

## 14th International Symposium on Fisheries and Aquatic Sciences

### PROGRAM



07/09/2021	★ <b>Opening Session of FABA 2021 (Common Session)</b>
09:00	<i>Prof.Dr. Sedat V. YERLİ</i> Honorary Chair of the FABA Symposiums
09:05	<i>Prof.Dr. Uğur SUNLU</i> Chair of the FABA 2021 Symposium
09:15	<i>Genel Müdür Yrd. Turgay TÜRKYILMAZ</i> Deputy Director General - General Directory of Fisheries And Aquaculture, Ministry of Agriculture And Forestry, Republic of Turkey
10:00	<i>Prof.Dr. Necdet BUDAK</i> Rector of Ege University
	☆ Key note Speechs
10:30	<i>Prof. Ad Honorem A. Javier Borderias</i> Institute of Food Science and Technology and Nutrition (ICTAN-CSIC), Spain "Past, present and possible future of the Seafood Technology"
11:00	<i>Graham Mair</i> UN Food and Agriculture Organisation "Managing genetic resources in aquaculture - the opportunity to do it better"
11:30	<i>Prof.Dr. Masashi Maita</i> Tokyo University of Marine Science and Technology Department of Marine Biosciences, (TUMSAT) Japan "Current status and issues for sustainable marine aquaculture in Japan"
12:00	Break
Parallel sessions (1st day)	● <b>Session 1 – Aquatic Biodiversity</b>
	► <b>Chair : Prof.Dr. Alper DOĞAN</b>
13:00	T1. Fish Biomass Estimation by Underwater Visual Census Method in the Foça Special Environmental Protection Area <i>Bülent Cihangir, E. Mümtaz Tıraşın, Harun Güçlüsoy, Gökhan Kaboğlu</i>
13:15	T2. Age and Growth of the Hollowsnout grenadier, <i>Coelorinchus caelorhincus</i> (Risso, 1810), in Antalya Bay (Eastern Mediterranean) <i>Merve Karakuş, E. Mümtaz Tıraşın</i>
13:30	T3. Biannual Benthic Zone Imaging of the Middle And inner parts of İzmir Bay Between Fall 2014 and Spring 2016 <i>Alper DOĞAN, Ertan DAĞLI</i>
13:45	T4. Effects of Benzylparaben on Sea Urchin <i>Arbacia lixula</i> by Embryotoxicity Test <i>Beyza Nalbantlar, Muhammet Ali Karaaslan</i>
14:00	T5. Determination of Benthic Macro-invertebrate Fauna of Bakırçay River With Some Physico-Chemical Parameters <i>Cem AYGEN, Murat ÖZBEK, Seray YILDIZ, Esat Tarık TOPKARA, Ayşe TAŞDEMİR</i>
14:15	T6. Evaluating the Effects of Perfluorooctane Sulfonyl Fluoride on Freshwater Algae Populations by Algal Growth Inhibition Test <i>Gizem Gülsever, Meltem Boyacıoğlu</i>
14:30	T7. Disruption of the Endocrine System in Crustaceans Due To Pollutant <i>A. Kerem Bakır, Muhammet Ali Karaaslan</i>
14:45	T8. Lateral Line and Caudal Fin Anomalies in Common Sole ( <i>Solea solea</i> Linnaeus, 1758) from Southern Aegean Sea <i>Hasan Cerim, Sercan Yapıcı, Özgen Yılmaz</i>
	► <b>Chair: Bahar BAYHAN</b>
15:00	T09. Fish Fauna Of The Yeniçağa Lake <i>Sercan Büyükalın, Fatih Mangit, Uğur Sü, Mustafa Korkmaz, Sedat V. Yerli</i>

15:15	T10. Mass Deaths due to Marine Mucilage in the Sea of Marmara <i>Uğur Karadurmuş , Mustafa Sarı</i>
15:30	T12. Monthly Variations of Trammel Net Catch Composition in Beymelek Lagoon, Turkey <i>Aydın Ünlüoğlu , Coşkun Menderes Aydın, Erdiñ Veske, Sencer Akalın, Gökhan Ballıkaya</i>
15:45	T13. Short-Term Effects of Different Fixatives and Storage Techniques on Morphological Parameters of Fish Species <i>Elif Bengül Yazıcı, Daniela Giannetto</i>
16:00	T14. Concentration and Potential Health Risk of Trace Metals in Non-Migratory Anchovy ( <i>Engraulis encrasicolus</i> ) Fished from the Sinop Coasts of Black Sea, Turkey <i>Bariş BAYRAKLI</i>
16:15	T15. System Analysis of Lake Prespa (Greece) with PCLake <i>Damla Coşkun , Jeroen de Klein, Valentini Maliaka</i>
16:30	T16. Investigation of Trace Metal Accumulation on Sediments of Tuna Farm Operating in Gerence Bay, Aegean Sea <i>Mehmet Aksu , Aslı Başaran</i>
16:45	T17. Assessment of Heavy Metal Pollution and Ecological Risk of Surface Sediments from Homa Lagoon (İzmir Bay) <i>Elif Çağrı Taş , Uğur Sunlu, Meral Özsüer</i>
Parallel sessions (1st day)	<ul style="list-style-type: none"> <li>● <b>Session 2 – Sustainable Aquaculture and healthy production-1</b></li> </ul>
	► <b>Chair : Prof.Dr. Haşmet ÇAĞIRGAN</b>
13:00	A1. Fish Meal Replacement by Mealworm ( <i>Tenebrio molitor</i> ) Larvae Meal in Diets for Rainbow Trout, <i>Oncorhynchus mykiss</i> <i>Ali Atilla USLU, Osman TOLGA ÖZEL, Burcu ÇELİK, Ekrem Cem ÇANKIRILIGİL, İsa COŞKUN</i>
13:15	A2. Effects of Probiotic Supplementation on Growth Performance in Juveniles of Meagre ( <i>Argyrosomus regius</i> ) <i>Güneş YAMAN YOLDAŞ, Cüneyt SUZER, İbrahim KÖSE, Onurkan ANTEPLİ, Deniz ÇOBAN, Kürşat FIRAT, Şahin SAKA</i>
13:30	A3. The Effects of Different Salinity on Survival and Growth of Juvenile Platy ( <i>Xiphophorus maculatus</i> ) <i>Dilek ŞAHİN</i>
13:45	A4. Studying of Triacylglycerol Amounts in <i>Chlorella vulgaris</i> Niva-Chl19 Using Fourier Transform Infrared Spectroscopy (FTIR) Method <i>Pınar Akdoğan ŞİRİN , Serpil SERDAR</i>
14:00	A5. The First Commercial Scaled Growth Performance Comparison of Rainbow Trout ( <i>Oncorhynchus mykiss</i> ) Culture in Concrete and Earthen Ponds <i>Özgür ALTAN</i>
14:15	A6. Potential Impacts of Covid-19 on Turkey's Aquaculture Sector and Coping Strategies <i>Hülya SAYĞI, Oğulcan Kemal SAGUN, Burcu TAYLAN, Hatice TEKOĞUL</i>
14:30	A7. Soft-Shell Crab Farming <i>Berk SUCUKÇU , Halil ŞEN</i>
	► <b>Chair: Prof.Dr. Cüneyt SÜZER</b>
15:00	A9. Vaccination Injuries <i>Haşmet ÇAĞIRGAN , Yusuf Yaşar YILDIRIM, Mahmut Hüdayi ÇAĞIRGAN, Uğur DEĞİRMENCİ, Egemen NEMLİ, Hülya SAYĞI</i>
15:15	A10. Trends and Opportunities in Seaweed Aquaculture in Turkey and Introduction of International Cooperation Projects between Ege (Turkey) and Furg (Brazil) Universities and EU H2020 Cost Action "Ca20106" <i>Gamze TURAN</i>
15:30	A11. Up-To-Date Seaweed Aquaculture Study Results at Ege University Fisheries Faculty Aquaculture Department <i>Gamze TURAN</i>
15:45	A12. Sequence-Related Amplified Polymorphism (Srap) Marker System: An Applicable Method for Studies on Invasion Genetics of Freshwater Fish <i>Sevan AĞDAMAR</i>
16:00	A13. Bacterial Diseases and Use of Antibiotics in Shrimp Cultivation in the Philippines <i>Albaris B. Tahiluddin , Ertugrul Terzi</i>
16:15	A14. Investigation of <i>Hysterothylacium</i> Species in Various Fish Species Caught from the Aegean and the Mediterranean Sea Coasts of Turkey <i>Neslihan SURSAL , Emrah ŞİMŞEK</i>

16:30	A15. Effects of the Differences of Dietary Protein Concentrates on the Growth of Nile Tilapia Fry ( <i>Oreochromis niloticus</i> ) EL-NOUMAN, B.A., <b>EGBAL, O.A.</b> , SANA, Y.A., AHMED, E.A., OSMAN, A.A.	
16:45	A16. Determination of Anesthetic Effect of Clove Oil and Phenoxyethanol in Jewel Cichlid ( <i>Hemichromis guttatus</i> ) Fish Müge Aliye Hekimoğlu, Fulay Zağralı, <b>Fatih Güleç</b>	
08/09/2021 (2nd day) Parallel sessions	<ul style="list-style-type: none"> <li>● <b>Session 3- Fisheries Technology and Sustainable Management</b></li> </ul>	
	► <b>Chair : Prof.Dr. Vahdet ÜNAL</b>	
9:00	F1. Artificial Reef Applications for Diving Tourism in Turkey <b>Aytaç Özgül</b> , Altan Lök	
9:15	F2. Changes of Socio-Economic and Catch Characteristics of the Trawl Fishery over the Years: Case of Foça, Central Aegean, Turkey Vahdet Ünal, <b>Fikret Öndes</b>	
9:30	F3. Survey of the Contribution of Sea Cage Farms to Biodiversity <b>Ali ULAŞ</b> , Serpil SERDAR, Şükrü YILDIRIM, Gamze TURAN	
9:45	F4. Save the Bay: A Case Study of Fisheries Co-Management in Gökova Bay, Turkey <b>Utku Kuran</b>	
10:00	F5. The Photonic Sensor Application as an in-Situ Sensor System for Sea Cucumber Tanks Adnan TOKAÇ, <b>Enis N. KOSTAK</b> , Mustafa Tolga TOLON, Christoph STREHSE, Sascha KOSLECK	
10:15	F6. Investigation of Fishing Gears Used to Removal of the Invasive <i>Pterois miles</i> from Turkish Seas <b>Seren EMİRMUSTAFAOĞLU</b> , Zafer TOSUNOĞLU, Ali ULAŞ, M. Hakan KAYKAÇ	F
10:30	F7. What If One of the Actors Doesn't Play Its Role in Fisheries Management Process? A Case of Small-Scale Fishery in Gökova Bay, Turkey <b>Vahdet ÜNAL</b>	
10:45	F8. Artisanal Fisheries in the Foça Special Environmental Protection Area <b>E. Mümtaz Tıraşın</b> , Bülent Cihangir, Ezgi Saydam, Betül Bardakçı Şener, Harun Güçlüsoy, Gökhan Kaboğlu	
11:00	F9. Perception of Employability in Fishery Cooperatives Among Undergraduate Students of Faculty of Fisheries <b>Huriye Göncüoğlu BODUR</b>	
11:15	F10. Highlights of the Occupational Safety in Turkish Fisheries <b>Ozan SOYKAN</b>	
11:30	F11. Morphometry of Striped Venus Clam ( <i>Chamelea gallina</i> L., 1753) in Western Black Sea Nil Pembe Özer, <b>Merve Kaplan</b>	
11:45	Break	
08/09/2021 (2nd day) Parallel sessions	<ul style="list-style-type: none"> <li>● <b>Session 4 – Sustainable Aquaculture and healthy production-2</b></li> </ul>	
	► <b>Chair : Prof.Dr. Aysun KOP</b>	
9:00	A17. Effects of Probiotic Supplementation on Growth Performance in Juveniles of Gilthead Sea Bream ( <i>Sparus aurata</i> ) <b>İbrahim KÖSE</b> , Cüneyt SUZER, Onurkan ANTEPLİ, Umut TURUPLU, Kürşat FIRAT, Şahin SAKA	
9:15	A18. Effect of Different Protein Sources on Protease Activity of Doctor Fish, <i>Garra rufa</i> (Heckel, 1843) Birsen Turunç MEŞE, İsmail ERBATUR, <b>Kaya GÖKÇEK</b>	
9:30	A19. The Importance of Sea Cucumber in Integrated Multitrophic Aquaculture (IMTA) and Its Worldwide Applications <b>Bengi BAYOĞULLARI</b> , Mustafa Tolga TOLON	
9:45	A20. Precision Agriculture Based Modular Automation System for Monitoring and Management of Microalgal Culture <b>Doğukan PARLAK</b> , Nilsun DEMİR, Abdullah BEYAZ, Tolga COŞKUN	
10:00	A21. Some Parasites of Chub <i>Squalius cephalus</i> (L., 1758) Collected from a Stream System in Kocaeli <b>Sevilay OKKAY</b> , Ahmet ÖZER	
10:15	A22. The Culture Possibilities of Bearded Horse Mussel <i>Modiolus barbatus</i> in the Erdek Bay-Marmara Sea, Turkey <b>Serpil Serdar</b> , Şükrü Yıldırım, Ali Ulaş	
10:30	A23. Turkey's Foreign Trade of Fisheries Commodities: Past, Present and Future	A

	<i>Deniz Günay , Dilek Emiroğlu</i>
10:45	A24. The Effects of Oxidized Fish Oil on Growth Performance and Feed Conversion of Nile Tilapia ( <i>Oreochromis niloticus</i> ) Fingerlings <i>Sana YAGOUB ABDALLAH TAHİR , Aysun KOP, Kutsal GAMSIZ, Ali Yıldırım KORKUT, Melike PERVİN</i>
11:00	A25. Use of Alternative Protein Sources in Aquaculture Feeds <i>Rahimeh TOYNEGLI , Ali Yıldırım KORKUT, Kutsal GAMSIZ, Aysun KOP</i>
11:15	A26. Effects of Glycyrrhizic Acid Supplementation on Growth Performance in Juveniles of Meagre ( <i>Argyrosomus regius</i> ) <i>Onurkan ANTEPLİ , Cüneyt SUZER, İbrahim KÖSE, Müge HEKİMOĞLU, Şahin SAKA, Kürşat FIRAT, Osman ÖZDEN</i>
11:30	A27. Evaluation of Spat Settlement of Black Mussel ( <i>Mytilus galloprovincialis</i> ) in Summer Season Using by Kriging Method in Arcgis Spatial Analyst <i>Erdem ÖZSOY , Serpil SERDAR</i>
11:45	A28. Occupational Health, Safety and Current Legislations and Regulations in Aquaculture <i>Fatih PERÇİN</i>
12:00	A29. Identification Of Two Novel Single Nucleotide Polymorphisms (SNPs) Of Myostatin (MSTN) Gene In European Sea Bass ( <i>Dicentrarchus labrax</i> , L.) <i>Emel Özcan Gökçek , Raziye Işık, Bilge Karahan, Kutsal Gamsız</i>
12:15	A30. Determination of Antibody Levels in Polyvalent Vaccine Application for Rainbow Trout, ( <i>Oncorhynchus mykiss</i> W,1792) <i>Pınar YILDIRIM , Ayşegül KUBİLAY</i>

08/09/2021  
(2nd day)  
Parallel  
sessions

● **Session 5- Advanced processing technologies and impact on the quality of seafood products**

► **Chair : Prof.Dr. Şükran ÇAKLI**

13:00	P1. Microstructural and Biochemical Changes on <i>Holothuria tubulosa</i> Collagens After Hydrolyzation Process <i>İbrahim Ender KÜNLİ</i>
13:15	P2. Quality of Pasta Fortified with Shrimp By-Products Flour <i>Aslı Cadun YÜNLÜ , Ömer Alper ERDEM, Evren Burcu ŞEN YILMAZ</i>
13:30	P3. Marination of the Rainbow Trout Fillets ( <i>Oncorhynchus mykiss</i> ) with Kefir <i>Berna KILINÇ, Bülent KAFA, Fevziye Nihan BULAT</i>
13:45	P4. Determination of Quality Parameters of Pastry with Anchovies <i>Ayşe KARA , Emine GÜNEŞ, Elif SARI, Orhan KOBYA, Barış KARSLI, Emre ÇAĞLAK, Özen Yusuf ÖĞRETMEN, Fatma DELİHASAN SONAY</i>
14:00	P5. Traditional Fish Processing Techniques Applied in the Philippines and Turkey <i>Albaris B. TAHILUDDIN , Ali Eslam KADAK</i>
14:15	P6. Effect of Seasons on Biochemical Composition and Collagen Level of <i>Holothuria (Roweothuria) poli</i> <i>İbrahim Ender KÜNLİ</i>
14:30	P7. Determination of Physical Quality Characteristics of Turkish Ravioli with Anchovy <i>Orhan KOBYA , Elif SARI, Ayşe KARA, Emine GÜNEŞ, Fatma DELİHASAN SONAY, Barış KARSLI, Emre ÇAĞLAK, Özen Yusuf ÖĞRETMEN</i>
14:45	P8. Detection of the Presence of <i>Listeria monocytogenes</i> in Fish Retail Sales Areas <i>E. Burcu Şen Yılmaz</i>
15:00	P9. Effects of Modified Atmosphere Packaging on the Storage Period of Stuffed Mussels <i>Ömer Alper ERDEM , Evren Burcu ŞEN YILMAZ, Mehmet Tolga DİNÇER</i>
15:15	P10. The Effects of Mucilage on the Human Health and Fishery Products <i>Berna KILINÇ, Ecem ÖZER, Nihan BULAT</i>
15:30	P11. Investigation of in vitro antimicrobial activity of garlic extract against two important food-borne pathogen bacteria. <i>Hatice YAZGAN , Esmeray KULEY, Yeşim ÖZOĞUL, Yılmaz UÇAR, Mustafa DURMUŞ</i>

08/09/2021  
(2nd day)  
Parallel  
sessions

● **Session-6 Aquatic Biodiversity - 2**

► **Chair: Prof.Dr. Murat ÖZBEK**

13:00	T18. Discrimination of Three Similar Scorpaenid Fishes with Multivariate Morphometric Analysis in the Aegean Sea <i>Salim Can AKÇINAR , Oğulcan HERAL, Bahar BAYHAN</i>
13:15	T19. A Preliminary Study on the Food Preferences of False Scad ( <i>Caranx rhonchus</i> Geoffroy Saint-Hilaire, 1817) in İzmir Bay (Aegean Sea)

13:30	T20. Investigation of Micro Plastic Uptake in Some Pelagic Fish Species in the İzmir Bay <i>Seda KIRKAN , Aslı BAŞARAN</i>
13:45	T21. Reproductive Biology of Warty Crab from the Kapıdağ Peninsula <i>Uğur KARADURMUŞ</i>
14:00	T22. Evaluating Oxidative Stress Biomarkers in Thicklip Grey Mullet ( <i>Chelon labrosus</i> ) at İzmir Bay <i>Mustafa BİLGİN , Esin ULUTURHAN, Enis DARILMAZ</i>
14:15	T23. The Increasing Risks of the Venoms of the Marine Organisms for Human Health Depending on the Global Sea Warming <i>Berna KILINÇ, Ecem ÖZER</i>
14:30	T24. Are the new Bisphenol analogues safe to use? A new findings with old method <i>Duygu TURAN, Özlem ÇAKALASLAN</i>
16:00	★ <b>Closing Session of the FABA 2021 - Common Session</b>