

SOFAS2022



Food and Agriculture
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United Nations



General Fisheries Commission
for the Mediterranean
Commission générale des pêches
pour la Méditerranée



TAGEM
AR-GE & INOVASYON



SOFAS 2022

INTERNATIONAL SYMPOSIUM ON FISHERIES AND AQUATIC SCIENCES

October 25-27, 2022 | Trabzon, TÜRKİYE
SUMAE National Fisheries GeneBank Conference Hall

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SYMPOSIUM PROGRAMME

25 October 2022 (Day 1)

08:30	Registration
SUMAE National Fisheries Gene Bank	
10:00	Opening Speech
10:30	Invited Speaker
12:00	Group Photo
12:15	Lunch
13:15	Poster Session-1
Session I: AQUACULTURE STUDIES	
14:00	Review of aquaculture systems of Georgia, current condition, and future perspectives Guranda Bagrationi, Rezo Goradze
14:15	Comparative profiling of growth, feed utilization and proximate composition of African bony tongue (<i>Heterotis niloticus</i>) fed <i>Bacillus Subtilis</i> 200 and <i>Saccharomyces cerevisiae</i> Christian Larbi Ayisi
14:30	Determination of Abant Trout (<i>Salmo abanticus</i> Tortonese, 1954) Alevin's Yolk Sac Consumption Depends on Egg Size Mehmet Zeki ALKAN, Nurettin BAŞKAN
14:45	Molting Frequency, Survival and Growth Performance of Blue Swimming Crab Instar (<i>Portunus pelagicus</i>) Using Combination of Treflan and Furazolidone as Therapeutants Iannie P. Maribao, Abdel-Azeem M. Alsim
15:00	Effect of Different Inorganic Substrates on Growth Performance of African Catfish (<i>Clarias gariepinus</i> , Burchell 1822) and Lettuce (<i>Lactuca sativa</i> L.) Murat Yeşiltaş, Mehmet Ali Turan Koçer, Hüseyin Sevgili, Edis Kuru

15:15	Fattening of mud crab fed with two different diets (trash fish and stingray) at Sitio Sindang Indanan Sulu, Philippines Enraida IMBUK, Suada INDANAN, Satra SAILADJAN, Keriman YÜRÜTEN ÖZDEMİR
15:15	Embryonic and Larval Development in the European Eel (<i>Anguilla anguilla</i> L. 1758) During its Reproduction Efforts in Turkey Süleyman ÖZTÜRK, İsa Aydın, Soner Sezen, Adem Kurtoğlu, Burak Evren İnanan, Ahmet Mefut, Hüseyin Sevgili, Mahir Kanyılmaz, Salih Kocakaya, Tamás Müller
15:30	Different Salinity Ratios' Impacts on Tub Gurnard (<i>Chelidonichthys lucerna</i> , Linnaeus 1758) Sperm and Egg Atife Tuba BEKEN, Hamza POLAT, Atila HAŞİMOĞLU
15:45 – 16:00 Coffee Break	
16:00	Intestinal enzyme activities and Fe, Co, Mn bioaccumulation in response to Co-Met and Co-NPs supplemented diet and their effect on muscle proximate composition of <i>Tor putitora</i> Naima Younus; Amina Zuberi - ONLINE
16:15	Shilajit supplemented diet significantly improve the growth performance immunological indices, and antioxidant enzymes activities in of rohu (<i>Labeo rohita</i>) Shawal Khana, Amina Zuberia , Naima Younusa -ONLINE
16:30	Productive yield of the Guayas Cichlid (<i>Mesoheros festae</i>) fed palm kernel meal-based diets during the growing stage Edison Mazon Paredes ONLINE
16:45	Biomass and abundance indices and length-weight relationships of thornback ray (<i>Raja clavata</i> , Linnaeus, 1758) estimated by a demersal trawl survey in Bulgarian Black Sea waters in autumn 2020 Feriha M. Tserkova, Elitsa P. Petrova - Pavlova, Vesselina V. Mihneva
17:00	First Siberian Sturgeon Production in Turkey and The Effect of Different Feeds on Growth Performance and Survival Rates of Siberian Sturgeon Larvae Tuna ÖZCELEP, İrfan Selçuk YAZICI, Bilal AKBULUT, Recep PARLAK, Hasan ERGÜN
17:15	Comparison of Fatty Acid Profiles of Black Sea Salmon (<i>Salmo labrax</i> , PALLAS 1814) Caught from Haldizen and Firtina Streams Eyüp ÇAKMAK, Abdülkadir BAYIR, Şirin FİRİDİN, Oğuzhan EROĞLU, Nilgün AKSUNGUR, Muharrem AKSUNGUR, Yahya ÇAVDAR, Esin BATIR

17:30	Investigation of Novel Aesthetic Compounds in Fish Bilal Akbulut, Seçkin Engin, Asiye Nur Saltan, Gülin Renda, Elif Aygür, Yeşim Kaya-Yaşar, Ercan Küçük, Sena F. Sezen
17:45	Reproductive performance of Black Sea salmon (<i>Salmo labrax</i> Pallas, 1814) fed with diets containing different lipid levels Eyüp Çakmak, Osman Tolga Özel, Nilgün Aksungur, Muharrem Aksungur, Hasan Ergün, Zehra Duygu Düzgüneş, Şirin Firdin, Muhammed Doğan Özdemir

26 October 2022 (Day 2)

Session II: FISHERIES & AQUATIC SCIENCES

08:30	Some Morphological and Meristic Characteristics of European Bitterling (<i>Rhodeus amarus</i>) from Kızılırmak River Basin Nurettin BAŞKAN, Mehmet AYDIN, Ahmet ŞAHİN, Rafet Çağrı ÖZTÜRK, Yahya TERZİ, Coşkun ERÜZ, Fatma Telli KARAKOÇ, Ali Muzaffer FEYZİOĞLU, Hacer SAĞLAM, İlnur YILDIZ
08:45	A possible biomass contribution to fauna of Finike Seamounts by terrestrial insects Fatih DİKMEN, İrem KISMET
09:00	Otolith Shape Analysis of Anchovy (<i>Engraulis encrasicolus</i>) in the Black Sea coast of Turkey Nimet Selda BAŞÇINAR, Elvan TERCAN
09:15	Population structure of Mediterranean horse mackerel in the marine waters of Türkiye as determined by morphological markers Umar KHAN, Kadir SEYHAN
09:30	Stakeholders' perspectives on the management measures in Rapa whelk fisheries in the Black Sea Turkish coast Murat Dağtekin, Şahin Karapaça, Vedat Ceyhan, Devrim Selim Mısır, Cemil Altuntaş, Osman Uysal, Salih İlhan, Büket Buşra Dağtekin
09:45	Integrated GIS mapping and public perception on Coastal Marine Protected Areas Determination in Trabzon Coast, SE Black Sea Neira Purwenty ISMAIL, Coşkun ERÜZ
10:00	Rewind – A natural & scalable solution for CO ₂ removal Dror ANGEL, Ram AMAR, Peter KROST, Kobi KAMINITZ, Eitan BRETTLER, Noa OLENIK

10:15	Assessment of School Structures and Behaviours of Small Pelagics Depending Upon Water Temperature by Hydro-Acoustic Method in South-eastern Black Sea Murat Erbay
10:30	The Importance of Sprat in terms of Food Dynamics in the Black Sea Ecosystem
10:45-11:00 Coffee Break	
11:00	A NEW OSTRACOD (CRUSTACEA) SPECIES FROM ANTARCTICA OKAN KULKOYLUOGLU (Abant İzzet Baysal University) - ONLINE
11:15	Current Status and Major Threats of the Konya Closed Basin Endemic Fish Fauna Mustafa Korkmaz, Arely Ramírez-García, Juan Pablo Pacheco, Cemreay Dede, Vildan Acar, Celina Aznarez, Serhat Ertuğrul, Gültekin Yılmaz, Kerem Gökdağ, Meltem Korum, Melisa Metin, Cihelio Alves Amorim, M. Arda Çolak, Zuhal Akyürek, Korhan Özkan, Meryem Beklioğlu, Erik Jeppesen
11:30	Biodiversity of Crustacea of a mangrove ecosystem in the Azini Bay, Oman Sea Rahil Nozarpour, Mehdi Gh. Shojaei, Reza Naderlo
Session III: GENETICS & DISEASES OF AQUATIC ORGANISMS	
11:45	Potentially toxic and/or harmful phytoplankton observed at an Algerian shellfish farm: CULTMARE-Tipaza. Zakia Mokrane, Moncef Karamane and Akram Abderahim Kahla
12:00	Evaluation of Antibacterial Activity of Cultivated Caucasian Whortleberry (<i>Vaccinium arctostaphylos</i> L.) Against Fish Pathogens Ertugrul TERZI, Albaris B. TAHILUDDIN, Ali Eslem KADAK
12:15	Detecting Toxic Species from Marine Mucilage Through Digital Droplet PCR Işıl ÇELİK, Esra Mine ÜNAL, Berkay GÜLEN, Pelin TAŞ, Emre KESKİN
12:30	Biodiversity assessment of bird species in Uyuz Lake using environmental DNA metabarcoding Ayşegül ER GÖKÇE, Esra Mine ÜNAL, Emre KESKİN
12:45 – 14:00 LUNCH BREAK	
14:00	A roadmap and key issues for de novo chromosome-scale fish genome assembly: Current challenges and best-practices Vahap Eldem

14:15	Determination of Antibody Response Against <i>Aeromonas hydrophila</i> in Carp (<i>Cyprinus carpio</i> , Linnaeus 1758) Living in Sivas-Sarkisla up Kizilirmak Basin Çermikler Hepp Region Sevkan Özütok, Aysel Şahan, İbrahim Şahin
14:30	Detection of the Lakes Biodiversity in the Antarctic Peninsula by eDNA Metabarcoding Ayşegül ER GÖKÇE, Esra Mine Ünal, Emre Keskin, Korhan Özkan
14:45	First Isolation of <i>Saprolegnia parasitica</i> in Black Sea Trout in Türkiye Mustafa TÜRE, Elif AYGÜR, Nihal ÇALIŞKAN, Melike ALEMDAĞ
15:00	Metabarcoding profiles of microbial community in the Black Sea Ilhan Altinok, Rafet Cagri Ozturk, Ali Muzaffer Feyzioglu, Erol Capkin, Ilknur Yildiz
15:15-15:30 Coffee Break	
15:30	Antibiotic Resistance Gene Detection in Plasmids of <i>Lactococcus garvieae</i> Isolated from Rainbow Trout in Mediterranean Countries Dilek USTAOĞLU, Mustafa TURE, Rafet C. OZTURK, Silvia COLUSSI, Ana Isabel VELA, Jose Francisco FERNANDEZ-GARAYZABAL, Paolo PASTORINO, L. FARIANO, Donatella VOLPATTI, Konstantina BITCHAVA, Charalampos KOTZAMANIDIS, Acutis Pier LUIGI, Marino PREARO, Ilhan ALTINOK
15:45	Identification of Some Algae Species Isolated from The Central and Eastern Black Sea Coast by Molecular Methods Atila Hasimoglu, Nihal Çalışkan, Yılmaz Ciftci, Cem Tolga Gurkanlı
16:00	Genetic Diversity of Whiting (<i>Merlangius merlangus</i>) in the Black Sea Ayşe CEBECİ, Melike ALEMDAĞ, Şirin FİRİDİN - ONLINE
16:15	Isolation of Disease Agents from Cultured European Flounder (<i>Platichthys flesus</i>) İlhan Aydın, Ayşe CEBECİ, Hakan Işidan, Mustafa Türe, Oğuzhan Eroğlu, Şirin Firidin, Yılmaz Çiftçi - ONLINE
Session IV: AQUATIC FOOD STUDIES	
16:30	Invited Speaker (Online) Hydrolyzed collagen from fish skin Quality improvement and Bioactivities Soottawat Benjakul, Prince of Songkla University
17:00	Investigation on the Total Phenolic Contents and Antioxidant Capacity of Seaweed <i>Kappaphycus alvarezii</i> Extract Merilyn AMLANI, Nursalyn AMLANI, Senem YETGİN

17:15	Comparison of protein hydrolysate oil obtained by two different enzymes using rainbow trout (<i>Oncorhynchus mykiss</i>) by-products in terms of lipid oxidation parameters Koray KORKMAZ, Yılmaz UÇAR, Serpil ÖZTÜRK, Bahar TOKUR
17:30	Comparison of Israeli carp meat, scales, internal organs and bone structures in terms of lipid oxidation parameters KORAY KORKMAZ
17:45	Acceptability of Different Concentrations of <i>Chlorella sp.</i> in Filipino Delicacy Puto as Coloring Agent Jurmin H. Sarri, Gökhnun Çağatay Erbil, Mahmut Elp, and Ali Eslem Kadak ²
18:00	The Role of Fish Protein Hydrolysate Addition on Fish Mince Quality Subjected to Freeze-Thaw cycles Gülsüm Balçık Mısır, Büket Buşra Dağtekin, Sebahattin Kutlu
18:15	Edible marine gastropod and bivalve species sold in the local market during Ramadan in Tawi-Tawi, Philippines Gerly-Ayn TUPAS, Gerwin TUPAS, Norwely TUPAS, Soner BİLEN
18:30	Comparison of Functional Properties of Protein Powders Produced from Sprat (<i>Sprattus sprattus</i> L., 1758) by Two Different Methods Büket Buşra Dağtekin, Gülsüm Balçık Mısır, Sebahattin Kutlu, Ahmet Faruk Yeşilsu
18:45	Changes of Fatty Acids and Lipid Quality Indexes of Fish Fingers Produced by pH Shifting Method from Prussian Carp (<i>Carassius gibelio</i> Bloch, 1782) During Frozen Storage (-18°C) Büket Buşra Dağtekin
19:00	Active Films Based on Polycaprolactone/Fish Gelatine Electrospun Nanofibers Including Egg White Protein Esen ALP -ERBAY, Ahmet Faruk YEŞİLSU, Mustafa TÜRE
20:00	GALA DINNER

POSTER SESSION

<p>Effects of phytic acid and phytase on digestive enzymes of redclaw crayfish <i>Cherax quadricarinatus</i> Matías E. CASARETTO, Liane STUMPF, Rosendo L. AZCUY, Laura S. LÓPEZ GRECO, Darío COLOMBATTO</p>
<p>Distribution and Biological Characteristics of <i>Alloteuthis Media</i> (Linnaeus, 1758) in The Northern and Central Adriatic Sea Svjetlana Krstulović Šifner, Lucia Dabro Ružić, Igor Isajlović, Nedo Vrgoč</p>
<p>Study on Virulence Differences of Isolates of Viral Hemorrhagic Septicemia Virus (VHSV) Purified Using Plaque Test Yasemin ÇİÇEK YILDIZ, Harun ALBAYRAK</p>
<p>Could cellulase enhance phytase activity in rainbow trout (<i>Oncorhynchus mykiss</i>)? A combination of Response Surface Methodology and in vitro assays Matías E. CASARETTO, Gabriel A. MORALES</p>
<p>Molecular study of Caspian Roach populations in the southern Caspian Sea Mohammad Sadegh Alavi-Yeganeh, Ramin Vali-Eskandani</p>
<p>Protocol optimization for eDNA extraction via cutting the casing of capsulated filter Pelin Taş, Esra Mine Ünal, Atakan Pipilos, Emre Keskin</p>
<p>The effect of DNA extraction methods on metabarcoding results Pelin Taş, Esra Mine Ünal, Işıl Çelik, Atakan Pipilos, Emre Keskin</p>
<p>Detection of the River Biodiversity in Robert Island in the Antarctic Peninsula by eDNA Metabarcoding Ayşegül ER GÖKÇE, Esra Mine Ünal, Emre Keskin, Korhan Özkan</p>
<p>The reality of recreational fisheries economics in Algeria Nadhéra Babali, Mohamed Kacher, Dyhia Belhabib, Ferial Louanchi, Daniel Pauly</p>
<p>Nutrient valuation of <i>Azolla</i> for fish feeding, case of Algeria Faiza ALLIOUCHE, Redhouane Benfares, Soumia Benrabah, Maha Kherarba, Mohamed Yazid</p>
<p>Diet of the warty crab <i>Eriphia verrucos</i> (Forskål, 1775) in the eastern Adriatic Sea Nerlović, Vedrana and Kuzmanić, Pave</p>
<p>Increase in positive temperature anomalies in Algerian surface water and its impact on marine biodiversity Nadhéra Babali, Ferial Louanchi, Wahid Refes</p>
<p>Ichthyological Inventory and Classification of Lake Ecosystems in the Eastern and Western Regions of Algeria and Their Fish Farming Potential Faiza ALLIOUCHE, Sonia Ould Rouis, Abdeslem Arab, Lidia Baitiche, Abdelhalim Ould Rouis, Mohamed Yazid</p>
<p>Morphological characterization of four Gobies from the Black Sea Uğur Karadurmuş, Dilek Ustaoglu, Rafet Çağrı Öztürk, Yahya Terzi, Mehmet Aydın</p>
<p>The Bacteriological Quality Of The Waters Of Lake Reghaia, East Of Algiers, Algeria Sonia OULD ROUIS, Faiza Alliouche, Hassiba Mansouri, Abdelhalim Ould Rouis</p>
<p>Growth of <i>Cyprinus carpio</i> in Hamiz Reservoir, Southeast Algeria</p>

<p>Sonia Ould Rouis, Faiza Alliouche, Hassiba Mansouri, Abdelhalim Ould Rouis</p> <p>Integrating recirculating aquaculture system for hydroponic Lettuce (<i>Lactuca sativa</i> L) production</p> <p>Sarra BENAÏSSA, Ayoub HADJEB</p>
<p>Population and Growth parameters of <i>Symphodus roissali</i> in the Southern Black Sea</p> <p>Dilek Ustaoglu, Mehmet Aydın</p>
<p>Criticality Analysis of the idealized Two-layer Bosphorus Flow by Direct Tracking of Interfacial Waves with a 3D Ocean Model</p> <p>Adil Sözer</p>
<p>Seasonal zooplankton diversity and its relationship with environmental factors of Kerrada reservoir, northwest Algeria (Mostaganem)</p> <p>Lidia BAITICHE, Safia BIDI, Faiza ALLIOUCHE</p>
<p>Effect of replacing fish meal with black soldier fly meal on growth of red tilapia <i>Oreochromis</i> sp</p> <p>Sabrina HIDOUCI, Soufiane BENSALÉM, Khouloud GHETTAS, Khebab ALLAL, Rayehana TEMIRA</p>
<p>Assessing the impact of Dietary Supplement, Alginate/Spirulina (<i>Spirulina platensis</i>) on Growth Performance of Tilapia <i>Oreochromis</i> Sp.</p> <p>Soufiane BENSALÉM, Messouda NAAMI, Khadidja ROUAI, Sabrina HIDOUCI, Boualem HAMDİ</p>
<p>Influence of temperature changes on phytoplankton community structure in the surface water layer of Varna Bay (1992-2020)</p> <p>Daniela Klisarova, Dimitar Gerdzhikov, Nina Nikolova, Martin Gera, Petya Veleva</p>
<p>Estimates of population dynamics parameters of red porgy (<i>Pagrus pagrus</i> Linnaeus, 1857) in the central Algerian coast (southwestern Mediterranean)</p> <p>Samira Boufersaoui</p>
<p>Impact of artisanal and recreational fishing on the ichthyofauna of BabnEl Oued-Ain Benian area</p> <p>Kribel Fella, Refes Wahid</p>
<p>Evaluation of lead and cadmium concentrations in the muscles of four fish species from Ain El Ghazala Lagoon, Libya</p> <p>Mohammad El-Mabrok, Eman S. Alfergani, Mousa M.Y.Kateesh, Najlaa F. Mohammed, Yahya A. Mohammed, Aya I. Muhammad and Mariam A. majeed</p>
<p>Application of a SWOT tool on Algerian aquaculture farms</p> <p>Djamila MAOUEL, Houda Fellah, Fatma Zohra Difallah, Toufik Milla</p>
<p>Cigarette Butts Pollution in Trabzon Coast, Southeast Black Sea</p> <p>Neira Purwanty Ismail, Coşkun ERÜZ, Koray ÖZŞEKER</p>
<p>Evaluation of Water and Sediment Heavy Metal Samples of Beyşehir Lake by Geographical Information Systems</p> <p>Cafer BULUT, Erhan ŞENER</p>
<p>The „EcoFISHent” project – sustainable fish waste managing system</p> <p>Mirena Zhelezarova</p>

Groundwater and Surface Water Monthly Nutrient Discharges into the Cilician Basin

Serhat Ertuğrul, Burak Kuyumcu, Ekin Akoğlu, Koray Özhan, Korhan Özkan

The Correlation between Fat Content and Body Index of Sprat (*Sprattus sprattus*) in Turkish Black Sea coast

Salih İlhan, Sebahattin Kutlu

Estimation of the first maturity length of European sprat (*Sprattus sprattus*) in the South-Eastern Black Sea

Salih İlhan, Yakup Erdem

Bacteriophages as a Potential Solution against Multidrug Resistant Pathogens in Aquatic Ecosystem

Chitra Pokharia, Kavita Shah

Microplastics Pollution in Freshwater Ecosystem in India: A Case Study

Vyomendra Chaturvedi, Kavita Shah

Hematological response of Montanide oil-based inactivated vaccine of *Aeromonas hydrophila* administered on Rohu (*Labeo rohita*) and Grass carp (*Ctenopharyngodon idella*) cultured in Punjab, Pakistan

Fatima SUGHRA, Sana SHAUKAT, Muhammad Hafeez-ur-Rehman, Farzana ABBAS

27 October 2022 (Day 3)

Option 1	Cage Visit & Hagia Sophia & City Centre
Option 2	Hatchery Visit & Sumela Monastery
Option 3	Freshwater Farm Visit & Uzungol

