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Ercüment GENÇ**

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**13th International Symposium on Fisheries and Aquatic Sciences**  
**21 -23 November ANKARA/TURKEY**

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## **Dietary Bioadditives for Valuable Fish in Aquaculture**

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### **ABSTRACT**

The research is devoted to the study of the effect of the feed bioadditive from the algae suspension (chlorella and scenedesmus) on survival, growth rate and the value of the feed factor during growing of the young *Brachydanio rerio* (Buchanan), *Oncorhynchus mykiss* (Walbaum), *Acipenser ruthenus* (L.), *A. baeri* (Brandt) and *Clarias gariepinus* (Burchell). Feeds have a decisive influence on the metabolism, growth and development, the accumulation of mass and the productivity of animals. Suspension of algae, including chlorella and scenedesmus, is used as a dietary supplement in animal husbandry, poultry farming, fish farming. Using of chlorella suspension in the cultivation of *B. rerio* larvae increased the survival rate and the weight of larvae (1.75 times higher than the control). Feeding *O. mykiss* larvae with the chlorella suspension, increased survival by 10% and reduce food conversation ratio by 20.3%, compared with the control. *A. ruthenus* young that received the chlorella suspension had weight 1.77 times higher than the control. Such bioadditive increased the survival rate (20,8% higher than in the control group). The increase in the mass of two-year-old *A. baeri* using the scenedesmus suspension exceeded the control group by 12.8%, and when using the chlorella suspension - by 7.7%. At the same time, the food conversation ratio of mixed fodder with the addition of chlorella suspension was 1.05, with the addition of scenedesmus suspension - 1.06, and of the control mixed fodder - 1.24. Feeding of the *C. gariepinus* with feeds, with additive of scenedesmus suspension, increased the weight by 9.0%, and with the chlorella suspension - by 7.0% compared to the control. The food conversation ratios were: 1.14, 1.16 and 1.25, respectively. Growing of commercial sturgeon fish with the use of 10% chlorella suspension as a bio additive provided an increase in the average weight of *A. ruthenus* and *A. baeri* by 19.9% and 25.1%, respectively, which allowed saving up to 4.3 € daily. To increase the growth rate of valuable fish species and improve the quality of fish products, the living mass of worms and worm meal *Eisenia foetida* (Savigny) can be a promising high-protein bio additive.

**Keywords:** fish feeding, bioadditives, algae, mixed fodder, aquaculture

## 13<sup>th</sup> International Symposium on Fisheries and Aquatic Sciences

### SYMPOSIUM PROGRAMME

<b>DAY I</b>							
<b>Cambridge Hall</b>		Coffee Break		Lunch	<b>SESSION 1</b>	Coffee Break	<b>SESSION 2</b>
<b>Oxford Hall</b>					<b>FISH &amp; FISHERIES BIOLOGY I</b>		<b>FISH &amp; FISHERIES BIOLOGY II</b>
<b>Lincoln Hall</b>					<b>AQUACULTURE I</b>		<b>AQUACULTURE II</b>
<b>London Hall</b>	<b>OPENING CEREMONY</b>				<b>WATER QUALITY</b>		<b>BIOTECHNOLOGY &amp; GENETICS I</b>
					POSTER		POSTER
<b>DAY II</b>	<b>SESSION 3</b>		<b>SESSION 4</b>		<b>SESSION 5</b>		<b>SESSION 6</b>
<b>Cambridge Hall</b>	<b>AQUATIC BIOLOGY I</b>	Coffee Break	<b>AQUATIC BIOLOGY II</b>	Lunch	<b>AQUATIC BIOLOGY III</b>	Coffee Break	<b>AQUATIC BIOLOGY IV</b>
<b>Oxford Hall</b>	<b>AQUACULTURE III</b>		<b>FISH &amp; FISHERIES BIOLOGY III</b>		<b>FISH &amp; FISHERIES BIOLOGY IV</b>		<b>AQUATIC BIOLOGY V</b>
<b>Lincoln Hall</b>	<b>BIOTECHNOLOGY &amp; GENETICS II</b>		<b>BIOTECHNOLOGY &amp; GENETICS III</b>		<b>FISH &amp; FISHERIES BIOLOGY V</b>		<b>FISH PROCESSING</b>
<b>London Hall</b>	POSTER		POSTER		POSTER		POSTER
<b>DAY III</b>							
<b>SIGHTSEEING TOURS</b>							

### OPENING CEREMONY

10:00	Welcome speech Prof. Dr. Ercüment GENÇ - Symposium Chair
10:15	Assoc. Prof. Dr. İlhan AYDIN - General Directorate of Agricultural Research and Policies – Vice General Director Status of World Aquatic Genetic Resources and What We Expect from National Gene Bank of Turkey
10:30	Dr. M. Altuğ ATALAY – General Directorate of Fisheries and Aquaculture – General Director Fisheries in Turkey – Türkiye Balıkçılığı
10:45	Coffee Break
11:15	Prof. Dr. Mustafa KURU Pioneers of Hydrobiology in Turkey in the first half of 20 <sup>th</sup> century
11:45	Prof. Dr. Dušan PALIĆ, Dipl. ECAAH Aquatic Animal Health Biosecurity Approaches: National and International Strategies to Improve Disease Control, Prevention and Possible Eradication
12:30	Lunch
13:30-17:00	First day's presentations
19:30	Gala diner

DAY 1 - 21 November 2018		DAY 1 - 21 November 2018	
CAMBRIDGE HALL - FISH & FISHERIES BIOLOGY I		CAMBRIDGE HALL - FISH & FISHERIES BIOLOGY II	
SESSION 1 Oral presentation		SESSION 2 Oral presentation	
Hour	Chairman: Prof. Dr. Zafer TOSUNOĞLU	Hour	Chairman: Prof. Dr. Cemal TURAN
13:30	OP068 Catch Composition of Non-Indigenous Species by Gill and Trammel Net Fishery in The Mediterranean Coast of Turkey Mevlüt GÜRLEK, Cemal TURAN, Deniz YAĞLIOĞLU	15:30	OP074 A Preliminary Field Investigation on Trophic Interactions and Consequent Impact of the Non-Native Fish <i>Pseudorasbora parva</i> in a Temperate Stream Ali Serhan TARKAN, Uğur KARAKUŞ, Nildenz TOP, Nurbanu PARTAL, Şükran YALÇIN-OZDİLEK
13:45	OP054 Venomous and Sting Non-Indigenous Species in the Mediterranean Cemal TURAN, Necdet UYGUR	15:45	OP009 Landing Characteristics of İzmir Bay Purse Seine Fishery Zafer TOSUNOĞLU, Gülnur METİN, Celalettin AYDIN, M. Hakan KAYKAÇ, F. Ozan DÜZBASTILAR
14:00	OP034 Length-Weight Relationship in Common Pandora ( <i>Pagellus erythrinus</i> Linnaeus 1758) in Antalya Bay Süleyman ÖZTÜRK, İsmail DAL, Süleyman SARIGÖZ, C. Menderes AYDIN, Serkan ERKAN, Meltem BUĞDAYCI KANLI, E. Mümtaz TRAŞIN	16:00	OP102 The European Eel ( <i>Anguilla anguilla</i> ) Fishing in Coastal Lagoons Along the Aegean Coast of Turkey M. Hakan KAYKAÇ, Zafer TOSUNOĞLU
14:15	OP109 Consumer Preferences Regarding the Crustaceans Consumption in City of Kilis City Erkan UĞURLU, Gülnaz ÖZCAN, Önder DUYSAK, Tahir ÖZCAN	16:15	OP111 Development of Fish Integrated Biological Index of Turkey (FIBI-TR) for Susurluk Basin Mustafa KORKMAZ, Fatih MANGIT, Sedat V. YERLİ
14:45	OP093 Relationship of Otolith Size to Total Length of the Tigris Scraper, <i>Capoeta umbla</i> (Heckel, 1843) in Tigris River, Şırnak, Turkey Muhammed Yaşar DÖRTBUDAK, Gülnaz ÖZCAN	16:30	
15:00	OP111 Otolith Size and Fish Standard Length of the Mossul Bleak ( <i>Alburnus mossulensis</i> Heckel, 1843) In Tigris River, Şırnak Muhammed Yaşar DÖRTBUDAK, Gülnaz ÖZCAN	16:45	OP073 Feeding Ecology of a Potentially Invasive Ponto-Caspian Goby in Natural Lakes Within Their Native Range Ali Serhan TARKAN, N. TOP, U. KARAKUŞ, E.G. TEPEKÖY
15:15	Coffee break	17:00	OP038 Comparison of Otolith Morphology of Invasive Big-Scale Sand Smelt ( <i>Atherina boyeri</i> Risso, 1810) from Natural and Artificial Lakes in Turkey Serdar YEDİER, Derya BOSTANCI, Seda KONTAŞ, Gülşah KURUCU, Meral APAYDIN YAĞCI, Nazmi POLAT

DAY 1 - 21 November 2018		DAY 1 - 21 November 2018	
OXFORD HALL - AQUACULTURE I		OXFORD HALL - AQUACULTURE II	
SESSION 1 Oral presentation		SESSION 2 Oral presentation	
Hour	Chairmen: Prof. Dr. Ayşegül KUBİLAY Assist. Prof. Dr. Gülşen ULUKÖY	Hour	Chairman: Prof. Dr. Öznur DİLER
13:30	OP055 Ectoparasites of Sea Bass and Sea Bream Mariculture in Turkey Hijran YAVUZCAN YILDIZ, Özge OTGUCUOĞLU	15:30	
13:45	OP018 Bacterial Biofilm Formation in Common Dentex ( <i>Dentex dentex</i> ) Hatchery Tanks Emre TURGAY, Süheyla KARATAŞ	15:45	OP070 Protective Effect of Engineered Clinoptilolite (Minazel®) In Fish Exposed to Mycotoxins and Challenged with Infectious Disease Nemanja TODORVIĆ, Marko VASILJEVIĆ, Dušan PALIĆ
14:00	OP048 Apparent Digestibility of Nutrients of Some Microbial Raw Materials and Selected Ingredients for Rainbow Trout, <i>Oncorhynchus mykiss</i> Hüseyin SEVGİLİ, Soner SEZEN, Adil YILAYAZ, Özgür AKTAŞ, Faruk PAK, Inga. M. AASEN, Kjell Inge REITAN, Michael SANDMANN, Matilde Skogen CHAUTON, Xinxin WANG, Gamze TURAN, Mahir KANYILMAZ	16:00	OP100 Job Satisfaction and Occupational Health and Safety Levels of Qualified Employees in Aquaculture Sector K. Gökhan KURTAR, Mahmut Ali GÖKÇE
14:15	OP058 Mandarin ( <i>Citrus reticulata</i> ) peel essential oil and its effects on growth performance and some blood parameters in Rainbow trout ( <i>Oncorhynchus mykiss</i> ) Ümit ACAR, Osman Sabri KESBİC	16:15	
14:30	OP076 Effect of Different Protein Sources on Protease Activity of European Catfish, <i>Silurus glanis</i> Linnaeus 1758, Juvenile Kaya GÖKÇEK, Tamás SZABÓ, Béla URBÁNYI, İsmail ERBATUR, Hüseyin SEVGİLİ, Mahir KANYILMAZ	16:30	
14:45	OP056 Effect of Zeolite and Bentonite on Removal of Ammonia in Freshwater Dilek ŞAHİN, Meryem ÖZ, Eda SERTAŞI, Ünal ÖZ, Zafer KARSLI, Orhan ARAL	16:45	OP080 Myxosporean and Actinosporean Alternate Stages in The Life Cycle of Myxozoan Parasites (Cnidaria) Ahmet ÖZER, Sevilay OKKAY
15:00		17:00	
15:15	Coffee Break		

DAY 1 - 21 November 2018		DAY 1 - 21 November 2018	
LINCOLN HALL - WATER QUALITY		LINCOLN HALL - BIOTECHNOLOGY & GENETICS I	
SESSION 1 Oral presentation		SESSION 2 Oral presentation	
Hour	Chairman: Prof. Dr. Bülent CİHANGİR	Hour	Chairman: Prof. Dr. Süheyla KARATAŞ
13:30	Expert Hümeyra BAĞÇECİ -General Directorate of Water Manag. Projects of General Directorate of Water Management in the recent years	15:30	OP116 Molecular Diagnostic Kit for Rainbow Trout Pathogens İfakat Tülay ÇAĞATAY
13:45	OP099 High Diversity of Microcystins in A <i>Microcystis aeruginosa</i> Isolate from Lake Ulubat Mete YILMAZ, A. J. FOSS, C. O. MILES, M. ÖZEN, M. BALCI, N. DEMİR, D. G. BEACH	15:45	OP072 First Molecular Data on <i>Myxobolus episcumalis</i> (Myxozoa: Myxosporae) Infecting the Scale of Grey Mullet ( <i>Mugil cephalus</i> ) Off the Turkish Black Sea Coasts Emrah ŞİMSEK
14:00	OP094 Ecological Status of Ulubat Lake: Phytoplankton as a Biological Quality Element Nilsun DEMİR, M. YILMAZ, M. BALCI, T. COŞKUN, M. ÖZEN	16:00	OP104 The Identification and Characterization of Transcription Factors in Teleost Genomes Vahap ELDEM

14:15	OP088 Preliminary Findings in Adıgüzel Dam Lake Water Quality: Assessment of In-Situ Measurements <u>Cafer BULUT, A. FIDAN, S. SAVAŞER, M. PAZAR, A. MAMAĞ, Ş. ÇINAR, B. EMRE, F. PAK, Ö. AKTAŞ</u>	16:15	OP105 The Comprehensive Characterization of Segmental Duplication in Zebrafish Genome <u>Fatih DİKMEN, Nebahat YILDIZBAYRAK, Vahap ELDEM, Melike ERKAN</u>
14:30		16:30	OP115 Antimicrobial Activity of <i>Nannochloropsis oculata</i> Against Fish Pathogen <i>Aeromonas</i> Spp. <u>Noha Ahmed SATI, Ifakat Tülay ÇAĞATAY</u>
14:45	OP103 Accumulation of Heavy Metals in Different Tissues of <i>Astacus leptodactylus</i> from Yeniçağa Lake, Bolu Turkey <u>Seyda FİKİRDEŞİCİ ERGEN</u>	16:45	OP098 High Throughput Amplicon Sequencing for Phytoplankton Diversity and Comparison with Microscopy Results <u>Mete YILMAZ, Mihriban ÖZEN, Nilsun DEMİR, Muharrem BALCI</u>
15:00		17:00	
15:15	Coffee break		

DAY 2 - 22 November 2018		DAY 2 - 22 November 2018	
CAMBRIDGE HALL – AQUATIC BIOLOGY I		CAMBRIDGE HALL – AQUATIC BIOLOGY II	
SESSION 3 Oral presentation		SESSION 4 Oral presentation	
Hour	Chairman: Prof. Dr. Nilsun DEMİR	Hour	Chairman: Prof. Dr. Naime ARSLAN
09:00	OP077 Hirudinea Fauna of the Wetlands in Isparta Province, Turkey <u>Mustafa CEYLAN, İsmail ERBATUR, Ramazan KÜÇÜKKARA, Ufuk AKÇİMEN, Cafer BULUT, Mehmet CİLBİZ, Soner SAVAŞER, Turgay MEKE, Şakir ÇINAR, Deniz KARA, Naim SAĞLAM</u>	11:00	OP095 The Cultivation of Some Diatom Species Isolated from Yumurtalık Bay (Northeast Mediterranean Sea) <u>Burcu AK ÇİMEN, Oya IŞIK, Özgür BAYTUT, Sinan MAVRUK</u>
09:15	OP090 First Record of Freshwater Tardigrades (Arthrotardigrada) from Adıyaman (Turkey) <u>Çağrı TEKATLI, Serdar SÖNMEZ, Ahmet ALTINDAĞ</u>	11:15	OP039 Forensic Aquatic Entomology: Aquatic Insects of Importance to Forensic Science <u>Burcu ŞABANOĞLU</u>
09:30	OP082 Infections of <i>Hysterothylacium</i> (Nematoda) Parasites in Some Fishes Collected from Sinop Coasts of the Black Sea <u>Ahmet ÖZER, Sevilay OKKAY, Hakan ÖZKAN</u>	11:30	OP049 The Utilization of the Family Staphylinidae (Coleoptera) In Aquatic Systems <u>Senem ÖZDEMİR</u>
09:45	OP061 Zoobenthic Community Structure and Oligochaeta Fauna of Three Sub-Basin (Orhaneli, Emet and Mustafa Kemal Paşa Rivers) in Susurluk Catchment Area and Their Water Quality Based on Water Framework Directive (WFD) <u>Naime ARSLAN, Sevgi ULUKÜTÜK, Deniz MERCAN</u>	11:45	OP035 Physicochemical Observation on Hypersaline Shallow Lakes from Central Anatolia <u>Serhat ERTUĞRUL, Nazlı Deniz EYİCE, Sırma Çapar DİNÇER</u>
10:00	OP063 Water Quality Assessment of Orhaneli and Emet River <u>Naime ARSLAN, Deniz MERCAN, Sevgi ULUKÜTÜK</u>	12:00	OP024 Use of Phytoplankton Assemblage Index (Q Index) for Monitoring Water Quality of Beyşehir Lake, Konya <u>Ersin KIVRAK, Uğur SÜ, Yorgos CHATZINIKOLAOU, Fatih MANGIT, Sedat V. YERLİ</u>
10:15	OP113 Anisakis spp. infection in Atlantic mackerel ( <i>Scomber scombrus</i> ) from the Marmara Sea, Turkey <u>Gökben ÖZBAKİŞ-BECERİKLİSOY, Ceren AŞTI, Bahadır GÖNENÇ</u>	12:15	
10:30	Coffee break	12:30	Lunch

DAY 2 - 22 November 2018		DAY 2 - 22 November 2018	
CAMBRIDGE HALL – AQUATIC BIOLOGY III		CAMBRIDGE HALL - AQUATIC BIOLOGY IV	
SESSION 5 Oral presentation		SESSION 6 Oral presentation	
Hour	Chairman: Prof. Dr. Nazmi POLAT	Hour	Chairman: Prof. Dr. Ahmet ALTINDAĞ
13:30	OP083 A Faunistic Study on The Freshwater Copepoda and Cladocera (Crustacea) Species in Sinop, Giresun and Artvin Provinces (Turkey) <u>Alp ALPER, Okan KÜLKÖYLÜOĞLU, Mehmet YAVUZATMACA, Derya AKDEMİR, Nurhayat DALKIRAN</u>	15:30	OP037 The Use of Remote Sensing Data in Hydrobiology Studies; An Example from Kızılırmak Delta <u>Çağaçan KARACAOĞLU</u>
13:45	OP053 Taxonomic Studies of Tardigrada Fauna in Zonguldak Province (Turkey) <u>Duygu BERDİ, Çağrı TEKATLI, Ahmet ALTINDAĞ</u>	15:45	OP006 Economic Valuation of Ecosystems Services Kajulik's Lake Pelalawan Riau Indonesia <u>Trisla WARNINGSIH, Kusai 1, ZULKARNAIN, DARWIS, Chintika Emelia F N, Marisa HUTAGALUNG</u>
14:00	OP026 Towards to Preparing Turkish Freshwater Diatom Flora <u>Cüneyt Nadir SOLAK, Agata Zofia WOJTAŁ, Maxim KULIKOVSKIY, Teresa NOGA, Aydın KALELİ, Elif YILMAZ, Mateusz RYBAK, Łukasz PESZEK, Anita PORADOWSKA, Natalia KOCHMAN-KĘDZIORA</u>	16:00	OP021 Preliminary Spatial Study of the Shallow Marine Communities of Gökçeada Island Using Geolocal Habitat Mapping Techniques <u>Herdem ASLAN, Graham SAUNDERS, Emine Ş. OKUDAN, M. Baki YOKEŞ, Gökhan KABOĞLU, Onur GÖNÜLAL</u>
14:15	OP045 Non-Essential Heavy Metals in Mollusca Fauna from İğneada Shores of The Black Sea <u>Levent BAT, Fatih ŞAHİN</u>	16:15	OP078 A Nature Education Project: "I Recognize and Conserve Before Extinct: Medicinal Leeches" <u>Mustafa CEYLAN, Osman ÇETİNKAYA, Naim SAĞLAM, Mustafa Öner KÜÇÜK, Alamettin BAYAV</u>
14:30	OP060 Zoobenthic Community Structure and Ephemeroptera-Chironomidae Fauna of Closed-Basin Lake Van, Turkey <u>Naime ARSLAN, Nesil ERTORUN, Deniz MERCAN, Burcu BARIŞIK, Tuğba DEMİR</u>	16:30	OP028 Zooplankton Fauna of Two Streams in Hatay (Turkey) <u>Ahmet BOZKURT, Mustafa BOZÇA, Doğan KAYA</u>
14:45	OP062 Mouthpart Deformities in <i>Chironomus tentans</i> Fabricius, and Their Relevance to Habitat Characteristics <u>Naime ARSLAN, Deniz MERCAN, Cansev AKKAN KÖKÇÜ, Talha ARSLAN</u>	16:45	OP029 A Taxonomical Study on the Cladoceran Families in Eastern Provinces of Turkey <u>Ahmet BOZKURT, Münevver Ayçe GENÇ, Farah Gönül AYDIN</u>
15:00	OP046 Cadmium, Mercury and Lead in Atlantic Bonito from The Southern Black Sea Coasts <u>Levent BAT, Aysah ÖZTEKİN</u>	17:00	
15:15	Coffee break		



DAY 2 - 22 November 2018		DAY 2 - 22 November 2018	
OXFORD HALL – AQUACULTURE III		OXFORD HALL – FISH & FISHERIES BIOLOGY III	
SESSION 3 Oral presentation		SESSION 4 Oral presentation	
Hour	Chairman: Prof. Dr. Hijran YAVUZCAN YILDIZ	Hour	Chairman: Prof. Dr. Levent BAT
09:00	OP019 Effect of Soybean Meal Replacement with Fermented Water Hyacinth ( <i>Eichhornia crassipes</i> ) Leaf Meal in Diets on Growth of Juvenile River Carp ( <i>Leptobarbus hoeveni</i> ) <u>İndra SUHARMAN</u> , <u>Netti ARYANI</u> , <u>Melda TRIVELA</u>	11:00	OP050 Management Measures and Their Effectiveness on the Fisheries Management of Turkey <u>Ertuğ DÜZGÜNES</u> , <u>Hacer SAĞLAM</u>
09:15		11:15	OP118 Fishing for a Living: A Socio-Economic Assessment of Sea Snail Fishers in Turkey <u>Umut ULUKAN</u> , <u>Mustafa ZENGİN</u> , <u>İlkay ÖZCAN AKPINAR</u>
09:30	OP059 Effects of Tea Tree Oil ( <i>Melaleuca Alternifolia</i> ) on Hematological and Serum Biochemical Parameters in Simulated Transport Experiment of Common Carp <u>Sevdan YILMAZ</u> , <u>Ümit ACAR</u> , <u>Osman Sabri KESBİÇ</u>	11:30	OP004 Abundance, Composition and Seasonal Dynamics of Deep Sea Fish Larvae Around North Aegean Sea <u>Alpaslan KARA</u> , <u>Ismail Burak DABAN</u> , <u>Ahsen YÜKSEK</u>
09:45	OP066 <i>Aeromonas veronii</i> Infection in Telescope Gold Fish ( <i>Carassius auratus</i> ) in a Production Farm <u>Ahmet MEFUT</u> , <u>Ufuk OĞUZ</u> , <u>Cansu FIDAN YEŞİLTAS</u> , <u>Cemil GÜÇLÜ</u>	11:45	
10:00	OP067 In-vitro Anti-Bacterial Effect of Thymol on <i>Yersinia ruckeri</i> , A Fish Pathogen <u>Azime KÜÇÜKGÜL</u> , <u>Mustafa DÖRÜCÜ</u>	12:00	OP047 Fishing Activities of the Fishing Fleet in The Marmara Sea in Local, Regional and International Waters and Its Dynamics <u>Mustafa ZENGİN</u> , <u>Murat DAĞTEKİN</u>
10:15	OP036 The Effect of Propolis as Feed Additive on Growth Performance and Some Blood Parameters of Gilthead Sea Bream ( <i>Sparus aurata</i> (Linnaeus, 1758)) <u>Çağlayan KAPLAN</u> , <u>Fatime ERDOĞAN</u>	12:15	OP075 Age and Growth of Swallowtail Sea Perch ( <i>Anthias anthias</i> ) in Sığacık Bay (Aegean Sea) <u>Şencer AKALIN</u>
10:30	Coffee break	12:30	Lunch

DAY 2 - 22 November 2018		DAY 2 - 22 November 2018	
OXFORD HALL – FISH & FISHERIES BIOLOGY IV		OXFORD HALL – AQUATIC BIOLOGY V	
SESSION 5 Oral presentation		SESSION 6 Oral presentation	
Hour	Chairman: Prof. Dr. Ertuğ DÜZGÜNEŞ	Hour	Chairmen: Prof. Dr. Muhammed ATAMANALP Assoc. Prof. Dr. Özgür BAYTUT
13:30	OP085 Deep Sea – New Sensing Approach to Marine Environmental, Fisheries and Aquaculture Monitoring <u>Ozan SOYKAN</u> , <u>E. Yeşim ÖZKAN</u> , <u>Mustafa Tolga TOLON</u> , <u>Can ALTINELATAMAN</u> , <u>Baha BÜYÜKİŞİK</u> , <u>Anđan TOKAÇ</u>	15:30	OP119 Electrical Stunning: A Humane Anesthesia Method for Crayfish <u>Alexander ATANASOFF</u> , <u>Faik Sertel SEÇER</u> , <u>Dimitrinka ZAPRYANOVA</u>
13:45		15:45	OP013 Gonadal Anomalies in European Sea Bass ( <i>Dicentrarchus labrax</i> Linnaeus, 1758) And Common Sole ( <i>Solea solea</i> Linnaeus, 1758) From Güllük Bay, Southern Aegean Sea <u>Hasan CERİM</u> , <u>Özgen YILMAZ</u> , <u>Esin BABA</u> , <u>Gökçen BİLGE</u> , <u>Celal ATEŞ</u>
14:00	OP064 Modelling Tools for Fisheries Management <u>Burak ÖĞLÜ</u> , <u>Uendra BHELE</u> , <u>Priit BERNOTAS</u> , <u>Fabien CREMONA</u>	16:00	OP079 Some Aspects of Population Dynamics of Red Giant Shrimp <i>Aristaeomorpha foliacea</i> in Antalya Bay (Decapoda: Aristeidae) <u>Coşkun Menderes AYDIN</u> , <u>Eyüp Mümtaz TIRAŞIN</u>
14:15	OP096 Fisherman's Attitudes Toward Sustainable Fisheries in The Aegean Region of Turkey <u>Denizcan DURGÜN</u> , <u>Cihat GÜNDEEN</u> , <u>Vahdet ÜNAL</u>	16:15	OP086 Determination of Lethal Concentrations on <i>Gammarus pulex</i> (L., 1758) of Cyflutrin, Dimethoate Insectisites <u>Ayşenur AYDIN</u> , <u>Osman SERDAR</u> , <u>Rahmi AYDIN</u>
14:30	OP1010 A Study on Meat Yield of Colchic Khramulya, <i>Capoeta Sieboldii</i> in Golova Dam Lake (Sivas, Turkey) <u>Mücahit YÜNGÜL</u> , <u>H. Bayram GÖKHAN</u> , <u>Mustafa DÖRÜCÜ</u>	16:30	OP110 Do Plant Extracts Inhibit <i>Lactococcus garvieae</i> Growth In-Vitro? <u>Hijran YAVUZCAN YILDIZ</u> , <u>Quyett PHAN VAN</u>
14:45	OP108 Growth Properties of Some Fish Species Living in Bafra Balık Lakes (Lake Balık and Uzungöl, Samsun, Turkey) <u>Seda MACUN</u> , <u>Fatma Yıldız DEMİRKALP</u>	16:45	
15:00		17:00	
15:15	Coffee break	17:15	

DAY 2 - 22 November 2018		DAY 2 - 22 November 2018	
LINCOLN - BIOTECHNOLOGY & GENETICS II		LINCOLN - BIOTECHNOLOGY & GENETICS III	
SESSION 3 Oral presentation		SESSION 4 Oral presentation	
Hour	Chairman: Prof. Dr. Ahmet ÖZER	Hour	Chairman: Prof. Dr. Dušan PALIĆ
09:00	OP114 Antimicrobial Activities of Skin Mucus of Some Elasmobranch Fishes <u>Emre YEMİSKEN</u> , <u>Elif Özlem ARSLAN AYDOĞDU</u> , <u>Nihal DOĞRUÖZ GÜNGÖR</u> , <u>Nazmiye Özlem ŞANLI</u> , <u>Mert KESİKTAŞ</u> , <u>Taner YILDIZ</u>	11:00	Prof. Dr. Dušan PALIĆ  Use of new technologies in design of feed additives to control and prevent toxicoses and infectious diseases
09:15	OP101 Research on Phylogenetic Relations of <i>Wilhelmia</i> (Simuliidae: Diptera) Subgenus Species from West and Middle Anatolia Regions <u>Merve KÜÇÜKYETİM</u> , <u>Ebru Çeren FİDAN</u> , <u>Ümit ŞİRİN</u>		
09:30	OP069 Antibacterial Activity of Coconut Oil Against Fish Pathogens <u>Esin BABA</u>	11:30	OP112 Use of Erythrocytes Nucleus Alterations to Estimate Triploidy Induced by High Pressure in Rainbow Trout ( <i>Oncorhynchus mykiss</i> ) <u>Mahir KANYILMAZ</u> , <u>Meryem Cansu FIDAN YEŞİLTAS</u> , <u>Hüseyin SEVGİLİ</u> , <u>C. Kaya GÖKÇEK</u>
09:45	OP033 Application of Existing IBM (Individual-Based Model) Model Instream for Trout Population Modeling of Salmo labrax In Solaklı River <u>Reza REZAEI</u> , <u>Hatice ŞENGÜL</u> , <u>Aydın AKBULUT</u> , <u>Mustafa ZENGİN</u> , <u>İlkay ÖZCAN AKPINAR</u>	11:45	OP003 DNA Barcoding Confirmed the Occurrence of Blackchin Guitartfish, <i>Glaucostegus cemiculus</i> (Geoffroy Saint-Hilaire, 1817) in Mersin Bay, Turkey <u>Nuri BAŞUSTA</u> , <u>Emre KESKİN</u> , <u>Asiye BAŞUSTA</u> , <u>Ercüment GENÇ</u>
10:00	OP120 Scanning Electron Microscopy (SEM) Analysis of <i>Spirulina (Arthrospira) platensis</i> tablet and powder <u>Betül GÜROY</u> , <u>Mustafa İLHAN</u> , <u>Hüseyin ÇİÇEK</u>	12:00	OP065 Detection of DNA Damage in Testicular Spermatozoa of Sex-Reversed Female Rainbow Trout ( <i>Oncorhynchus mykiss</i> ) in Comparison with Normal Males



				Burak Evren İNANAN, Fevzi YILMAZ
10:15	OP106 Cytotoxic Effects of DDT and Its Metabolites on Fish Cell Cultures Pinar ARSLAN, Begüm YURDAKÖK-DİKMEN, Sanıye Cevher ÖZEREN, Özgür KUZUKIRAN, Ayhan FİLAZİ		12:15	
10:30	Coffee break		12:30	Lunch

DAY 2 - 22 November 2018		DAY 2 - 22 November 2018	
LINCOLN – FISH & FISHERIES BIOLOGY V		LINCOLN – FISH PROCESSING	
SESSION 5 Oral presentation		SESSION 6 Oral presentation	
Hour	Chairmen: Prof. Dr. Ahmet ALP	Hour	Chairmen: Prof. Dr. Ercüment GENÇ
13:30	OP057 Otolith Shape as a Morphological Approach to the Stock Identification in <i>Barbus tauricus</i> (Black Sea, Turkey) Melek ÖZPIÇAK, Semra SAYGIN, Nazmi POLAT	15:30	OP015 The Development of Instant (Dried) Sago Noodles Fortified with Functional Components DEWITA, DESMELATI, EDISON, SYAHRU
13:45	OP092 Diel Variations in Length-Frequency Distribution of Red Mullet ( <i>Mullus barbatus</i> ), Caught by Bottom-Trawl In Izmir Bay (The Eastern Aegean Sea) Aydin ÜNLÜOĞLU, Sencer AKALIN	15:45	OP097 The Effects of Orange and Lemon Essential Oil Nanoemulsions on Colour Changes in Rainbow Trout ( <i>Oncorhynchus mykiss</i> ) Fillets During Cold Storage Ali Rıza KÖŞKER
14:00	OP081 Growth Parameters of the Silverstripe Puffer Fish, <i>Lagocephalus sceleratus</i> (Gmelin, 1789) From Eastern Mediterranean Coast of Turkey Dilek TÜRKER, Kadriye ZENGİN	16:00	OP041 Development of Thyme Oil Based Storage Box with 3D Printer for Rainbow Trout ( <i>Oncorhynchus mykiss</i> , Walbaum, 1972) Preservation Emre YAVUZER
14:15	OP043 Endangered in Poland Cyprinid Fish Lake Minnow <i>Eupallasella percunurus</i> (Pallas, 1814) - Occurrence, Threats and Active Protection Measures Jacek WOLNICKI, Justyna SIKORSKA, Rafal KAMIŃSKI	16:15	OP040 Inhibition Effects of Safflower and Bitter Melon Extracts on Growth of Fish Spoilage Bacteria and Their Ammonia and Biogenic Amine Production Esmeray KÜLEY BOĞA, Mebrure Nüket YAVUZER, Emre YAVUZER, Yılmaz UÇAR
14:30	OP117 Distribution of Non-Native Fish Species in Some Part of Marmara, Aegean, Mediterranean and Central Anatolia Regions Vedat YEGEN, Rahmi UYSAL, Abdulkadir YAĞCI, Fuat BİLGİN, Soner ÇETİNKAYA, Mehmet CESUR, Hasan BOSTAN	16:30	OP089 The Effects of Nisin on the Sensory, Biochemical and Microbiological Changes of Vacuum Packed and Refrigerated Sea Bass ( <i>Dicentrarchus labrax</i> ) Fillets Yılmaz UÇAR, Fatih ÖZÖĞÜL, Mustafa DURMUŞ, Ali Rıza KÖŞKER, Yeşim ÖZÖĞÜL
14:45	OP071 A Multimetric Fish-Based Ecological Quality Assessment Tool for Wadable Rivers in Turkey Mehmet Borge ERGÖNÜL, Jan BREINE, Erica Van den BERGH	16:45	OP087 The Impact of Nanoemulsions of Mandarin and Grapefruit Essential Oils on the Color Changes of Rainbow Trout ( <i>Oncorhynchus mykiss</i> ) Fillets During Cold Storage Yılmaz UÇAR
15:00	OP051 Comparison of the Feeding Regime of the <i>Salmo trutta labrax</i> in The Marine, River and Lake Ecosystems in The Eastern Black Sea Mustafa ZENGİN, Muharrem AKSUNGUR, İlyas TABAK	17:00	OP020 Substitution Value of Salted Marine by Catch and Fish Viscera Meal Mixtures for Conventional Fishmeal in the Diet for Indonesian River Catfish ( <i>Hemibagrus nemurus</i> Valenciennes, 1840) Bustari HASAN, Tjipto LEKSONO, Indra SUHARMAN, Dian IRIANI, Zainal A. MUCHLISIN
15:15	Coffee break		

POSTER SESSION – DAY 1	
PP0001 Antibacterial Activity of Essential Oils and Extracts of Medicinal Plants Against Bacterial Fish Pathogens Seçil METİN, Nimet KARA, Behire Işıl DİDİNEN, Ayşegül KUBİLAY	PP0019 Determination of Fatty Acid Composition Sea Bream ( <i>Sparus aurata</i> L. 1758) Cultured in Net Cages in Central Black Sea Region Dilara KAYA ÖZTÜRK, Recep ÖZTÜRK, Birol BAKI, İsmihan KARAYÜCEL, Sedat KARAYÜCEL
PP0002 Antibacterial Activity of Essential Oil of <i>Mentha suaveolens</i> Against Bacterial Fish Pathogens Seçil METİN, Behire Işıl DİDİNEN, İsa TELCİ, Öznur DİLER	PP0020 Length-Weight Relationship of Four Deep-Water Shark Species from The Gulf of Antalya Mustafa Tunca OLGUNER, Mehmet Cengiz DEVAL
PP0003 Determination of Fecundity of <i>Astacus leptodactylus</i> Under Culture Conditions Gülşen UZUN GÖREN, Sedat KARAYÜCEL, Birol BAKI	PP0021 Acinetobacter Spp.: A New Treat Multidrug Resistant Bacteria on The Aquaculture Aysu BESLER, Gülşen ULUKÖY
PP0004 Dietary Bioadditives for Valuable Fish in Aquaculture Tamara KAZLOVA, Vitold PESTIS, Aliaksandr KAZLOU, Svetlana MAKSIMOVA, Nataliya DZMITROVICH, Yauheni NESTSIARUK	PP0022 The Effect of External Phosphorus Loads on Deep Lake of Tortum Özden FAKIOĞLU, Alper NUHOĞLU, M. Nizamettin EĞERCİOĞLU, Çiğdem ACAR
PP0005 Estimation Method of Round Goby Natural Mortality Rates Depending on Fish Length Veniamin ZAMOROV, Yevhen LEONCHYK, Mariya ZAMOROVA, Natalia MATVİENKO, Alina SHALUKHINA	PP0023 Extracorporeal Predigestion of a Dry Feed for Juvenile Cyprinids Reared Under Controlled Conditions Rafal KAMIŃSKI, Justyna SIKORSKA, Jacek WOLNICKI
PP0006 Determination of Metal Levels in Water, Sediment and Tissues of <i>Capoeta umbla</i> (Heckel, 1843) Inhabiting Karasu River (Erzincan) Teoman Özgür SÖKMEN, Muharrem GÜNEŞ, Muammer KIRICI	PP0024 Effect of Water Temperature on Crucian Carp, <i>Carassius carassius</i> , Growth and Haematology Justyna SIKORSKA, Elżbieta KONDERA, Jacek WOLNICKI, Rafal KAMIŃSKI, Katarzyna ŁUGOWSKA, Małgorzata WITESKA
PP0007 Fish Consumption Trends, Sinop Province Sample Şennan YÜCEL, Birol BAKI, Bünyamin KÜÇÜKKÖŞKER	PP0025 Sous Vide Technology Burcu BOZOVA, Levent İZCİ
PP0008 The Investigation of Anchovy Population ( <i>Engraulis encrasicolus</i> L. 1758) in Eastern Black Sea in terms of Fishery Biology in 2010-2011 Fishing Season Salih İLHAN, Kadir SEYHAN	PP0026 Use of Nematodes for Culture of Altricial Fish Larvae Özlem UĞURLU, Umur ÖNAL
PP0040 Influence of Depuration on Fatty Acid Composition of Warty Venus ( <i>Venus verrucosa</i> ) Emre ÇAĞLAK, Barış KARSLI, Serkan KORAL, Özen Yusuf ÖGRETMEN	PP0027 Length Based Stock Assessment of <i>Capoeta antalyensis</i> (Battalgil, 1943) With TropFishR in Karacaören-I Dam Lake (Burdur-Turkey) Mehmet ÇİLBİZ, F. Banu YALIM
PP0010 An Investigation on the Benthic Diatom Flora of the Manavgat River Antalya, Turkey Cüneyt Nadir SOLAK, Anıl Barış ATABAY	PP0028 Antibiotic Susceptibility of <i>Vibrio</i> Sp. Isolated from Cultured Sea Bream ( <i>Sparus aurata</i> ) and Sea Bass ( <i>Dicentrarchus labrax</i> ) in Turkey Öznur DİLER, Öznur GÖRMEZ
PP0011 Mofette Spring – Unusual Environment for Microbial Life on the Example of Diatoms	PP0029 The Effect of Different Photoperiods on The Growth and Survival of Narrow-Clawed Crayfish ( <i>Astacus leptodactylus</i> , Esch., 1823) Juveniles

Teresa NOGA, Mateusz RYBAK, Łukasz PESZEK, Anita PORADOWSKA, Natalia KOCHMAN-KĘDZIORA, Cüneyt SOLAK	Kamile Gonca EROL, Remziye ÖZKÖK, Behire Işıl DİDİNEN, Seval BAHADIR KOCA, Şakir ÇINAR
PP0012 Length Weight Relationships for <i>Alburnoides fasciatus</i> and <i>Alburnoides manyasensis</i> in Turkey İlkay HÜYÜKLÜ, Sedat V. YERLİ	PP0056 Bacterial Histamine Production in Fish and Fishery Products Berna KILINÇ, Şengül BİLGİN
PP0013 The Characteristics of Two Successful Invaders of the Black Sea: <i>Rapana venosa</i> and <i>Anadara inaequalis</i> Nazlı KASAPOĞLU	PP0031 The Status of <i>Artemia</i> Population in The Tuz Lake (Central Anatolia, Turkey) Göktaş YOKUŞ, Mine KIRKAĞAÇ
PP 0095 A Case Study on Nephrocalcinosis in Sea Bass ( <i>Dicentrarchus labrax</i> ) Hasan KÖSTEKÇİ, Tayfun YÜKSEL, Hijran YAVUZCAN YILDIZ	PP0033 The Relationships Between Otolith Dimensions-Total Length of Crimean Barbel ( <i>Barbus tauricus</i> Kessler, 1877) Sampled from Coastal Streams of Black Sea (Turkey) Semra SAYGIN, Melek ÖZPİÇAK, Nazmi POLAT
PP0015 Eustrongylidosis of Piscivorous Fishes of the Kaniv Reservoir (Dnipro River, Ukraine) Natalia MATVIHENKO, Alexander DIDENKO, Andriy VASHCHENKO	PP0036 Organically Modified Clinoptilolite (Minazel Plus®) Feed Additive Improves Health and Performance In Cultured Nile Tilapia Nemanja TODOROVIĆ, Marko VASILJEVIĆ, Eman Zahran EL-NAGGAR, Dušan PALIĆ
PP0016 Genetic Analysis of the Ukrainian Population of Brown Trout ( <i>Salmo trutta morfa fario</i> ) Using Microsatellites Zaloilo OLGA, Mruk ANTONINA, Haloian LARYSA, Zaloilo IGOR	PP0037 Emerging Diseases in Rainbow Trout Gülşen ULUKÖY, Ayşegül KUBİLAY
PP0018 Amino Acid Composition Related to Growth Performance of Gilthead Sea Bream ( <i>Sparus aurata</i> L. 1758) Monoculture Cultivation in The Black Sea Dilara KAYA ÖZTÜRK, Recep ÖZTÜRK, Birol BAKI, İsmihan KARAYÜCEL, Sedat KARAYÜCEL	PP0038 Dominant Bacteria Coexisting with <i>Artemia</i> Nauplii Exposed to <i>Zostera</i> Spp. Extracts Sevgi KAYNAR, Hijran YAVUZCAN YILDIZ
PP0039 Antimicrobial Effect of Different Method Extracts of Orange and Pomegranate Peels on <i>Escherichia coli</i> and <i>Staphylococcus aureus</i> Barış KARSLI, Emre ÇAĞLAK, Özen Yusuf ÖĞRETMEN, Büşra KARA	PP0032 Cyprinid Fishes of Tigris-Euphrates Basin Hamed MOUSAVI-SABET, Sedat V. YERLİ, Saber VATANDOUST, Mustafa KORKMAZ, Fatih MANGIT

POSTER SESSION – DAY II	
PP0034 Investigation of Water and Sediment Quality in The Bakırçay and Gediz River Deltaic Zones Aslı BAŞARAN, Mehmet AKSU	PP0058 Biopreservation of Seafood Products Using Lactic Acid Bacteria and Their Metabolites Esmeray KÜLEY BOĞA, Ali Serhat ÖZKÜTÜK
PP0035 The Phytoremediation Potential of Water Lettuce <i>Pistia stratiotes</i> Exposed to Cadmium and Lead Danial NASSOUHI, Mehmet Borca ERGÖNÜL, Sibel ATASAĞUN	PP0059 Biosensor Applications for Monitorization of Environmental Pollutants and Biohazard in Marine Environment Yağmur TURGUT, Mehmet Altay ÜNAL, Begüm YURDAKÖK-DİKMEN
PP0041 The Effects of Different Culture Techniques and Light Intensities on Growth and Survival Rates in Meagre Larvae ( <i>Argyrosomus regius</i> Asso, 1801) Adem KURTOĞLU, İsa AYDIN, Durali ERASLAN, Abdullah DEMİR, Serap GELİBOLU GÜLER	PP0060 Otolith Biometry-Body Length Relationships in <i>Lesueurigobius friesii</i> (Malm, 1874) from Izmir Bay Dilek İLHAN, Sencer AKALIN
PP0042 Evaluation with National and International Standards of Heavy Metal Levels Fisheries Samples in Eğirdir Lake Cafer BULUT, Ayşegül KUBİLAY	PP0061 Some Biological Properties of Swallowtail Seaperch ( <i>Anthias anthias</i> (Linnaeus, 1758)) in Sığacı Bay (Aegean Sea) Sencer AKALIN, Murat KAYA, Tuncay M. SEVER, Esat T. TOPKARA, Erhan IRMAK, S. Can AKÇINAR, Dilek İLHAN, Ali İLHAN
PP0043 Carapace Length-Weight Relationships of <i>Parapenaeus longirostris</i> and <i>Aristeus antennatus</i> in Antalya Bay Coşkun Menderes AYDIN, Eyüp Mümtaz TIRAŞIN, İsmail DAL, Aydın ÜNLÜOĞLU	PP0062 Epiphytic Diatom Species of Lake Abant Tolga COŞKUN, Nilsun DEMİR
PP0044 Some Biological Features of The Salema Fish ( <i>Sarpa salpa</i> (Linnaeus, 1758)) Population Which Distribution in The Edremit Bay, Aegean Sea Dilek TÜRKER, Kadriye ZENGİN, Gökhan KIZILYÜCE, Habib BAL	PP0063 The Combined Impact of Nisin and Vacuum Packing on the Fatty Acid Profiles of Sea Bass ( <i>Dicentrarchus labrax</i> ) Fillets During Storage Yılmaz UÇAR, Fatih ÖZOĞUL, Mustafa DURMUŞ, Ali Rıza KÖŞKER, Yeşim ÖZOĞUL
PP0045 Seafood in Catering Technology Nilgün GÜNERİ, Kübra ERYAŞAR, Bayram KÖSTEKLİ	PP0064 The Status of Commercial Marine Fisheries in Balıkesir, Turkey Abdülkadir ÜNAL, Dilek TÜRKER, Kadriye ZENGİN
PP0046 Microplastic Pollution in Mussels ( <i>Mytilus galloprovincialis</i> ) Collected from The Aegean Sea and Marmara Sea Mehmet AKSU, Aslı BAŞARAN	PP0065 Are Small Scale Fishers Native Users of Marine Living Resources: A Sociodemographic Data Linkage Denizcan DURGUN, Cihat GÜNDEN, Vahdet ÜNAL
PP0047 Insects in Rainbow Trout ( <i>Oncorhynchus mykiss</i> ) Feed: Effect on Growth, Fatty Acid Composition and Sensory Attributes Jan TUREK, Sabine SAMPÉLS, Sarvenaz Khalili TILAMI, Daniel ČERVENÝ, Jitka KOLÁŘOVÁ, Tomáš RANDÁK, Jan MRÁZ, Jan MÁŠILKO, Christoph STEINBACH, Viktoria BURKINA, Pavel KOZÁK, Vladimír ŽLÁBEK	PP0067 Use Of RT-qPCR Method in Fish Health Canan ÖNTAŞ, Esin BABA
PP0048 Evaluation of Freshwater Fisheries and Aquaculture Production in Aegean Region of Turkey: 1990-2017 Hatice TEKOĞUL, Burcu TAYLAN, Hülya SAYGI, Aysun KOP, Sükrü Senol PARUĞ	PP0068 Determination of Physicochemical Parameters Affecting the Population Size of <i>Fabrea salina</i> (Ciliophora: Heterotrichida) Nazlı Deniz EYİCE, Serhat ERTUĞRUL, Sırma ÇAPAR DİNÇER
PP0049 Marine Fish Production in The Aegean Region Between 1990 And 2017 Burcu TAYLAN, Hatice TEKOĞUL, Hülya SAYGI, Sükrü Senol PARUĞ	PP0069 Effects of PAHs On Male Fish Reproductive System İrem ŞAHİN, Begüm YURDAKÖK-DİKMEN, Sinem ŞENTÜRK
PP0050 New Locality for Lernaea Cyprinacea (Copepoda; Lernaecidae) in Turkey İsmail ERBATUR, Abdülkadir YAĞCI, Ahmet ÖKTENER, Ufuk AKÇİMEN	PP0070 Aquatic Environmental Monitoring with P-Glycoprotein Pınar ARSLAN, Saniye Cevher ÖZEREN, Begüm YURDAKÖK-DİKMEN
PP0051 Effects of Using as Feed Additive Microbial Phytase in Rainbow Trout Feeds İsmail Berat ÇANTAŞ, Önder YILDIRIM	PP0071 Antimicrobial Peptides in Aquaculture Anıl YILMAZ, Begüm YURDAKÖK-DİKMEN
PP0052 Investigation of Al, B, Co, Fe, Mo, Rb, Sb, Sn And Sr Levels in Water and Sediment Samples of Eğirdir Lake Cafer BULUT, Ayşegül KUBİLAY	PP0072 Heavy Metal Pollution in Aquatic Environment Muhammet Haydar UYSAL, Anıl YILMAZ, Ali BİLGİLİ
PP0053 Seasonal Investigation of Marine Litter on Beaches of Urla (İzmir/Türkiye) Zeynep GÜNGÖREN, Aslı BAŞARAN	PP0075 Inactivation of Fish Pathogen, <i>Lactococcus garvieae</i> by Carbon Nanotubes Hijran YAVUZCAN YILDIZ, Quyet PHAN VAN, Ömer ABDELBAGİ, Sonay SÖZÜDOĞRU OK
PP0054 Microbiological Effects of Propolis Extracts on Vacuum Packaging Sardine Fillets Inoculated with <i>Morganella psychrotolerans</i>	PP0076 Minimum Inhibitor Concentration (MIC) of Some Antibiotics to <i>Lactococcus garvieae</i> Isolated from Rainbow Trout ( <i>Oncorhynchus mykiss</i> )

Ayket BURGUT, Hatice YAZGAN, Mustafa DURMUŞ, Ali Rıza KÖŞKER, Esmeray KÜLEY BOĞA	Hijran YAVUZCAN YILDIZ, Quyet PHAN VAN
PP0055 The Effect of Nitrogen Deficiency on The Lipid and Protein Content of <i>Isochrysis affinis galbana</i> Cultured in Photobioreactor Leyla USLU, Oya IŞIK, Burcu AK ÇİMEN	PP0079 Some Population Parameters of Common Eagle Ray ( <i>Myliobatis aquila</i> ) in The Saros Bay (North Aegean Sea) Serdar ÖZTEPE, Cahide Çiğdem YİĞİN
PP0030 Hirudinea Fauna of The Lake Yeniçağa (Bolu, Turkey) Ramazan KÜÇÜKKARA, Mustafa CEYLAN, Mustafa ZENGİN, Salih İLHAN	PP0080 The Effects of Using Hazelnut and Linseed Oil in Sea Bream Feeds on Liver Fatty Acids Oğuz TAŞBOZAN, Celal ERBAŞ, Mahmut Ali GÖKÇE
PP0057 The Impact of Nisin on Ammonia, Trimethylamin and Biogenic Amine Formation and Their Indices of Vacuum-Packed Sea Bass Fillets ( <i>Dicentrarchus labrax</i> ) in Cold Stored Yılmaz UÇAR, Fatih ÖZOĞUL, Mustafa DURMUŞ, Ali Rıza KÖŞKER, Esmeray KÜLEY BOĞA, Yeşim ÖZOĞUL	PP0081 Operating a Network of Integrated Observatory Systems in The Mediterranean Sea: Odyssey Project as a Tool in Fisheries and Aquatic Sciences Yelda AKTAN, Çetin KESKİN, Süheyla KARATAŞ, Cumhuri H. YARDIMCI, Murat GÜNDÜZ
PP0073 Biosensors Used in Seafood Safety Yağmur TURGUT, Mehmet Altay ÜNAL, Begüm YURDAKÖK-DİKMEN	PP0082 Spirulina and Landscape Betül GÜROY
PP0092 Effects of Dietary Taurine Inclusion to Low-Fish Meal Diets on Growth Performance of Meagre, <i>Argyrosomus regius</i> Derya GÜROY, Onur KARADAL, Betül GÜROY, Yılmaz EMRE, Nesrin EMRE, Durali ERASLAN, Fatma Banu YALIM, Abdullah DEMİR	PP0074 Rapid Diagnosis of Fish Diseases with Mediated Isothermal Amplification Assay (LAMP) Özge OTGUCUOĞLU, Hijran YAVUZCAN YILDIZ
PP0083 Molecular Identification of Parasites Isolated from Mediterranean Mussel ( <i>Mytilus galloprovincialis</i> Lamarck 1819) Specimens Harun YILMAZ, Ercüment GENÇ, Emre KESKİN, Şükrü YILDIRIM	PP0089 Some New Record Diatoms from Yalova Flowing Waters Elif YILMAZ, M.Aydın KALELİ, Cüneyt Nadir SOLAK
PP0084 Biofloc Application in Narrow-Clawed Crayfish ( <i>Astacus leptodactylus</i> ) Culture: Preliminary Results Ercüment GENÇ, Doğan KAYA, Serhat DİNÇER, M. Ayçe GENÇ, Mevlüt AKTAŞ	PP0090 Impacts of Mangrove Expansion on Salt Marsh Benthic Infaunal Communities in The Gulf of Mexico Herdem ASLAN, Christina E. POWELL, Melissa M. BAUSTIAN, Mike POLITO
PP0087 Impact of the Climate Change on Fish Reproduction Berfin KAHRAMAN, Buket GÜL, Farah Gönül AYDIN	PP0091 Fish Feels Pain Mustafa GÜVEN, Berfin KAHRAMAN, Farah Gönül AYDIN
PP0093 Effect of Feeding Level on Total Ammonium-Nitrogen Excretion of Juvenile Meagre, <i>Argyrosomus regius</i> Derya GÜROY, Onur KARADAL, Betül GÜROY, Serhan MANTOĞLU, M. Ayçe GENÇ, Ercüment GENÇ, Orhan Tufan EROLDÖĞAN	PP0009 First Report of <i>Eustrongylides excisus</i> Larvae and <i>Lernaea cyprinacea</i> on Eğirdir Minnow ( <i>Pseudophoxinus egridiri</i> ) Ufuk AKÇİMEN, Meral APAYDIN YAĞCI, Vedat YEĞEN, Rahmi UYSAL, Fuat BİLGİN, Abdulkadir YAĞCI