Y.</i>
11:00 - 11:15	<b>INNOVATIVE APPROACHES TO REDUCE THE USE OF ANTIBIOTICS IN AQUACULTURE: CONTRIBUTION OF MICROALGAE TO THE IMMUNE SYSTEM</b> <i>Coşkun Y.M., Bayoğulları B., Tolon M.T.</i>
11:15 - 11:30	<b>PRELIMINARY RESULTS OF AN IMTA IN GREECE: CO-CULTURE FISHES, MUSSELS AND OYSTERS</b> <i>Chatzivasileiou D., Papageorgiou N., Kalatzi I., Dimitriou P.D., Theodorou J.A., Karakassis I.</i>

### HALL 2 - < Volos >

10:00 - 12:00	<b>Poster Session</b> <b>4<sup>th</sup> Field, Marine Diversity &amp; Conservation</b> Chair: Georgios Gkafas, Dimitris Klaoudatos
1	<b>CLIMATIC STABILITY OF THE MEDITERRANEAN MARINE PROTECTED NETWORK</b> <i>Kyprioti A., Almpnidou V., Katsanevakis S., Mazaris A.D.</i>
2	<b>ASSESSING UNCERTAINTY IN CLIMATIC NICHE MODELS FOR JUVENILE SEA TURTLES IN THE MEDITERRANEAN SEA</b> <i>Chatzimentor A., Almpnidou V., Doxa A., Dimitriadis C., Mazaris A.D.</i>
3	<b>FALSE KILLER WHALES (<i>Pseudorca crassidens</i>) PRESENCE IN GREECE, EAST MEDITERRANEAN: OLD AND NEW DEVELOPMENTS</b> <i>Drougas A., Akritopoulou E., Gkafas G., Kofidou E., Komenou A.</i>
4	<b>Paracentrotus lividus AS BIOCONTROLLER OF INVASIVE SPECIES RUGULOPTERYX OKAMURAE. A LABORATORY APPROACH.</b> <i>Hachero Cruzado I., Jiménez T., Machado M.</i>
5	<b>ALIEN AND RARELY REPORTED MOBILE SPECIES IN MARINE CAVES OF THE AEGEAN SEA, GREECE</b> <i>Digenis M., Ragkousis M., Katsanevakis S., Gerovasileiou V.</i>
6	<b>OCCURRENCE OF <i>Trachipterus trachipterus</i> AND <i>Zu cristatus</i> IN THE GREEK SEAS: CONTRIBUTION OF CITIZEN SCIENCE PROJECTS IN RARE SPECIES MONITORING</b> <i>Kaminas A., Minasidis V., Doumpas N., Naasan Aga Spyridopoulou R., Tiralongo F.</i>



- 7 ANTI-OXIDANT CAPACITY OF TWO MICROALGAL STRAINS ISOLATED FROM GREEK SALT PANS**  
*Papadaki S., Chantzistrountsiou X., Ntzouvaras A., Koletti A., Tzovenis I., Flemetakis E., Economou-Amilli A.*
- 8 PLANKTONIC MALACOSTRACAN FAUNA OF THE NORTH AEGEAN SEA (NAS) REGION: A PRELIMINARY REPORT**  
*Gkoulia A., Anastasiadou Ch., Papathanasiou V., Orfanidis S.*
- 9 PRELIMINARY STUDY OF THE REPRODUCTIVE BIOLOGY OF SEA CUCUMBER *Holothuria poli* (Delle Chiaje, 1823) FROM CENTRAL AEGEAN SEA**  
*Apostologamvrou C., Balatsou A., Vafidis D.*
- 10 GROWTH AND MORTALITY OF THE SEA URCHIN *Arbacia lixula* (LINNAEUS, 1758) IN PAGASITIKOS GULF (CENTRAL AEGEAN SEA)**  
*Klaoudatos D., Tziantziou L., Neofitou N., Lolas A., Apostologamvrou C., Vafidis D.*
- 11 HISTOLOGICAL STUDY OF THE SCALDFISH, *Arnoglossus laterna* (Walbaum, 1792)**  
*Ntavaros C., Apostologamvrou C., Vlachou M., Theocharis A., Klaoudatos D.*
- 12 PRELIMINARY STUDY ON THE REPRODUCTIVE BIOLOGY OF THE EUROPEAN HAKE *Merluccius merluccius* (Linnaeus, 1758) IN PAGASITIKOS GULF, GREECE**  
*Apostologamvrou C., Theocharis A., Vlachou M., Ntavaros C., Klaoudatos D.*
- 13 GENETIC DIVERSITY PATTERNS OF MESOPELAGIC FISH IN THE GREEK SEAS**  
*Sarropoulou X., Tsaparis D., Tsagarakis K., Badouvas N., Tsigenopoulos C.*
- 14 FIRST INVENTORY OF SEA CAVES AROUND CYPRUS**  
*Cai L.L., Savva I., Kleitou P., Alexandrou S., Sini M., Trygonis V., Gerovasileiou V., Ioannou Y., Nicolaou H., Markou M., Koutsoubas D., Kletou D.*



12:00 - 12:30		Break	
12:30 - 13:15		<b>Keynote Speech - 3</b> <b>MODERN APPROACHES CONSIDERING AQUACULTURE IN EUROPEAN WATERS: MUCOSAL SURFACES, THE FIRST LINE OF DEFENSE IN FISH</b> <i>Professor Samuel Martin - University of Aberdeen</i> <b>UNITED KINGDOM</b> <b>Chair:</b> <i>Elena Mente, Athanassios Exadaktylos</i>	
13:15 - 14:00	<b>Oral Session</b> <b>1<sup>st</sup> Field, Aquaculture</b> <b>Chairs:</b> <i>Constantinos Poulos, Nikolaos Vlahos</i>	13:15 - 14:00	<b>Oral Session</b> <b>3<sup>rd</sup> Field, Oceanography</b> <b>Chairs:</b> <i>Vassilis Zervakis, Evangelia Krasakopoulou</i>
13:15 - 13:30	<b>AMMONIA AND NITRITE TOLERANCE OF <i>Palaemon adspersus</i> JUVENILE IN EXPERIMENTAL CONDITIONS</b> <i>Vlahos N., Giannoulatou K., Nikolopoulos Ch., Patsea E., Mente E.</i>	13:15 - 13:30	<b>UAS IMAGE QUALITY EVALUATION</b> <i>Doukari M., Topouzelis K.</i>
13:30 - 13:45	<b>MORPHOMETRIC MEASUREMENT AND CA/P LEVELS OF SEA BASS (<i>Dicentrarchus labrax</i>) VERTEBRAE.</b> <i>Nikiforidou V., Zaoutsos S., Vlahos N., Berillis P.</i>	13:30 - 13:45	<b>SURFICIAL SEDIMENT DISTRIBUTION IN THE SEMI-ENCLOSED GULF OF KALLONI (LESVOS ISL)</b> <i>Manoutsoglou E., Oikonomou A., Hasiotis T.</i>
13:45 - 14:00	<b>EFFECTS OF HEAT HARDENING ON OXIDATIVE DEFENCE CAPACITY IN THE MANTLE OF THERMALLY STRESSED MYTILLUS GALLOPROVINCIALIS</b> <i>Georgoulis I., Feidantsis K., Giantsis I. A., Kakale A., Bock C., Pörtner H.O., Sokolova I.M., Michaelidis B.</i>		
14:00 - 15:00		Break	
15:00 - 15:45		<b>Keynote Speech - 4</b> <b>MEDITERRANEAN SEA AND CLIMATE CHANGE</b> <i>Dr. Joaquim Garrabou - Institute of Marine Sciences</i> <b>SPAIN</b> <b>Chairs:</b> <i>Drosos Koutsoubas, Elina Tragou</i>	
15:45 - 17:00	<b>Poster Session</b> <b>8<sup>th</sup> Field, Environmental Management and Education</b> <b>Chairs:</b> <i>Alexis Ramfos, Dimitra Kitsiou</i>	15:45 - 17:00	<b>Poster Session</b> <b>1<sup>st</sup> Field, Aquaculture</b> <b>Chair:</b> <i>Ioannis Tzovenis, Nikos Neofitou</i>
17	<b>A PRELIMINARY ECOSYSTEM SERVICES ASSESSMENT OF GIOFYROS RIVER, CRETE</b> <i>Gkaifyllia A., Čulibrk A., Tzoraki R.</i>	14	<b>EFFECTS OF FISHMEAL REPLACEMENT BY <i>Chlorella vulgaris</i> AND FISH OIL REPLACEMENT BY <i>Microchloropsis gaditana</i> AND <i>Schizochytrium</i> sp. BLEND ON WHOLE BODY PROXIMATE COMPOSITION OF EUROPEAN SEA-BASS (<i>Dicentrarchus labrax</i>)</b> <i>Gkalogianni E.Z., Psoufakis P., Asimaki A., Moustogianni A., Papapolymerou G., Katsoulas N., Karalazos V., Karapanagiotidis I.T.</i>



- 18 GOVERNANCE AND EVALUATION OF ECOSYSTEM SERVICES IN THE COASTAL AREA OF SOUTH – SOUTHEAST ATHENS SECTOR**  
*Svolou M.A., Tourlioti P., Tzoraki R.*
- 19 PUMPING COST MINIMIZATION WITH THE USE OF AN ITERATIVE ALGORITHM IN SIMANTRA SETTLEMENT, CHALKIDIKI, GREECE**  
*Mallios Z., Karagiannopoulos P., Siarkos I.*
- 20 LIFE CYCLE ASSESSMENT OF SMALL SNAIL FARMING SYSTEMS: THE GREEK CASE**  
*Hatzioannou M., Doxarioti A., Apostolou K., Exadactylos A., Kokkinos K.*
- 21 SHORT-TERM SURVIVAL OF FAN MUSSEL (*Pinna nobilis* L.) DURING AN EXPERIMENTAL TRANSPLANTATION IN MALIAKOS GULF, GREECE: FIRST RESULTS**  
*Tsamadias I.E., Rizou D., Theodorou J.A., Lattos A., Giantsis I.A., Kyritsi S., Ramfos A., Michaelidis V.*
- 22 MARINE SPATIAL PLANNING: A GIS TOOLBOX TO ASSESS THE SIGNIFICANCE OF CONFLICTS OF ACTIVITIES IN COASTAL AREAS**  
*Patera A., Tsoumachidis A., Kitsiou D.*
- 23 OCCURRENCE OF ORGANOCHLORINATED PESTICIDES IN THE MARINE BIOTA OF THE MEDITERRANEAN SEA: A SYSTEMATIC REVIEW**  
*Tzourtzoukli H., Petsas A.S., Vagi M.C.*
- 24 INVESTIGATION OF A MODEL DESIGN IN A LOW DAM FISH PASS HYDRAULIC CONSTRUCTION - THE CASE STUDY OF THE CONSTRUCTION NAMED «ROLLER PATH (RPT)»**  
*Psilovikos A., Papathanasiou T., Malamataris D.*
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16:45 - 17:00 Break

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17:00 - 17:30 Closing Ceremony

17:30 - 18:30 Panhellenic Society of Technologists Ichthyologists (PASTI)  
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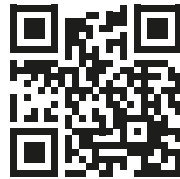
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