



# **7<sup>th</sup> INTERNATIONAL CONGRESS ON ENGINEERING AND LIFE SCIENCE**

## **SCIENTIFIC PROGRAMME**

All times stated in this program are in Tbilisi, Georgia (UTC+4).  
Virtual participants should convert the times to their local time zones.

**September 22-24, 2026**



**Georgian National Academy of Sciences, 52 Shota Rustaveli Ave, Tbilisi, Georgia**



## IN-PERSON ATTENDANCE (1<sup>st</sup> DAY, 22<sup>nd</sup> of September)

**REGISTRATION: 08:30 - 09:15**

### OPENING SESSION (**Hall-A**)

|             |                                                                                                                                                                                                                                               |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 09:15-09:45 | <b>Opening Ceremony and Speeches</b><br><b>Chair</b><br><i>Prof. Dr. Givi GAVARDASHVILI – Georgian National Academy of Sciences, Georgia</i><br><b>General Coordinator</b><br><i>Prof. Dr. Adem Yavuz SÖNMEZ – Ankara University, Türkiye</i> |
|             | <b>Keynote Speakers Panel</b><br><b>Moderator</b><br><i>Prof. Dr. Sezai ERCİŞLİ - Member of the Turkish Academy of Sciences (TÜBA)</i>                                                                                                        |
| 09:45-10:15 | <b>Keynote Speech I:</b><br><b>Quantum Computer Technology</b><br><i>Prof. Dr. Ali BOZBEY – TOBB University of Economics and Technology, Türkiye</i>                                                                                          |
| 10:15-10:30 | <b>Coffee Break</b>                                                                                                                                                                                                                           |
| 10:30-11:00 | <b>Keynote Speech II:</b><br><b>Circular Economy and Zero Waste: Upstream Solutions</b><br><i>Iara BEEKMA REIS – New European Reuse Alliance, Netherlands</i>                                                                                 |
| 11:00-11:30 | <b>Keynote Speech III:</b><br><b>Is Net Zero by 2050 Possible?</b><br><i>Prof. Dr. Geoffrey John LEVERMORE – The University of Manchester, England</i>                                                                                        |
| 11:30-12:10 | <b>Q &amp; A</b>                                                                                                                                                                                                                              |

**Opening Session** will be broadcast through Zoom (**Virtual Hall-1**) and will be available to online participants' attendance  
(Meeting links to the Opening Session and other online sessions will be announced via email and through the WhatsApp group)



## IN-PERSON ATTENDANCE (1<sup>st</sup> DAY, 22<sup>nd</sup> of September), ORAL PRESENTATIONS

|             | Hall-A                                                                                                                                                                                                                                                                                         | Hall-B                                                                                                                                                                                                                                                                 |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             | Session Chair: Prof. Dr. Sezai ERCİŞLİ                                                                                                                                                                                                                                                         | Session Chair: Prof. Dr. Givi GAVARDASHVILI                                                                                                                                                                                                                            |
| 14:00-14:10 | <b>Frost Events in Fruit Trees: The 2025 Türkiye Example</b><br><i>Ishak BAYYİĞİT, Sezai ERCİŞLİ</i>                                                                                                                                                                                           | <b>Sediment Balance of the Kolkheti Shelf Zone in the Black Sea</b><br><i>Irina IORDANISHVILI, Inga IREMASHVILI, Konstantin IORDANISHVILI, Tamriko SUPATASHVILI, Nana BERAIA, Konstantin BZIAVA</i>                                                                    |
| 14:10-14:20 | <b>The Importance of Local Varieties in Fruit Science</b><br><i>Ishak BAYYİĞİT, Sezai ERCİŞLİ</i>                                                                                                                                                                                              | <b>Comparative Assessment of Heavy Metal Contamination in Major Industrial Regions of Georgia</b><br><i>Tamriko SUPATASHVILI, Sophio MODEBADZE, Maka GUGUCHIA, Marina DAVLADZE</i>                                                                                     |
| 14:20-14:30 | <b>Valorizing Indonesian Pigeon Pea (<i>Cajanus cajan</i> L. Millsp) Through Autoclaving–Cooling Modification: From Enhanced Protein Functionality to Chicken Meatball Applications</b><br><i>Bambang Dwi WIJATNIKO, Ailsa Daniswara CHANDRANINGTYAS, Atika Yahdiyani IKHSANI, Aulia ARDHI</i> | <b>Integrated Assessment of Chemical Risks in Irrigation Water: From Conventional Hydrochemical Indicators to Contaminants of Emerging Concern</b><br><i>Marine SHAVLAKADZE, Giorgi NATROSHVILI</i>                                                                    |
| 14:30-14:40 | <b>Integrated Biological Control of <i>Helicoverpa armigera</i>: Strategies, Challenges, and Future Perspectives</b><br><i>Turana MAMMADOVA, Naiba VALIYEVA</i>                                                                                                                                | <b>Development of HEDSI (Hydrologically Enhanced Debris-Flow Susceptibility Index): Integrating HAND, Morphometry, and UAV-Based Terrain Change Analysis in Mountainous Georgia</b><br><i>Irma INASHVILI, Konstantine BZIAVA, Zaal TSINADZE, Demetre JANJALASHVILI</i> |
| 14:40-14:50 | <b>Effects of Zinc Oxide Nanoparticles on Germination Performance of Triticale (<i>Triticosecale wittmack</i>) under Salinity Stress</b><br><i>Firat SEFAOĞLU, Dilara KAYNAR</i>                                                                                                               | <b>Activation of Floods and Debris Flow Processes in Georgia: Historical Experience and Modern Risk Management</b><br><i>Khatuna KIKNADZE, Paata SICHINAVA, Shorena KUPREISHVILI, Temur IORDANISHVILI, Sandro KUKHALASHVILI, Vakhtang BOGVERADZE</i>                   |
| 14:50-15:05 | Discussion                                                                                                                                                                                                                                                                                     | Discussion                                                                                                                                                                                                                                                             |
| 15:05-15:20 | Coffee Break                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                        |



## IN-PERSON ATTENDANCE (1<sup>st</sup> DAY, 22<sup>nd</sup> of September), ORAL PRESENTATIONS

|             | Hall-A                                                                                                                                                                                                      | Hall-B                                                                                                                                                                                                                                     |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             | Session Chair: Prof. Dr. Hünkar Avni DUYAR                                                                                                                                                                  | Session Chair: Prof. Dr. Ahmet Tolga TAŞÇI                                                                                                                                                                                                 |
| 15:20-15:30 | GC/MS-Based Phytochemical Profiling, Antioxidant Activity, and the Role of <i>Ranunculus constantinopolitanus</i> Extract in Biodiesel–Diesel Blends<br><u>Şükriye ÇAKMAK</u> , Nalan TÜRKÖZ KARAKULLUKÇU   | Structural and Surface Engineering for Enhanced Heterojunction Photodiodes<br><u>Ahmet Tolga TAŞÇI</u>                                                                                                                                     |
| 15:30-15:40 | <i>Trifolium pratense</i> L. Flower Extract as a Natural Additive for Improving the Low-Temperature Crystallization Behavior of Biodiesel–Diesel Blends<br>Nalan TÜRKÖZ KARAKULLUKÇU, <u>Şükriye ÇAKMAK</u> | A Hybrid Normalized Least Mean Square and Extended Kalman Filter Based Speed Estimation of Permanent Magnet Synchronous Generator in Wind Energy Conversion Systems<br>Altay Bora VURDU, <u>Faruk ERKEN</u>                                |
| 15:40-15:50 | Evaluation of the Antibacterial and Antifungal Activities of Ethanol and Hexane Extracts from <i>Aloe barbadensis</i> Miller (Aloe vera)<br><u>Aysel VEYİSOĞLU</u> , Demet TATAR                            | Economic Efficiency of Investments in Engineering Protection of Avalanche-Prone Areas in the Mountainous Regions of Georgia<br><u>Martin VARTANOV</u> , Inga IREMASHVILI, Nana BERAIA, Erekle KECHKHOSHVILI, Lia MAISAIA, Khatuna KIKNADZE |
| 15:50-16:00 | Comparative Evaluation of the Antimicrobial Activities of Methanolic Extracts of <i>Galium verum</i> L. Obtained by Maceration and Soxhlet Extraction<br><u>Aysel VEYİSOĞLU</u> , Demet TATAR               | Road Transport Communications Infrastructure<br><u>Tamaz SHILAKADZE</u>                                                                                                                                                                    |
| 16:00-16:10 | Effects of Medicinal and Aromatic Plants on Soil Physical Quality: A Critical Review of Root Architecture and Rhizosphere Processes<br><u>Hüseyin SARI</u> , Dilek TUNÇ                                     | The Principle of Technical Preventability in Occupational Health and Safety Law: The Impact of Engineering Science on the Employer's Obligation to Take Precautions and Legal Responsibility<br><u>Sami NARTER</u>                         |
| 16:10-16:25 | Discussion                                                                                                                                                                                                  | Discussion                                                                                                                                                                                                                                 |
| 16:25-16:40 | Coffee Break                                                                                                                                                                                                |                                                                                                                                                                                                                                            |



## IN-PERSON ATTENDANCE (1<sup>st</sup> DAY, 22<sup>nd</sup> of September), ORAL PRESENTATIONS

|             | Hall-A                                                                                                                                                                                                                                                                                                                                         | Hall-B                                                                                                                                                                                                                       |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             | Session Chair: Assoc. Prof. Dr. Ertugrul TERZI                                                                                                                                                                                                                                                                                                 | Session Chair: Prof. Dr. Hacı İsmail KESİK                                                                                                                                                                                   |
| 16:40-16:50 | <b>Dietary Supplementation of <i>Pinus tabulaeformis</i> Pollen Enhances Growth, Antioxidant Defense, and Physiological Resilience in Juvenile Nile Tilapia (<i>Oreochromis niloticus</i>)</b><br>Evelyn B. MARTINEZ, Ainulyakin H. IMLANI, Dedi JUSADI, Mary Joyce Z. GUINTO-SALI, Sitti Amina Moh. TILKA, Morsid H. IMLANI, Belen I. SANSAWI | <b>The Effect of Silicone Liquid on the Water Uptake and Surface Hardness Properties of Oak (<i>Quercus robur</i> L.) and Plane (<i>Platanus orientalis</i> L.) Woods</b><br>Hacı İsmail KESİK, Recep AYKAN, Kubulay ÇAĞATAY |
| 16:50-17:00 | <b>Inorganic Fertilizer-Induced Shifts in Carrageenan Biosynthesis Pathways in Eucheumatoid Seaweeds Under Shortened Harvest Cycles</b><br>Jonald BORNALES, Keriman YÜRÜTEN ÖZDEMİR, Rahmi Can ÖZDEMİR                                                                                                                                         | <b>The Effect of Teak Oil on the Gloss and Color Properties of Oak (<i>Quercus robur</i> L.) and Linden (<i>Tilia tomentosa</i> Moench) Woods</b><br>Recep AYKAN, Kubulay ÇAĞATAY, Hacı İsmail KESİK                         |
| 17:00-17:10 | <b>Mechanistic Role of Probiotics and Phytobiotics in Philippine Milkfish Aquaculture under Integrated Multi-Trophic Aquaculture System</b><br>Mulim BAKIL, Jonald BORNALES, Sittie Nor Asiah JABIR, Fatmawati ALBAR, Ailyn SALIM, Keriman YÜRÜTEN ÖZDEMİR, Rahmi Can ÖZDEMİR                                                                  | <b>Global Scientific Trends in <i>Formica rufa</i> Research: A Bibliometric and Knowledge Mapping Analysis</b><br>Fatih SİVRİKAYA, Gonca Ece ÖZCAN, Korhan ENEZ                                                              |
| 17:10-17:20 | <b>Functional Phytobiotic-Based Diets for Guts Microbiome and Immune Modulation in <i>Macrobrachium rosenbergii</i> Postlarvae: Mechanistic Insights and Implications for Philippine Aquaculture</b><br>Ailyn SALIM, Jonard BORNALES, Sittie Nor Asiah JABIR, Fatmawati ALBAR, Mulim BAKIL, Keriman YÜRÜTEN ÖZDEMİR                            | <b>What Does the Volume of Red Wood Ant Nests Indicate about Forest Ecosystem Condition?</b><br>Gonca Ece ÖZCAN, Fatih SİVRİKAYA, Korhan ENEZ                                                                                |
| 17:20-17:30 | <b>Dietary Phytogetic as Multifunctional Alternatives to Antibiotics in Heat-Stressed Turkish Rainbow Trout Aquaculture</b><br>Fatmawati O. ALBAR, Jonald C. BORNALES, Keriman YÜRÜTEN ÖZDEMİR, Sittie Nor Asiah JABIR, Ailyn SALIM, Mulim BAKIL                                                                                               | <b>Occupational Health and Safety Risk Assessment in Forestry: A Case Study of the Karadere Forest Enterprise</b><br>Özkan DEMİR, Korhan ENEZ, Fatih SİVRİKAYA, Gonca Ece ÖZCAN                                              |
| 17:30-17:45 | Discussion                                                                                                                                                                                                                                                                                                                                     | Discussion                                                                                                                                                                                                                   |



## IN-PERSON ATTENDANCE (2<sup>nd</sup> DAY, 23<sup>rd</sup> of September), ORAL PRESENTATIONS

|             | Hall-A                                                                                                                                                                                                                                                     | Hall-B                                                                                                                                                                                                   |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             | Session Chair: Prof. Dr. Ece Ümmü DEVECİ                                                                                                                                                                                                                   | Session Chair: Prof. Dr. Şükrü ÇELİK                                                                                                                                                                     |
| 09:30-09:40 | <b>Assessment of Green Transition Readiness Levels and Transformation Barriers in Automotive Supplier Enterprises within the Framework of the European Green Deal</b><br><u>Asude ATES</u> , Rabia KÖKLÜ, Ahmet KARAKİRAZ, Hülya DEMİREL, Ömer Hulusi DEDE | <b>Investigation of the Electrical Properties of Benzoic Acid-Doped Thermoplastic Polyurethane Composites under Electric Field</b><br><u>Özgür ÖZTÜRK</u> , Gizem SAYIN, Sedat KURNAZ, Ahmet Tolga TAŞCI |
| 09:40-09:50 | <b>Water Footprint Inventory and GIS-Based Water Management: A Case Study of Sakarya University Campus</b><br><u>Rabia KÖKLÜ</u> , Bilge KATANALP, Ayşe ATALAY DUTUCU, <u>Asude ATES</u>                                                                   | <b>Temperature-Dependent Magnetic Stiffness of a Single-Crystal YBCO Bulk Superconductor via Magnetic Levitation Force Measurements</b><br><u>Şükrü ÇELİK</u> , Sait Barış GÜNER, Özgür ÖZTÜRK           |
| 09:50-10:00 | <b>Zero-Waste Campuses as Living Laboratories: A Scalable Model for Sustainable Urban Waste Management</b><br><u>Ece Ümmü DEVECİ</u> , Tayfun DEVECİ                                                                                                       | <b>Investigation of the Effect of Al and Cu Doping on the Structural, Morphological, and Microhardness Properties of ZnO Nanostructures Synthesized by Sol-Gel Method</b><br><u>Turgay SEYDİOĞLU</u>     |
| 10:00-10:10 | <b>From Circularity to Contaminant Control: A Systematic Assessment of Microplastic Loads and Treatment Efficiencies in Sewage Sludge Management</b><br><u>Ece Ümmü DEVECİ</u>                                                                             | <b>Urban Transformation and Settlement Evolution of Akhalkalaki in the Kaspi Municipality (Georgia)</b><br><u>Olga KHARAISHVILI</u> , <u>Tsisia KOBALADZE</u> , Tamta NATENADZE                          |
| 10:10-10:25 | Discussion                                                                                                                                                                                                                                                 | Discussion                                                                                                                                                                                               |
| 10:25-10:40 | Coffee Break                                                                                                                                                                                                                                               |                                                                                                                                                                                                          |



## IN-PERSON ATTENDANCE (2<sup>nd</sup> DAY, 23<sup>rd</sup> of September), ORAL PRESENTATIONS

|             | Hall-A                                                                                                                                                                                                                                                                                             | Hall-B                                                                                                                                                                                |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             | Session Chair: Prof. Dr. Levent BAT                                                                                                                                                                                                                                                                | Session Chair: Assoc. Prof. Dr. Gökhan ARSLAN                                                                                                                                         |
| 10:40-10:50 | Trace Element Profiling and Comprehensive Consumer Health Risk Evaluation of the Demersal Brown Meagre from the Coastal Black Sea<br><i>Levent BAT, Ayşah ÖZTEKİN, Elif ARICI</i>                                                                                                                  | Microplastic Contamination in Mediterranean Bivalves: A Comparative Assessment of Spatial and Methodological Variability<br><i>Adem Yavuz SÖNMEZ, Mustafa KARGA</i>                   |
| 10:50-11:00 | Ecotoxicological Evaluation and Consumer Health Risk Profiling of Essential and Toxic Elements in Chamelea gallina Harvested from Coastal Black Sea<br><i>Levent BAT, Ayşah ÖZTEKİN</i>                                                                                                            | Microplastics in the Deep: A Mediterranean Synthesis and Meta-Analysis of Ingestion in the Deep-Water Red Shrimp <i>Aristeus antennatus</i><br><i>Adem Yavuz SÖNMEZ, Yiğit TAŞTAN</i> |
| 11:00-11:10 | Assessment of Trace Element Accumulation and Human Health Risk Evaluation of European Perch ( <i>Perca fluviatilis</i> Linnaeus, 1758) from the Kızılırmak Delta Wetland Complex, Black Sea, Türkiye<br><i>Öztekin YARDIM, Ayşah ÖZTEKİN, Levent BAT</i>                                           | The Impact of Climate Change on Water Resources<br><i>Gökhan ARSLAN</i>                                                                                                               |
| 11:10-11:20 | Assessment of Essential and Non-Essential Trace Elements in Wels Catfish ( <i>Silurus glanis</i> Linnaeus, 1758) from the Samsun Fish Market (Türkiye) and Related Human Health Risk Evaluation<br><i>Öztekin YARDIM, Ayşah ÖZTEKİN, Levent BAT</i>                                                | Comparison of Water Extraction Indices: Case of Ayvacık Reservoir (Çanakkale, Türkiye)<br><i>Semih KALE, Selçuk BERBER, Deniz ACARLI</i>                                              |
| 11:20-11:30 | Rioni Pulse and Black Sea Coastal Eutrophication: An Integrated Analysis of High-Frequency Buoy Telemetry, Copernicus Historical Data, and Kinetic Modeling for the “Blue Growth” Strategy in the Poti Water Area (Georgia)<br><i>Givi GAVARDASHVILI, Konstantine BZIAVA, Tamriko SUPATASHVILI</i> | Forecasting Capture and Aquaculture Production of <i>Mytilus galloprovincialis</i> in the Black Sea<br><i>Semih KALE, Harun YILDIZ, Sefa ACARLI</i>                                   |
| 11:30-11:40 | Discussion                                                                                                                                                                                                                                                                                         | Evaluation of Coastal Water Quality along the Black Sea Coast of Istanbul (2023–2025) Based on Fecal Indicator Bacteria<br><i>Mustafa KARGA</i>                                       |
| 11:40-11:55 |                                                                                                                                                                                                                                                                                                    | Discussion                                                                                                                                                                            |



## IN-PERSON ATTENDANCE (2<sup>nd</sup> DAY, 23<sup>rd</sup> of September), ORAL PRESENTATIONS

|             | Hall-A                                                                                                                                                                                                                                                                                                                                                  | Hall-B                                                                                                                                                                                                                                                               |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             | Session Chair: Prof. Dr. Harun ARSLAN                                                                                                                                                                                                                                                                                                                   | Session Chair: Prof. Dr. Fatih DADAŞOĞLU                                                                                                                                                                                                                             |
| 13:40-13:50 | <b>Evaluation of In Vitro Antibacterial Activity of Pomegranate Seed Extract Against Bacterial Fish Pathogens</b><br><i>Ertugrul TERZI, Mustafa KARGA</i>                                                                                                                                                                                               | <b>Seed Coating Bio Priming Applications</b><br><i>Esin DADAŞOĞLU, Fatih DADAŞOĞLU</i>                                                                                                                                                                               |
| 13:50-14:00 | <b>Dietary Monoterpene-Based Phytobiotics for Bacterial Disease Management in Tilapia Aquaculture: Implications for Philippine Aquaculture</b><br><i>Sittie Nor Asiah JABIR, Jonald BORNALES, Keriman YÜRÜTEN ÖZDEMİR, Rahmi Can ÖZDEMİR</i>                                                                                                            | <b>The Role of Microorganisms in Organic Agriculture</b><br><i>Esin DADAŞOĞLU, Fatih DADAŞOĞLU</i>                                                                                                                                                                   |
| 14:00-14:10 | <b>Graph-Theoretic Modeling of Nutrient Transport and Water Chemistry in Aquaculture Systems</b><br><i>Rosalio G. ARTES JR., Mary Joyce Z. GUINTO-SALI, Sheriffa T. ANDAS, Ainulyakin H. IMLANI</i>                                                                                                                                                     | <b>Productivity of the Legenda Grape Cultivar under the Environmental Conditions of the Republic of Moldova</b><br><i>Ana GRIBCOVA, Serghei CHISILI</i>                                                                                                              |
| 14:10-14:20 | <b>Molecular Characterization of the crabp (Cellular Retinoic Acid Binding Protein) Gene in Brown Trout (<i>Salmo trutta</i>)</b><br><i>Harun ARSLAN, Emre SEFA</i>                                                                                                                                                                                     | <b>Influence of Winemaking Technologies on the Content of Bioactive Compounds in Red Wines Produced from Indigenous Moldovan Grape Varieties</b><br><i>Silvia NEMTEANU, Olga SOLDATENCO, Nicolae TARAN, Natalia DEGTEARI, Boris MORARI, Olga GROSU, Maria AGACHI</i> |
| 14:20-14:30 | <b>Effects of Dietary <i>Spirulina platensis</i> Supplementation on Growth Performance, Pigmentation, and Physiological Responses of Siamese Fighting Fish (<i>Betta splendens</i>)</b><br><i>Morsid H. IMLANI, Dyahruri SANJAYASARI, Mary Joyce Z. GUINTO-SALI, Sitti Amina Moh. TILKA, Melodina T. HAIROL, Belen I. SANSAWI, Ainulyakin H. IMLANI</i> | <b>Ultrasonic Priming's Impact on Seed and Seedling Quality in Stored Melon and Squash Seeds</b><br><i>Burcu Begüm KENANOĞLU, Anıl ERMiŞ</i>                                                                                                                         |
| 14:30-14:45 | Discussion                                                                                                                                                                                                                                                                                                                                              | Discussion                                                                                                                                                                                                                                                           |
| 14:45-15:00 | Coffee Break                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                      |



## IN-PERSON ATTENDANCE (2<sup>nd</sup> DAY, 23<sup>rd</sup> of September), ORAL PRESENTATIONS

|               | Hall-A                                                                                                                                                                                                                                                                                                                             |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | Session Chair: Assist. Prof. Dr. Recep AYKAN                                                                                                                                                                                                                                                                                       |
| 15:00 - 15:10 | <b>Development of Colon-Targeted Fe<sub>3</sub>O<sub>4</sub>-Loaded Alginate Hydrogel Beads Containing Brassica oleracea L. Extract and 5-Fluorouracil for Enhanced Anticancer Activity</b><br><i>İlknur ATLI, Tılsım Ayris ALBAY, Selcen ÇAKIR, Özgür ÖZAY</i>                                                                    |
| 15:10- 15:20  | <b>Theoretical Modeling of Magnetization Dynamics and the Skin Effect in Co-Based GMI Biosensors</b><br><i>Gökhan KIRAT, Mehmet Ali AKSAN, Emine ÖZASLAN</i>                                                                                                                                                                       |
| 15:20- 15:30  | <b>Determination of Some Bioactive Components of Concentrated Sumac (<i>Rhus coriaria</i> L.) Sauce Produced from Genotypes Collected from Türkiye's Mediterranean Region</b><br><i>Ali TEKİN, Serap BALIK, Hüsamettin Aycan ALP, Zeynettin BAYSAL, Samet TUĞ, Yeşim Yalçın MENDİ, Rıdvan ARSLAN, Nihal DENLİ, Mehmet SÜTYEMEZ</i> |
| 15:30- 15:40  | <b>Cranberry Exosomes and Synthetic Melittin: A Broad-Spectrum Antiviral Strategy in a Bioengineered Skin Organoid Model</b><br><i>Sevda DEMİR, Eda Nur CANBAZ, Fikrettin ŞAHİN</i>                                                                                                                                                |
| 15:40- 15:50  | <b>Edible Ornamental Plants: Sumac as a Case Study</b><br><i>Hüsamettin Aycan ALP, Nihal DENLİ, Ali TEKİN, Serap BALIK, Zeynettin BAYSAL, Yeşim YALÇIN MENDİ, Mehmet SÜTYEMEZ</i>                                                                                                                                                  |
| 15:50- 16:05  | Discussion                                                                                                                                                                                                                                                                                                                         |



**IN-PERSON ATTENDANCE (2<sup>nd</sup> DAY, 23<sup>rd</sup> of September), *Special Session: Objectives, Activities, and 6<sup>th</sup> Report Scientific Outcomes of the Interreg NEXT BSB Project AlgaeRevive***

**Programme Name:** Interreg NEXT Black Sea Basin Programme 2021–2027 (Co-funded by the European Union)

**Full Project Title:** *AlgaeRevive: Harnessing Algae Power for Pollution Reduction and Blue Growth*

**Project Code:** BSB00091

|                      | <b>Hall-B</b>                                                                                                                                         |                                                                  |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
|                      | <b>Moderator: Academician, Dr., Prof. Givi Gavardashvili</b>                                                                                          |                                                                  |
|                      | <b>Presentation / Activity Title</b>                                                                                                                  | <b>Speaker(s) / Presenter(s)</b>                                 |
| <b>16:45 – 17:00</b> | <b>Opening &amp; Project Framework:</b> Strategic Roadmap of the <i>AlgaeRevive</i> (BSB00091) Project under the Interreg NEXT BSB Programme          | <b>Academician, Dr., Prof. Givi Gavardashvili</b>                |
| <b>17:00 – 17:25</b> | <b>Synthesis of the 6<sup>th</sup> Progress Report:</b> Key Findings, Ecological Milestones, and Regional Pollution Reduction Strategies              | <b>Academician, Dr., Prof. Givi Gavardashvili</b>                |
| <b>17:25 – 17:50</b> | <b>Data Ingestion &amp; Analytical Infrastructure:</b> Hydro-Meteorological Modeling, Autonomous Telemetry, and Predictive Analytics in Coastal Zones | <b>Dr., Assoc. Prof., Senior Researcher Konstantine Bziava</b>   |
| <b>17:50 – 18:15</b> | <b>Hydro-chemical and Eco-toxicological Assessment:</b> Environmental Monitoring Standards and Biomass Safety for the Blue Economy                    | <b>Dr., Assoc. Prof., Senior Researcher Tamriko Supatashvili</b> |
| <b>18:15 – 18:30</b> | <b>Q&amp;A, Discussion &amp; Concluding Remarks</b>                                                                                                   | <b>Moderator: Academician, Dr., Prof. Givi Gavardashvili</b>     |

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| <b>19:30</b> | <b>Gala Dinner</b> |
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## IN-PERSON ATTENDANCE, POSTER PRESENTATIONS

Posters should be hung to the designated area at **Poster Hall** on 22<sup>nd</sup> of September, 10:15 (1<sup>st</sup> day of the congress) and displayed by the presenting author until 23<sup>rd</sup> of September, 16:00.

**Frequency-Dependent Dielectric Characteristics of Solution-Processed Al/C<sub>2</sub>-CN/n-Si/Al Organic-Inorganic Heterostructures**

*Haluk KORALAY, Nihat TUĞLUOĞLU, Pinar ORUÇ, Selçuk İZMİRLİ, Mamatimin ABBAS, Şükrü ÇAVDAR*

**Salinity Acclimation and Growth Performance of Juvenile Asian Seabass (*Lates calcarifer*) at the MSU-TCTO Hatchery, Philippines**

*Ainulyakin H. IMLANI, Mary Joyce Z. GUINTO SALI, Belen I. SANSAWI, Morsid H. IMLANI, Rosalio G. ARTES JR., Sheriffa T. ANDAS, Adzmon J. GARAMON*

**Integrative Analysis of Oxidative, Immune, Genotoxic, Apoptotic, and Molecular Responses to Nanoplastics in Mussels**

*Nihan AKINCI KENANOĞLU, Osman Nezih KENANOĞLU, Yiğit TAŞTAN*



## ONLINE ATTENDANCE (1<sup>st</sup> DAY, 22<sup>nd</sup> of September), ORAL PRESENTATIONS

|             | Virtual Hall-1                                                                                                                                                                                                                                    | Virtual Hall-2                                                                                                                                                                                                                                                                                         |
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|             | Session Chair: Prof. Dr. Pablo J. HIDALGO                                                                                                                                                                                                         | Session Chair: Prof. Dr. Arzu Funda BAĞCIGİL                                                                                                                                                                                                                                                           |
| 14:30-14:40 | <b>Multi-Temporal LiDAR Assessment of Coastal Cliff Retreat and Vulnerability to Sea-Level Rise: The Case of El Asperillo Cliff (Huelva, Spain)</b><br><u>Pablo J. HIDALGO</u> , Cristina PEREZ-CARRAL, Nuria MONTIEL                             | <b>Occurrence and Antimicrobial Resistance Profiles of <i>Enterococcus faecalis</i> and <i>Enterococcus faecium</i> Isolated from Red Deer (<i>Cervus elaphus</i>) in Istanbul, Türkiye</b><br>Deniz KESEN, Yalçın ABUL, Cansu ENGİN, Mehmet Can ÖZTÜRK, Barış HALAÇ, Arzu Funda BAĞCIGİL, Nüket SİVRİ |
| 14:40-14:50 | <b>Post-Fire Soil Organic Carbon Dynamics in Mediterranean Ecosystems</b><br>Hüseyin SARI, Kutay KARADAĞ                                                                                                                                          | <b>Essential Oil of Savory Growing in Libya: Chemical Composition and Antimicrobial Activity</b><br>Hayaa A. A. ABOHAMARA, Amna A. A. ALGADAFI, Sara Hasan Mahmoud EJBARA                                                                                                                              |
| 14:50-15:00 | <b>Modeling Leaf Area Index Based on Topographic Factors Using Machine Learning in Northern Zagros Coppice Forests, Western Iran</b><br><u>Saywan NIKKHAH</u> , Hassan POURBABAEI, Seyed Mohsen HOSSEINI                                          | <b>Essential Oil of Oregano (<i>Origanum vulgare</i>) Growing in Libya: Chemical Composition and Antimicrobial Activity</b><br><u>Sana Ali SOOF</u> , Mona A. SAUF, Ahmed Ramadan ABUJARIDA, Sumayyah M. ALI                                                                                           |
| 15:00-15:10 | <b>Quality of Scots Pine Pollen in Relation to the Level of Technogenic Environmental Pollution and the Content of Metal Compounds in Snowmelt Water and Mature Pine Pollen</b><br><u>Svetlana MAKHNIOVA</u> , Sergey MENSCHIKOV, Pavel MOHNACHEV | <b>Characterization of Chitosan Obtained from Aquatic Crustacean in the Western Black Sea</b><br><u>Hazal BAŞAR YILMAZ</u> , Ali Eslem KADAK                                                                                                                                                           |
| 15:10-15:20 | <b>Exploration of Phenotypic and Genetic Diversity of Different Guava Genotypes Based on Inter Simple Sequence Repeat (ISSR) Markers</b><br><u>Beenish AFTAB</u> , Haleema SHEEREN                                                                | <b>Ordinal-Aware Knee X-ray Osteoporosis Status Classification with Hard-Sample Reweighting and Multi-View Inference</b><br><u>Shaima ALMASAGDI</u> , Linda BA ALAWI, Ferhat BOZKURT, Mete YAĞANOĞLU                                                                                                   |
| 15:20-15:30 | <b>Industrial Ecology Strategy for Waste Valorization and the Reduction of Environmental Impact in the Wilaya of Sétif</b><br><u>Chahra DOUIBI</u> , Sabrina DJERBOUA                                                                             | <b>Global Scientific Trends in Meloidogyne spp. Genome Research: A Bibliometric Analysis (1986–2026)</b><br><u>Aysenur ASLAN</u>                                                                                                                                                                       |
| 15:30-15:45 | Discussion                                                                                                                                                                                                                                        | Discussion                                                                                                                                                                                                                                                                                             |



## ONLINE ATTENDANCE (1<sup>st</sup> DAY, 22<sup>nd</sup> of September), ORAL PRESENTATIONS

|             | Virtual Hall-1                                                                                                                                                                                                                                 | Virtual Hall-2                                                                                                                                                                                                      |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             | Session Chair: Prof. Dr. Erkan CAN                                                                                                                                                                                                             | Session Chair: Assist. Prof. Dr. Mohamed Omar Abdalla SALEM                                                                                                                                                         |
| 16:00-16:10 | <b>Physical Entrapment and Removal of Freshwater from the Hydrological Cycle via Packaged and Bottled Water Systems</b><br><i>Erkan CAN, <u>Brian AUSTIN</u>, Abdulla SAKALLI</i>                                                              | <b>Impact of Ultrasound-Assisted Extraction Parameters on the Phytochemical and Antioxidant Profile of an Anacardiaceae Plant</b><br><i>Raid Abderraouf BOUDIAF, Samira GHEDJATI, Saliha DAHAMNA, Allaoua NOURI</i> |
| 16:10-16:20 | <b>AI-Driven Circular Water Ecosystems: A Decentralized Framework for Climate Resilience and Water Security</b><br><i>Erkan CAN, Giulia GUERRIERO, <u>Sabrina BOUCETTA</u>, Stela GEORGIEVA</i>                                                | <b>Attitudes of Libyan University Faculty Members towards Using Computers to Teach Biology Courses</b><br><i><u>Esmail Moammer Emhmed MOAMMER</u>, Mohamed Omar Abdalla SALEM</i>                                   |
| 16:20-16:30 | <b>Development and Sensory Evaluation of Rice Porridge Fortified with Selected Edible Seaweeds (<i>Caulerpa lentillifera</i>, <i>Solieria robusta</i>, and <i>Kappaphycus striatus</i>)</b><br><i>Marcelita A. JEVA, Albaris B. TAHILUDDIN</i> | <b>The Impact of Cochineal Insect on Cactus in Bani Walid City</b><br><i><u>Esmail Moammer Emhmed MOAMMER</u>, Mohamed Omar Abdalla SALEM</i>                                                                       |
| 16:30-16:40 | <b>Production Practices, Food Safety, Marketing, and Business Dynamics of Street-Vended Pickled Seaweeds in Tawi-Tawi, Philippines</b><br><i>Mudzrina H. ARIK, Albaris B. TAHILUDDIN</i>                                                       | <b>Factors Influencing Customers' Acceptance Intention of Self-Service Kiosks in Quick Service Restaurants: An Application of the UTAUT Model</b><br><i>Rahijan Abdul WAHAB, Farina ZULIA</i>                       |
| 16:40-16:50 | <b>Formulation and Sensory Acceptability of Seaweed-Fortified Milkshakes Using <i>Kappaphycus striatus</i>, <i>Caulerpa lentillifera</i>, and <i>Solieria robusta</i></b><br><i><u>Vevelinn U. KALI</u>, Albaris B. TAHILUDDIN</i>             | <b>Computer Vision and Camera-Based Animal Tracking in Livestock: A Bibliometric Analysis</b><br><i><u>Kübra EKİNCİ</u>, Büşra DURLU, Zeynep SÖNMEZ</i>                                                             |
| 16:50-17:00 | <b>Clean Label Dairy Products through Indigenous Lactic Acid Bacteria: A Sustainable Strategy to Reduce Ultra-Processing</b><br><i>Anatoli CARTASEV, <u>Liudmila NECRILOVA</u>, Marcela BARBAROS</i>                                           | <b>A Bibliometric Analysis of the Effects of Global Warming and Climate Change on Poultry</b><br><i>Büşra DURLU, <u>Kübra EKİNCİ</u>, Zeynep SÖNMEZ</i>                                                             |
| 17:00-17:15 | Discussion                                                                                                                                                                                                                                     | Discussion                                                                                                                                                                                                          |



## ONLINE ATTENDANCE (2<sup>nd</sup> DAY, 23<sup>rd</sup> of September), ORAL PRESENTATIONS

|                    | <b>Virtual Hall-1</b>                                                                                                                                                                                                                     | <b>Virtual Hall-2</b>                                                                                                                                                                                                                                                                                                          |
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|                    | <b>Session Chair:</b> Prof. Dr. Sergey MENSCHIKOV                                                                                                                                                                                         | <b>Session Chair:</b> Prof. Dr. Sabine BOUCETTA                                                                                                                                                                                                                                                                                |
| <b>09:15-09:25</b> | <b>Woody Species Regeneration in an Ash Disposal Site After Biological Reclamation by Herbaceous Plants</b><br><i>Sergey MENSCHIKOV, Pavel MOKHNACHEV, Nadezhda POSPELOVA (KUZMINA)</i>                                                   | <b>Artificial Intelligence and Blue Biotechnology: New Horizons for Scientific Research and Sustainable Innovation</b><br><i>Sabrine BOUCETTA, Erkan CAN, Olena HONCHAROVA</i>                                                                                                                                                 |
| <b>09:25-09:35</b> | <b>Monitoring of the State of Forest Plantations in the Zone of Influence of the Sredneuralsky Copper Smelter over a Long-Term Period</b><br><i>Pavel MOKHNACHEV, Sergey MENSCHIKOV, Nadezhda POSPELOVA (KUZMINA), Svetlana MAKHNIOVA</i> | <b>Economic Contributions and Livelihood Resilience of Informal Youth Seaweed Gleaners in Tawi-Tawi, Philippines</b><br><i>Sitti Darmiya S. BAID, Hadjiran A. ILLUD, Ainulyakin H. IMLANI, Murhamida S. ELDANI, Ertugrul TERZI, Albaris B. TAHILUDDIN</i>                                                                      |
| <b>09:35-09:45</b> | <b>Interspecific Differences in the Accumulation of Elements by Forest-Forming Species in Zones of Aerotechnogenic Pollution in the Urals, Russia</b><br><i>Nadezhda POSPELOVA (KUZMINA), Sergey MENSCHIKOV, Pavel MOKHNACHEV</i>         | <b>Fish Community Studies in Farm Drains of the Al-Hamam Project in Al-Jufra, Libya</b><br><i>Mohamed Omar Abdalla SALEM</i>                                                                                                                                                                                                   |
| <b>09:45-09:55</b> | <b>The Role of Seed Orchards in Tree Cultivation</b><br><i>Ercan OKTAN, Fatma YÜMSEL</i>                                                                                                                                                  | <b>Length-Weight Relationship, Condition Factor, and Sex Ratio of Round Scad <i>Decapterus macrosoma</i> (Bleeker, 1851) Caught by Ring Net in Tawi-Tawi, Philippines</b><br><i>Al-Nasrif H. KISSAE, Raida K. HASSAN, Angelica B. BERMIL, Rizal Jhunn F. ROBLES, Shada-Wati H. KISSAE, Jaro O. AJIK, Albaris B. TAHILUDDIN</i> |
| <b>09:55-10:05</b> | <b>Release Cutting Practices in Toros Cedar Stands: A Case Study by Çamlıyayla</b><br><i>Ercan OKTAN, Neslihan ATAR</i>                                                                                                                   | <b>Natural Feed Additives and Their Role in Improving the Productivity of Aquaculture Systems</b><br><i>Masoud A. S. LAKWANI, Mohamed Omar Abdalla SALEM, Mousa Hamad Taher MOHAMED</i>                                                                                                                                        |
| <b>10:05-10:15</b> | <b>Assessment of Forest Stand Structure in Sızır Forest Management Chiefdom</b><br><i>Ercan OKTAN, Öznur ÖZKAN</i>                                                                                                                        | <b>Challenges of Intensive Aquaculture and Sustainable Solutions for Enhancing Production and Health</b><br><i>Masoud A. S. LAKWANI, Mohamed Omar Abdalla SALEM</i>                                                                                                                                                            |
| <b>10:15-10:25</b> | <b>Discussion</b>                                                                                                                                                                                                                         | <b>Current Status and Conservation Challenges of <i>Pinna nobilis</i> in Türkiye</b><br><i>Deniz ACARLI, Sefa ACARLI, Semih KALE, Ogün GEZEN</i>                                                                                                                                                                               |
| <b>10:25-10:40</b> |                                                                                                                                                                                                                                           | <b>Discussion</b>                                                                                                                                                                                                                                                                                                              |



## ONLINE ATTENDANCE (2<sup>nd</sup> DAY, 23<sup>rd</sup> of September), ORAL PRESENTATIONS

|                    | <b>Virtual Hall-1</b>                                                                                                                                                                                                                | <b>Virtual Hall-2</b>                                                                                                                                               |
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|                    | <b>Session Chair:</b> <i>Prof. Dr. Mahmut ELP</i>                                                                                                                                                                                    | <b>Session Chair:</b> <i>Assoc. Prof. Dr. Fadime SAĞLAM</i>                                                                                                         |
| <b>10:45-10:55</b> | <b>Transformation of Bipotential Gonads to Male/Female in Fish</b><br><i>Mahmut ELP, Ertuğrul ÇAVDAR</i>                                                                                                                             | <b>Silvicultural and Economic Assessment of the Recreational Potential of Forest Areas of Parks in Kazakhstan</b><br><i>Sara KITAIBEKOVA</i>                        |
| <b>10:55-11:05</b> | <b>AI-Powered Rotifer Counting for Aquaculture Applications</b><br><i>Mustafa İbrahim OSMANOĞLU, Salih GÖRGÜNOĞLU, Samer HASSAN</i>                                                                                                  | <b>The Importance of Ecoregion-based Growth and Yield Models in Forestry</b><br><i>Fadime SAĞLAM, Oytun Emre SAKICI</i>                                             |
| <b>11:05-11:15</b> | <b>From Assessment to Balance: Reproductive Health in Marine Hatcheries</b><br><i>Erkan CAN, Rubina VANGONE, Giulia GUERRIERO</i>                                                                                                    | <b>Artificial Intelligence Applications in Forest Growth and Yield</b><br><i>Oytun Emre SAKICI, Fadime SAĞLAM</i>                                                   |
| <b>11:15-11:25</b> | <b>Opportunities and Challenges in Marketing and Production of Plant Extract-Supplemented Fish Feed in the Arab Region: A Review of Previous Studies and Publications</b><br><i>Mohamed Omar Abdalla SALEM, Masoud A. S. LAKWANI</i> | <b>Estimating Forest Growing Stock Using Artificial Neural Networks: An Assessment of Model Applicability and Performance</b><br><i>Mahmoud BAYAT</i>               |
| <b>11:25-11:35</b> | <b>Contribution to the Ecological Quality Assessment of an Aquatic Ecosystem: The Case of Oued Bousselam</b><br><i>Djeboua SABRINA, Boukezzoula AYAT ERRAHMANE, Derrafa HIBA ALLAH, Douibi CHAHRA</i>                                | <b>Biophysical Controls on Diameter Growth of Oriental Beech in Northern Iran: A Genetic Programming Approach</b><br><i>Mahmoud BAYAT</i>                           |
| <b>11:35-11:45</b> | <b>Advances in Axolotl (<i>Ambystoma mexicanum</i>) Husbandry: From Laboratory Maintenance to Controlled Aquaculture Systems</b><br><i>Erkan CAN, İlgi TOKACI</i>                                                                    | <b>Terrestrial and Aquatic Insect: Comparative FTIR Analysis of Cuticular Chemistry in <i>Tenebrio molitor</i> and <i>Cybister</i> spp.</b><br><i>Mehmet BEKTAS</i> |
| <b>11:45-11:55</b> | <b>Development and Challenges of Mediterranean Mussel Farming in Türkiye</b><br><i>Harun YILDIZ, Sefa ACARLI, Nihat Sami KUYUMCU</i>                                                                                                 | <b>Discussion</b>                                                                                                                                                   |
| <b>11:55-12:10</b> | <b>Discussion</b>                                                                                                                                                                                                                    |                                                                                                                                                                     |



## ONLINE ATTENDANCE (2<sup>nd</sup> DAY, 23<sup>rd</sup> of September), ORAL PRESENTATIONS

|             | Virtual Hall-1                                                                                                                                                                                                                       | Virtual Hall-2                                                                                                                                                                                                                                                                                                                                                                          |
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|             | Session Chair: Prof. Dr. Sezgin AYAN                                                                                                                                                                                                 | Session Chair: Prof. Dr. Hamda AZMAT                                                                                                                                                                                                                                                                                                                                                    |
| 13:30-13:40 | <b>Gene Conservation Strategy for Natural <i>Corylus colurna</i> L. Populations in Türkiye</b><br><u>Sezgin AYAN</u>                                                                                                                 | <b>Cytogenotoxic, Physiological and Histopathological Responses to Acute Arsenic Exposure in <i>Labeo rohita</i></b><br><u>Hamda AZMAT, Fakhira KHALID</u>                                                                                                                                                                                                                              |
| 13:40-13:50 | <b>Conservation and Sustainable Use of Turkish Hazel in Europe</b><br><u>Muhidin ŠEHO, Barbara FUSSI, Sezgin AYAN</u>                                                                                                                | <b>Mechanistic Evaluation of Dietary <i>Moringa oleifera</i> in mitigating Environmentally Relevant Arsenic-induced Oxidative, Histopathological and Genotoxic Effects in <i>Labeo rohita</i></b><br><u>Fakhira KHALID, Hamda AZMAT</u>                                                                                                                                                 |
| 13:50-14:00 | <b>Investigation of Woody Species Diversity Three Years Post-Fire in Western Guilan, Iran</b><br><u>Amer MIRZAZADEH, Hassan POURBABAEI, Maryam KAZEMPOUR LARSARY</u>                                                                 | <b>Amelioration of Metformin-induced Toxicity by Silymarin in <i>Labeo rohita</i>: A Hematological and Histological Analysis</b><br><u>Moazama BATOOL, Kainat NAEEM, Qurat Ul AIN, Saiqa RAUF, Kanwal SHEHZADI, Sehar TARIQ</u>                                                                                                                                                         |
| 14:00-14:10 | <b>Floristic Similarity Between the Soil Seed Bank and Aboveground Vegetation Across Secondary Successional Stages in the Zagros Oak Forests, Western Iran</b><br><u>Verya RAHIMI, Hassan POURBABAEI, Mehdi HEYDARI, Sezgin AYAN</u> | <b>Acute Toxicity of Household Detergent (Wings) on the Survival and Behavioral Responses of Koi Guppy (<i>Poecilia reticulata</i>)</b><br><u>Mansul H. IRIN, Al-Hafidz S. NASSAL, Baby Jana S. BEYUTA, Normaricel J. JAILANI, Camar S. KASAWALI, Dermalyn A. MAJIDUL, Raziman A. MADNURI, Sakina Loren I. SANSAWI, Munhamier I. SANSAWI, Sharifa R. JAMMANG, Albaris B. TAHILUDDIN</u> |
| 14:10-14:20 | <b>Herbaceous Species Diversity in Disturbed and Undisturbed Persian Ironwood (<i>Parrotia persica</i> C.A.Mey.) Stands In Northern Iran</b><br><u>Saman POURABBASI SHIRAZ, Hassan POURBABAEI, Ali SALEHI</u>                        | <b>Biomitigative Potential of <i>Lamellidens marginalis</i> (Lamarck, 1819) and <i>Sargassum wightii</i> (Greville, 1848) Against Copper-Induced Toxicity and Oxidative Stress in Freshwater System</b><br><u>Sweta PRADHAN, Ratna LAHA, Suman MANNA, Gouranga BISWAS, Debi Prasad KANTAL, Tapas Kumar GHOSHAL</u>                                                                      |
| 14:20-14:30 | <b>Effect of Altitudinal Gradient on the Community Structure of Wood-Inhabiting Macrofungi in the Hyrcanian Forests, Northern Iran</b><br><u>Tohid SALAHI, Hassan POURBABAEI, Mehrdad GHODSKHAH DARYAEI</u>                          | <b>Chemometric and Ecological Health Risk Assessment of a Selected Sewage-Fed Aquaculture Pond of East Kolkata Wetlands – A Ramsar Site</b><br><u>Suman MANNA, Dravid KUMAR, Sweta PRADHAN, Leesa PRIYADARSANI, Dilip Kumar SINGH, Tapas Kumar GHOSHAL</u>                                                                                                                              |
| 14:30-14:45 | Discussion                                                                                                                                                                                                                           | Discussion                                                                                                                                                                                                                                                                                                                                                                              |



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|             | Virtual Hall-1                                                                                                                                                                                                                                                                                                                                                                                              | Virtual Hall-2                                                                                                                                                                                                                                                            |
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|             | Session Chair: Assoc. Prof. Dr. Claudia PLINZ                                                                                                                                                                                                                                                                                                                                                               | Session Chair: Assoc. Prof. Dr. Ali SALEHI                                                                                                                                                                                                                                |
| 15:00-15:10 | <b>Utilization of Shellfish Waste for the Production of Chitosan and Glucosamine: A Circular Bioeconomy Approach</b><br><i>Ali Eslem KADAK, Aygöl KÜÇÜKGÜLMEZ, Mehmet ÇELİK, Claudia PLINZ</i>                                                                                                                                                                                                              | <b>Comparison of Soil Organic Carbon and Flexural Strength of Poplar in Northern Iranian Afforestation</b><br><i>Ali ALIJANPOUR SHALMANI, Ali SALEHI, Mehrdad NIKOOY, Javad TORKMAN</i>                                                                                   |
| 15:10-15:20 | <b>Flakes Outperform Pellets: Optimising Feed Physical Form for Growth and Feed Utilisation in the Golden Killifish, <i>Aplocheilus lineatus</i></b><br><i>Vidya K., Paramita Banerjee SAWANT, Gouranga BISWAS, Tincy VARGHESE, Layna P, Vikas KUMAR UJJANIA, Debajit SARMA</i>                                                                                                                             | <b>Seasonal Pattern of Groundwater Fluctuations in Planted Forest Stands in Northern Iran</b><br><i>Arman ANDISTA, Ali SALEHI, Mahmoud SHABANPOUR</i>                                                                                                                     |
| 15:20-15:30 | <b>Comparative Analysis of Prevalent Bacteria in Diseased <i>Labeo rohita</i> Cultured in East Kolkata Wetlands and Semi-Intensive Aquaculture Systems from West Bengal, India</b><br><i>Mohan MANIKANDAN, Leesa PRIYADARSANI, Gayatri TRIPATHI, Bharathi RATHINAM, Suman MANNA, Mandakini Devi HANJABAM, Sujata SAHOO, Gouranga BISWAS, Tapas Kumar GHOSHAL</i>                                            | <b>Comparison of the Effect of Sawdust Treated with Humic Acid on Some Physical and Chemical Properties of Soil in Broad-Leaved and Needle-Leaved Species</b><br><i>Maryam MIRHASSAN NIA SARABI, Ali SALEHI, Javad TORKMAN</i>                                            |
| 15:30-15:40 | <b>Effects of Dietary Probiotic (<i>Lactobacillus rhamnosus</i>) on the Growth and Feed Efficiency Response of Juvenile Tiger Grouper (<i>Epinephelus fuscoguttatus</i> Forsskal, 1775)</b><br><i>Al-Nasrif H. KISSAE, Yashier U. JUMAH, Wahaymin M. JAMIL, Gerly-Ayn J. TUPAS, Marilyn Q. AMLANI, Rizal Jhunn F. ROBLES, Shada-Wati H. KISSAE, Shardanika H. KISSAE</i>                                    | <b>The Impact of Magnesite Production on the Content of Macro - and Microelements in Birch Leaves and in the Soil</b><br><i>Viktoria GORBUNOVA, Sergei MENSNIKOV</i>                                                                                                      |
| 15:40-15:50 | <b>Influence of Dietary Kappa-Carrageenan Inclusion on Trash Fish as Feeds in the Napoleon Wrasse (<i>Cheilinus undulatus</i> Ruppell, 1835) Juvenile: Implications on Growth Performance and Survival Rate</b><br><i>Khadiza H. IMLAN, Yashier U. JUMAH, Wahaymin M. JAMIL, Marilyn I. AMLANI, Gerly-Ayn J. TUPAS, Rizal Jhunn F. ROBLES, Abdurizal A. ELDANI, Abdalnaser I. IMLAN, Raziman A. MADNURI</i> | <b>Assessing the Influence of <i>Fagus orientalis</i> and <i>Carpinus betulus</i> Coarse Woody Debris on Surrounding Soil Physicochemical Properties in a Hyrcanian Forest Stand (Kheyroud Forest, Mazandaran, Iran)</b><br><i>Afsaneh KHALILI, Mohsen Javanmiri POUR</i> |
| 15:50-16:00 | <b>Trade Dynamics, Regulatory Awareness, and Socioeconomic Dependence of Vendors Selling Dried Giant Clams (<i>Tridacna</i> spp.) in Bongao Public Market, Tawi-Tawi, Philippines</b><br><i>Raziman A. MAD-NURI, Nashateff A. ABDULKIRING, Albaris B. TAHILUDDIN</i>                                                                                                                                        | <b>Assessment of Soil Water Repellency in Forest Plantations in Western Gilan, Northern Iran</b><br><i>Maryam MALEKI, Ali SALEHI, Mahmoud SHABANPOUR, Ramin NAGHDI</i>                                                                                                    |
| 16:00-16:15 | Discussion                                                                                                                                                                                                                                                                                                                                                                                                  | Discussion                                                                                                                                                                                                                                                                |



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|             | Virtual Hall-1                                                                                                                                                                                                                                                                                                | Virtual Hall-2                                                                                                                                                                                                                                                                         |
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|             | Session Chair: Assoc. Prof. Dr. Serghei CARA                                                                                                                                                                                                                                                                  | Session Chair: Assoc. Prof. Dr. Albaris B. TAHILUDDIN                                                                                                                                                                                                                                  |
| 16:30-16:40 | Application of Rhizobium Inoculation for Enhancing Heat Stress Tolerance in Alfalfa ( <i>Medicago sativa</i> L.)<br><u>Muhammad SHERAZ</u>                                                                                                                                                                    | Effects of Inorganic Nutrient Enrichment on the Growth Performance and Production of <i>Gracilaria edulis</i> Cultured in Ponds<br><u>Albaris B. TAHILUDDIN</u> , <u>Merylin I. LAUHARI</u> , <u>Vevelinn U. KALI</u>                                                                  |
| 16:40-16:50 | Profitability and Constraints of Sugarcane ( <i>Saccharum officinarum</i> ) Production in Sumaila Local Government Area of Kano State, Nigeria<br><u>Ahmad ALHASSAN</u> , <u>Umar SHEHU UMAR</u> , <u>Kabiru YA'U ABDULLAHI</u> , <u>A'isha YAHAYA GAYA</u> , <u>Buhari NAZIFI B</u> , <u>Sabi'u MUHAMMAD</u> | Influence of Ammonium Phosphate Enrichment and Immersion Duration on the Growth and Health of Red Seaweed ( <i>Hypnea valentiae</i> )<br><u>Adzhar M. ABDUHASAD</u> , <u>Aldimar S. BARA</u> , <u>Albaris B. TAHILUDDIN</u>                                                            |
| 16:50-17:00 | Position of the Republic of Moldova in the Global Wine Market: Current Trends, Challenges and Development Prospects<br><u>Nadejda IANIOGLO</u> , <u>Serghei CARA</u>                                                                                                                                          | Biosecurity Practices in Seaweed Farming in Bongao, Tawi-Tawi, Philippines<br><u>Rosalina A. ADJAD</u> , <u>Albaris B. TAHILUDDIN</u> , <u>Alfaisa A. ADJAD</u>                                                                                                                        |
| 17:00-17:10 | Adaptation of the Viticulture and Winemaking Sector of the Republic of Moldova to Modern Climate Change Challenges<br><u>Serghei CARA</u>                                                                                                                                                                     | Agar Yield and Quality in Gracilaria: Factors Affecting Production<br><u>Merylin I. LAUHARI</u> , <u>Albaris B. TAHILUDDIN</u>                                                                                                                                                         |
| 17:10-17:20 | Evaluation of Economically Useful Traits and Adaptive Potential of Modern Poultry Crosses under Intensive Production Conditions<br><u>Alla CARA</u>                                                                                                                                                           | Effects of Different Diets on Growth Efficiency and Gonadal Maturation of Adult Female Mantis Shrimp ( <i>Lysiosquilla maculata</i> ) Cultured in Bottles in Pangutaran, Sulu, Philippines<br><u>Al-Yahsin HAMSI</u> , <u>Maila PAN</u> , <u>Ronaldo ANCHETA</u> , <u>Jhomary SALA</u> |
| 17:20-17:30 | Neuro-Ecological Approach to the Development of Irrigation<br><u>Liudmila N. MEDVEDEVA</u> , <u>Irina G. BONDARIK</u>                                                                                                                                                                                         | Seaweed Farming as a Livelihood Source in Tawi-Tawi, Philippines<br><u>Aldimar S. BARA</u> , <u>Ramadani A. NAMBI</u> , <u>Albaris B. TAHILUDDIN</u>                                                                                                                                   |
| 17:30-17:40 | Farm-Centric Diversification in a Changing Climate: Patterns, Levels and Constraints among Rural Farmers in Kano State, Nigeria<br><u>Farouk Shehu ABDULWAHAB</u> , <u>Salisu ABDULLAHI</u> , <u>Mohammed GARBA</u> , <u>Babangida HAMIDU</u>                                                                 | Ecolinguistics as an Interdisciplinary Approach to Sustainable Human-Environment Interaction<br><u>Kalina MIDYUROVA</u> , <u>Emiliya KOYCHEVA</u> , <u>Blagovesta MIDYUROVA</u>                                                                                                        |
| 17:40-18:00 | Discussion                                                                                                                                                                                                                                                                                                    | Discussion                                                                                                                                                                                                                                                                             |



## ONLINE ATTENDANCE (3<sup>rd</sup> DAY, 24<sup>th</sup> of September), ORAL PRESENTATIONS

|             | Virtual Hall-1                                                                                                                                                        | Virtual Hall-2                                                                                                                                                                                                                                                                                 |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             | Session Chair: Prof. Dr. Nüket SİVRİ                                                                                                                                  | Session Chair: Assist. Prof. Dr. Ayşenur ASLAN                                                                                                                                                                                                                                                 |
| 09:15-09:25 | <b>Effects of Slip Additives on the Physical Properties of Polypropylene Films</b><br><i>Zeynep TOPAL, Nevra ERCAN</i>                                                | <b>Trophic Distribution of Free-Living Nematodes in Potato Production Areas of Erzurum, Erzincan and Bayburt Provinces</b><br><i>Ayşenur ASLAN</i>                                                                                                                                             |
| 09:25-09:35 | <b>Influence of Soft Segment Content on the Time-Dependent Mechanical Behavior of Poly(ether-block-amide)s</b><br><i>Pinar YILMAZ, Nevra ERCAN</i>                    | <b>Antifungal Efficacy of Postbiotic and Microbial Metabolites Against <i>Penicillium digitatum</i>: Sustainable Postharvest Disease Management</b><br><i>Merve ŞENOL KOTAN, Dicle ÇİÇEK</i>                                                                                                   |
| 09:35-09:45 | <b>Impacts of Multi-Hazard Risks on Water Management in the Era of Climate Change: A Sendai Framework and SDG Perspective</b><br><i>Yağmur YONTUÇ, Nüket SİVRİ</i>    | <b>Antifungal Efficacy of Nanoparticles Produced by Green Synthesis Against Plant Pathogenic Fungi</b><br><i>Merve ŞENOL KOTAN, Dicle ÇİÇEK, Beyzanur TUTUŞ</i>                                                                                                                                |
| 09:45-09:55 | <b>Macroplastic Pressure and Its Economic Impacts in Coastal Recreational Areas: A Comparative Study on Turkish Beaches</b><br><i>Yusuf ESMER, Nüket SİVRİ</i>        | <b>Effects of Different Sowing Times on Some Morphological Characteristics and Green Forage Yield in Soybean (<i>Glycine max</i> (L.) Merrill) Varieties</b><br><i>Dilara KAYNAR</i>                                                                                                           |
| 09:55-10:05 | <b>Cigarette Butt Pollution as a Proxy for Socio-Ecological Dynamics Revealed by Brand Distribution in University Social Areas</b><br><i>Yusuf ESMER, Nüket SİVRİ</i> | <b>An Analysis of the Privatization Process of the Erzurum Sugar Factory (2013–2025)</b><br><i>Gizem Çağlar GÜLTEKİN, Okan DEMİR</i>                                                                                                                                                           |
| 10:05-10:15 | <b>The Role of Green Technologies in Reducing Plastic Waste in the Logistics Sector</b><br><i>Sebnem ERKEBAY, Arzu MORKOYUNLU, Cem ERKEBAY, Gönül KONAKAY</i>         | <b>Profitability and Efficiency of Retail Smoked Fish Marketing Before and During the Boko Haram Insurgency in Maiduguri Metropolis, Borno State, Nigeria</b><br><i>Ahmad ALHASSAN, Kabiru YA'U ABDULLAHI, Umar SHEHU UMAR, Nazir MUHAMMAD ABDULLAHI, Buhari NAZIFI B., A'isha YAHAYA GAYA</i> |
| 10:15-10:30 | Discussion                                                                                                                                                            | Discussion                                                                                                                                                                                                                                                                                     |



## ONLINE ATTENDANCE (3<sup>rd</sup> DAY, 24<sup>th</sup> of September), POSTER PRESENTATIONS

|             | Virtual Hall-1                                                                                                                                                                                                                                                          | Virtual Hall-2                                                                                                                                                                                 |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             | Session Chair: Prof. Dr. Ismahane DERAFA                                                                                                                                                                                                                                | Session Chair: Assoc. Prof. Dr. Mansur KHOLMUROTOV                                                                                                                                             |
| 10:45-10:55 | <b>Antioxidant Activity of <i>Sinapis alba</i> L. Extracts</b><br><u>Merghem MOUNIRA</u> , Nadra GHEDJATI, Manel Sabrina KADDOUR, Samira GHEDJATI                                                                                                                       | <b>Phenological Response of Male <i>Pistacia vera</i> L. Cultivars to Contrasting Natural and Climatic Conditions</b><br><u>Mansur KHOLMUROTOV</u> , Jasur NAMOZOV                             |
| 10:55-11:05 | <b>Analgesic Proprieties and Antioxidant Activity of <i>Sanguisorba minor</i> L. Collected from Eastern Algeria</b><br><u>Samira GHEDJATI</u> , Mesbah MOUNIRA, Merghem MOUNIRA, Allaoua NOURI, Hamoudi MERIEM, Boudiaf RAID, Khennouf SEDDIK, Dahamna SALLIHA          | <b>Methods for the Application of Mycorrhizal Macromycetes in Forest Plantations</b><br><u>Torebi SHARIP</u> , Alzhan KURMANGOZHINOV, Bekbolat OSSERKHAN, Sezgin AYAN                          |
| 11:05-11:15 | <b>Evaluation of the Antioxidant Activities of <i>Rhamnus alaternus</i> L. Hydromethanolic Extract and Quantification of its Phenolic and Flavonoid Compounds</b><br><u>Soulaf MEHLOUS</u> , Soulef SAOUD, Karima LOUCIF, Wafa NOUIOUA, Saliha DAHAMNA, Seddik KHENNOUF | <b>Ethnobotanical Study of <i>Ammodaucus leucotrichus</i> in the Sétif Region, Algeria</b><br><u>Nadra GHEDJATI</u> , Yousra MEHADJEBI, Dina KHERCHOUF, Sabrina Manel KADDOUR, Mounira MERGHEM |
| 11:15-11:25 | <b>Phytochemical Profile and Antioxidant Activity of the Aqueous Extract of <i>Juniperus communis</i> L</b><br><u>Ismahane DERAFA</u> , Ahlem KARBAB, Nouredine CHAREF                                                                                                  | <b>The Impact of Milk Production Technology on Milk Quality and Safety</b><br><u>Tetiana PUSHKAR</u> , Lilia KREMENCHUK, Olena BEZALTYCHNA                                                     |
| 11:25-11:35 | <b>Phytochemical Characterization and Evaluation of the Antioxidant Potential of <i>Artemisia herba-alba</i> Aqueous Extract</b><br><u>Ismahane DERAFA</u> , Ahlem KARBAB, Nouredine CHAREF                                                                             | <b>Features of The Sense of Smell in Dogs</b><br><u>Dmytro DAVYDOV</u> , Lilia KREMENCHUK, Tetiana PUSHKAR, Yevhen MOSKALU, Olena BEZALTYCHNA                                                  |
| 11:35-11:45 | Discussion                                                                                                                                                                                                                                                              | Discussion                                                                                                                                                                                     |



## ONLINE ATTENDANCE (3<sup>rd</sup> DAY, 24<sup>th</sup> of September), POSTER PRESENTATIONS

|             | Virtual Hall-1                                                                                                                                                               | Virtual Hall-2                                                                                                                                                                                                                                             |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             | Session Chair: Prof. Dr. Kateryna RODIONOVA                                                                                                                                  | Session Chair: Assoc. Prof. Dr. Yurii BOIKO                                                                                                                                                                                                                |
| 12:00-12:10 | Comparative Effects of Modified Atmosphere and Vacuum Packaging on the Storage Stability of Cooked Sausages<br><u>Kateryna RODIONOVA</u>                                     | Application of Ultrasonic Treatment in the Extraction of Active Substances from <i>Stukenia pectinata</i><br><u>Yurii BOIKO</u> , Mykhailo BROSHKOV, Yevhenii KALICHAK                                                                                     |
| 12:10-12:20 | Sustainable Valorization of Agri-Food By-Products for Obtaining Functional Ingredients Rich in Dietary Fibers<br><u>Maria-Marcela BARBAROS</u>                               | Rheumatoid Factors in Sera/Synovial Fluid Couples from Arthritis Joint Patients<br><u>Wafa CHENITI</u> , Lekhmici ARRAR, Nadjat HANACHI                                                                                                                    |
| 12:20-12:30 | Evaluation of the Gazelle Reintroduction Initiative in the Wild in Bani Walid-Libya<br><u>Mohamed Omar Abdalla SALEM</u> , Masoud A. S. LAKWANI                              | Anti Xanthine Oxidoreductase in Sera/Synovial Fluid Couples from Arthritis Joint Patients<br><u>Wafa CHENITI</u> , Lekhmici ARRAR, Nadjat HANACHI                                                                                                          |
| 12:30-12:40 | Piloting Histological and Biological Properties of <i>Potamogeton perfoliatus</i> Extract<br><u>Liudmila PEROTSKA</u> , <u>Yevhenii KALICHAK</u>                             | Polyphenol Content and Antioxidant Activity of the Aqueous Leaf Extract of <i>Rhamnus alaternus</i> L. Using the DPPH Free Radical Scavenging Assay<br><u>Soulef MEHLOUS</u> , Soulef SAOUDI, Karima LOUCIF, Wafa NOUIOUA, Saliha DAHAMNA, Seddik KHENNOUF |
| 12:40-12:50 | The Main Pest of Peas – The Peas Grain Eeder ( <i>Bruchus pisorum</i> L.)<br><u>Anna KRYVENKO</u> , Tetiana MARCHENKO, <u>Irina TRANDAFIR</u>                                | Antioxidant Potential of the Algerian <i>Centaurium erythraea</i> Chemotype: Phytochemical Profiling and In Vitro Evaluation<br><u>Sabrina Manel KADDOUR</u> , Merghem MOUNIRA, Nadra GHEDJATI                                                             |
| 12:50-13:00 | AI-Driven Marketing of Higher Education Institutions for Marine Science and the Blue Economy: The Role of Data Science<br><u>Tetiana NEBOHA</u> , <u>Kostiantyn DYADYURA</u> | Discussion                                                                                                                                                                                                                                                 |
| 13:00-13:15 | Discussion                                                                                                                                                                   |                                                                                                                                                                                                                                                            |