

Detailed Schedule of Oral and Poster Sessions

XII ECOLOGY AND EVOLUTIONARY BIOLOGY SYMPOSIUM 2026

MERSIN UNIVERSITY | MERSIN - TÜRKİYE

SESSION 1: Evolutionary and Population Genomics | 7 July 2026

Time	Title	Author
11:15 - 11:30	Temporal Genomic Data Enhances Detection of Balancing Selection but Struggles to Distinguish Its Mechanisms	Özgür Taşkent
11:30 - 11:45	Altitude Maintains Localized Genomic Divergence in a Highly Connected Montane Cricket	Ufuk Topalan
11:45 - 12:00	Evolutionary Constraints on Morphogen-Driven Cis-Regulatory Elements in <i>Drosophila</i>	Hüseyin Berkan Ortakan
12:00 - 12:15	Genetic insights into human mobility in Eurasia during the Holocene	Mehmet Somel
12:15 - 12:30	Cold Adaptation in Mammals: Mechanisms and Genomic Insights from Bats	Gamze Özbay
12:30 - 12:45	Molecular Evolution and Population Genetics of Influenza RNA Polymerase Subunits Spanning 17 Years and Five Continents	Efe Sezgin

SESSION 2: Phylogenetics/genomics | 7 July 2026

Time	Title	Author
14:00 - 14:15	First family-wide phylogeny of Grebes (Aves: Podicipedidae) from whole-genome sequences	Zeynep Oğuzhan
14:15 - 14:30	Same species, different colors: elucidating the taxonomic status of the <i>Bombus niveatus</i> Kriechbaumer, 1870 species complex using mitochondrial and nuclear gene sequences	Kerem Kaleli – Fatih Dikmen
14:30 - 14:45	Unraveling the Evolutionary History of Cryptic Large Myotis Bats	Bengisu Şensoy
14:45 - 15:00	Diversification in Globularia Species of Türkiye: A Multidisciplinary Integrative Assessment	Muhyettin Şentürk
15:00 - 15:15	Diversity, Population Structure, and Holobiont Organization of Botryllid Ascidians with a Focus on <i>Botryllus Schlosleri</i> in Relation to Environmental Parameters Along Turkish Coasts	Begüm Ece Tohumcu

SESSION 3: Biodiversity Assessment, Modelling and Biotechnological Applications | 7 July 2026

Time	Title	Author
15:45 - 16:00	Exploring Bioactive Secondary Metabolites of Didemnid species from Turkish Coasts: A New Frontier for Antimicrobial and Biotechnological Discovery	Arzu Karahan
16:00 - 16:15	Assessing Prokaryotic and Eukaryotic Biodiversity Patterns in the Arctic Ocean During Summer 2024 Based on eDNA Metabarcoding	Bilge Durgut
16:15 - 16:30	Convolutional Neural Networks improve the predictive capacity of ecosystem models in determining marine ecosystem variability under climate change in the Black Sea	Ekin Akoğlu
16:30 - 16:45	Convergent eDNA Signals Across Air, Pollen, and Honey	Pelin Taş
16:45 - 17:00	Paleoecological and Climatological Drivers of Primary Producer Pigment Variability in Lake Çinili, Taurus Mountains, Türkiye	Hasan Arslan
17:00 - 17:15	Conservation or Collection? The Ambiguous Role of Plant Repositories and Seed Banks in Biodiversity	Can Furat

SESSION 4: Marine, Coastal and Marine Ecosystems under Anthropogenic Change 8 July 2026		
Time	Title	Author
10:15 - 10:30	Chronology of Microplastic Pollution in Deep Sea Sediments of the Marmara Sea	Olgaç Güven
10:30 - 10:45	Combined effects of rising temperature and seawater intrusions on organic matter decomposition in coastal wetlands: a mesocosm approach	Md Masum Billah
10:45 - 11:00	A Photoautotroph of the Strangest Environment: Distribution of Anoxygenic Photosynthesis in the Black Sea	Zeray Ayral Gülmez
11:00 -11:15	Ecosystem Structure and Function of Coastal Mediterranean Wetlands of Türkiye And Current Anthropogenic Pressures	Korhan Özkan
11:15 - 11:30	Decade-Long Eutrophication Trends in the Eastern Mediterranean: Decoupling Climate and Anthropogenic Pressures	Mustafa Mantıkçı
11:30 - 11:45	Seasonal Distribution and Characterization of Macro-, Meso-, and Microplastic Pollution in the Datça-Bozburun Special Environmental Protection Area	Kerem Gökdağ

SESSION 5: Marine Biodiversity, Restoration and Species Interactions 8 July 2026		
Time	Title	Author
13:00 - 13:15	A Success Story of Remediation in the Sea of Marmara: Coral Transplantation in the Prince Islands and Biodiversity Gains	Yeşim Ayar
13:15 - 13:30	Investigation of Didemnid Species along the Turkish Coastlines Utilizing Genetic, Environmental and Morphological Data	İrem Bekdemir
13:30 - 13:45	Nursery Habitat Characteristics of Albacore (<i>Thunnus alalunga</i> , Scombridae) in the Eastern Mediterranean	Arzu Alçınar
13:45 - 14:00	Ichthyoplankton Assemblages of the Finike Seamounts SEPA (Eastern Mediterranean): First Baseline from 2024 Larval Survey	Sinan Mavruk
14:00 - 14:15	Emerging Keystone Roles of Poisonous Lessepsian Migrants in the Levantine Sea	Aybüke Uysal
14:15 - 14:30	The Effect of the Two-Layered Hydrography of the Sea of Marmara on the Genetic Diversity of Soft-Bottom Macrozoobenthic Species	Evrin Kalkan Tezcan

SESSION 6: Terrestrial and Freshwater Ecology 8 July 2026		
Time	Title	Author
15:00 - 15:15	Determining the Long-term Ecosystem Structural Changes of Lake Eymir Using Bayesian Inference	Gizem Aydın
15:15 - 15:30	Congruence between FlowCam Imaging and Microscopy Depends on Functional Categorization Choice in Phytoplankton Community: Case study of Salinization Mesocosm Experiment	Zeynep Dilbe Uyar
15:30 - 15:45	Response Trajectories of Freshwater Ciliate Communities Under Heatwave and Salinity Stress: Implications for Food-Web Dynamics	Hilal Aydın
15:45 - 16:00	Anthropogenic Resources Reshape Demographic Trajectories in Brown Bears	Ümmühan Ecem Akgül
16:00 - 16:15	Threshold responses of zooplankton community to freshwater salinization in a gradient mesocosm experiment	İrem Gamze Arık

SESSION 7: Microbiology/Microbial Ecology and Evolution 9 July 2026		
Time	Title	Author
10:15 - 10:30	Revealing the Assembly Processes of the Endolithic Bacterial Communities in the Atacama Desert	Melih Kaplan
10:30 - 10:45	How Gene Regulatory Networks Shape Phenotypic Diversity and Evolution in Bacterial Flagella	Murat Tuğrul
10:45 - 11:00	Activation of Transposable Elements in <i>Pseudomonas Sessilini</i> genus Biomig1 upon Exposure to Quaternary Ammonium Compounds	Rüya Üçel
11:00 -11:15	Comparative Analysis of Microbial Diversity in Archaeological Soils from the Mount Nif, İzmir	Nur Banu Bayram
11:15 - 11:30	Natural selection on the translation machinery and mRNAs in <i>Vibrio natriegens</i>	Xuhua Xia
11:30 - 11:45	Transposable elements drive adaptation in a clonally evolving cross-kingdom pathogenic fungus	Dilay Hazal Ayhan

Session 8: Paleobiology/Ancient DNA 9 July 2026		
Time	Title	Author
13:00 - 13:15	Paleogenomic Insights into Five Millennia of Population History at the Hittite Capital Hattuša (Boğazköy)	Kayra Canpolat
13:15 - 13:30	Sex-Biased Practices in Kinship and Mobility in Ancient Populations	Mehmet Doğrul
13:30 - 13:45	Exploring Oral Microbiome Patterns in Medieval Iznik (Nicaea): A Comparative Metagenomic Analysis of Diverse Cultural Populations	Ahmet Berkay Demirşen
13:45 - 14:00	A comparison of ancient DNA yields across ossicles and the petrous bone reveals the best preservation in the stapes and incus	Ekin Sağlıcan
14:00 - 14:15	Ancient Mycobacterium leprae Genomes from Anatolia and Italy Provide New Insights into the Evolution and Dispersal of Leprosy	Arda Sevkar
14:15 - 14:30	Spatiotemporal Dynamics of Holocene Vegetation in Western Anatolia: Integrating sedaDNA with Limnogeological Archives	Funda Özdemir Değirmenci

SESSION 9: Wildlife Ecology, Behaviour and Biogeography 9 July 2026		
Time	Title	Name
15:00 - 15:15	Phenotypic plasticity drives brown bear circadian rhythms in human-dominated landscapes	Ercan Sıkdokur - Alper Kağan Selçukoğlu
15:15 - 15:30	From adaptive opportunity to habitat dependency: urban bat populations and their uncertain future across Central and Eastern Europe	Anton Vlaschenko
15:30 - 15:45	Estimating Population Densities of Anatolian Mouflon in Steppes and Red Deer in Forests of Türkiye Using the Random Encounter Model and Comparing Results with Traditional Count Methods	Kemal Atakan Kavak
15:45 - 16:00	Brown bears retain wide ranging and flexible movement behavior despite stable and predictable human food sources	Ercan Sıkdokur
SHORT BREAK		
16:30 - 16:45	Unusual Behaviour in <i>Bungarus walli</i> : Amphibious Traits	Rezoana Arefine
16:45 - 17:00	Unveiling Pollinator Specialization in Scrophularia: From Floral Traits to Functional Guilds	Mert Elverici
17:00 - 17:15	Microplastics exposure in Long-eared Owl (<i>Asio otus</i>) reflects land-use differences in terrestrial ecosystems	Hikmet Hakan Kültür

Poster Sessions (Posters on display all day) 7 July 2026 17:15 - 18:00 8 July 2026 18:00 - 18:30		
#	Title	Author
1	Beyond Abundance: Polymer Composition Drives Ecological Risk of Microplastics in a Ramsar-Connected Freshwater System	Ülkü Nihan Yazgan Tavşanoğlu
2	Above and Below the Halocline: Stratification-Driven Contrasts in Coastal Benthic Life	Yaprak Gürkan
3	Temporal dynamics of dental caries-associated genetic variants in ancient Anatolia	Ceyda Hop
4	Shared Diet, Divergent Microbiomes: Integrated 12S and 16S rRNA Metabarcoding of Grey Wolves (<i>Canis lupus</i>) from Yenice Forests, Türkiye	Alyoşa Sezer
5	Effects of mismatch repair on genome-wide mutations in <i>Haloferax volcanii</i>	Sibel Küçükıyıldırım
6	Isolation and Lytic Activity of Environmental Bacteriophages Against ESBL-Producing Extraintestinal Pathogenic <i>Escherichia coli</i> (ExPEC)	Ecegül Kulubecioğlu
7	Prevalence and Diversity of Blood Bacteria in Bat Species of Türkiye	Aygün Karaçay
8	Temporal and spatial patterns of road crossings behavior in brown bears across Northeastern Türkiye	Ercan Sıkdokur
9	Time-series analysis of autoimmune-related loci in Ancient Anatolia and Europe	Nureda Kocaaydın
10	Metabolic Specialization and Complementarity in the Gut Microbiome of <i>Halyomorpha halys</i> (Brown marmorated stink bug)	Hasan Sevgili
11	Horses at the Crossroads: Mobility, Breeding, and Ritual in the Bronze and Iron Age Carpathian Basin	Elifnaz Eker
12	Tracing Insect Pollinators via Flower-Based eDNA Metabarcoding: Pitfalls and Limitations	Gülseli Kırıl
13	Comparative Analysis of Istanbul's Avian Biodiversity through Urban Acoustic Monitoring	Alhas Can Arslan
14	Feeding Strategy of Harbour Porpoise (<i>Phocoena phocoena</i>) in the Black Sea Revealed by eDNA Metabarcoding	Ayşegül Er Gökçe

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#	Title	Author
15	Phylogenomic Resolution of Taxonomic Complexity in Anatololacerta (Squamata: Lacertidae) Using Genome-wide SNPs	Kamil Candan
16	The Effects of YY1 and CTCF Insulator Protein Interactions with the ZEB2 Regulatory Region on Brain Development in Great Apes	Sibel Pınar Odabaş
17	Response of Littoral Epilithic Communities to Experimental Warming in an East Mediterranean Coastal Marine System	Onat ARIKAN
18	Archaeogenomic analysis of the Chalcolithic samples from Tell Kurdu	Nikola Petkovic
19	Spatiotemporal dynamics of urban bird occupancy in Istanbul: A multi-species modeling approach	Serra Güneş
20	Molar Morphotypes of Anatolian Chionomys (Mammalia: Rodentia) Species	Rabia Çil
21	Litter Flammability in Mediterranean Ecosystems: Species and Site Effects	Nursema Aktepe
22	Evaluating and Predicting the Impacts of Climate Change on Ascidian Distribution: From Local to Regional Scales (EPICA)	Arzu Karahan
23	Evaluating mismatch profile distributions for inferring genetic similarity in ancient mtDNA	Evren Kingir
24	Sequence-Based Comparison of Antifreeze Protein Features with Proteostasis-Related Proteins in Drosophila Aging	Batı Vanlı
25	Nonlinear patterns in seed mass of plant communities with increasing productivity and elevation in Central Anatolia	Berna Yavuz
26	Adaptive Strategies of Scorpions in Extreme Environments An Evolutionary Ecology Perspective	Mehmet Tolga Kaplan
27	The Overlooked Microbiome in Fire Ecology: Global Patterns, Biases, and Knowledge Gaps	Bedirhan Avdancı
28	Microhabitat Selection During Overwintering in the Brown Marmorated Stink Bug (Halyomorpha halys)	Hasan Sevgili
29	Habitat-associated restructuring of bird co-occurrence networks across time in an urban landscape	Pınar Akbaba
30	Beyond What We See: Pollen Metabarcoding Reveals Dynamic Plant Diversity Patterns	Pelin Taş
31	A preliminary paleogenomic investigation of Anatolian big cats	Nisan Yıldız
32	Post-Fire Community Dynamics of Scorpions (Arachnida: Scorpiones) Under Different Restoration Treatments in Pinus brutia Forests	Fatmanur Uslu
33	Soil Regeneration and Plant Growth After Forest Fires: The Effects of Organic and Chemical Fertilizers on Paulownia Plants	Şükran Yıldız
34	Early transcriptomic response of Aedes albopictus larvae to Cry4Ab toxin exposure	Muzaffer Arıkan
35	Preliminary Molecular Phylogenetic Results from Turkish Tanacetum (Asteraceae) species based on Nuclear ITS and ETS and Chloroplast rpl32-trnLUAG and ndhF Markers	Emine Büşra Mülâyim
36	Ecological Niche Modelling of Invasive Alien Species in Türkiye: An Ensemble Approach Under Current and Future Climate Scenarios	Eren Zaman
37	Thermal Drivers of Trophic Synchrony: How Spring Warming Shapes Great Tit Breeding in Central Anatolia.	Kadirhan Kılınç
38	Preliminary results on breeding success, dispersal and parasite occurrence in a population of Eurasian Goshawks in Ankara	Elif Çoban
39	Zooplankton community responses to environmental gradients in shallow Turkish lakes: Eymir and Mogan	Halime Karatoprak
40	Bacterial Community Assembly and Succession Dynamics of Polyethylene Terephthalate-Associated Marine Biofilms Across Contrasting Environmental Contexts	Açelya Eren
41	Ecosystem Services of the Turkish Avifauna: A National and Regional-Scale Analysis of Functional Traits and Conservation Status	Şimal Bayrak
42	Nutrient Loads Flowing from the Susurluk Basin to the Sea of Marmara in 2022–2023	Serhat Ertuğrul
43	Machine Learning-Based Forest Fire Risk Prediction in Türkiye	Şahin Öztürk
44	Spatiotemporal Changes in Species-Level Avian Relative Abundance Across Istanbul Using eBird Data and Generalized Additive Models	Gamze Gürsoy Demirkol
45	Assessment of the Cumulative Effects of Temperature, Salinity, and Zinc on Daphnia pulex	Arda Yalsız
46	Comparative Transcriptome Analysis of Aging in Botryllid Ascidians	Esra Öztürk
47	Longitudinal dynamics of the gut microbiome across the lifespan of a short-lived vertebrate host	Ulaş Işıldak
48	Benchmarking ROH detection with imputation	Eren Yüncü
49	Exploring the Coverage-Dependent Robustness of Haplotype-Based Selection Scans in Imputed Ancient DNA	Begüm Rümeyşa Karadaş
50	Molecular Characterization of Extended-Spectrum Beta-Lactamase and Carbapenemase Genes in Escherichia coli and Klebsiella pneumoniae Isolates Causing Urinary Tract Infections	Hülya Servi

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#	Title	Author
51	Temperature-driven transcriptomic variation in <i>H. volcanii</i>	Sibel Küçükyıldırım
52	Human vs. Machine: Testing a Deep Learning Model for Benthic Diatom Taxonomy	Betül Bitir Soylu
53	Phytoplankton Community Structure of a High-Altitude Glacial Lake in Eastern Türkiye	Md Masum Billah
54	Global patterns and methodological biases in terrestrial fauna microplastics exposure	Rahan Özer
55	Metabarcoding-based Forensic Investigation of Illegal Wildlife Hunting and Trafficking in Türkiye	Sude Nalbant
56	Investigation of resistance genes in colistin-resistant <i>Klebsiella pneumoniae</i> strains and in vitro evaluation of antibiotic combinations	Ceren CANATAR
57	Seasonal Trophic Dynamics and Dietary Plasticity of Pike (<i>Esox lucius</i>) in a Temperate Freshwater Reservoir (Salmanlı Dam Lake, Türkiye)	Deniz Ayas
58	Adaptive Strategies of Cyanobacteria along Environmental Stress Gradients	Özgür Eren ZARİÇ
59	Growth, reproductive traits and life-history patterns of three <i>Spicara</i> species (<i>S. flexuosa</i> , <i>S. maena</i> and <i>S. smaris</i>) from the central Algerian coast (Southwestern Mediterranean)	Samira Boufersaoui
60	Germination niches of three species from the saline steppes of Central Anatolia: <i>Gypsophila ob lanceolata</i> , <i>Alhagi maurorum</i> , and <i>Limonium tamaricoides</i>	Cansu Baran
61	Role of population genomics in vector control	Miss Namrta
62	A Colonial Tunicate on <i>Posidonia oceanica</i> : Morphological and ecological findings from the coast of Cyprus.	Nalin Dora
63	Zooplankton community responses to environmental gradients in shallow Turkish lakes: A trait-based approach using body size and biomass	Halime Karatoprak
64	Deciphering Microbial Network and Keystoneness with Metagenomics and Deep Learning	Muhsin Akdoğan
65	Genome size: Did flight loss relax genome size constraints in birds?	Zeynep Oğuzhan
66	Possible HLA-Haplotype Frequency Relationship of the Human Papilloma Virus L1 Protein Shared Sequences of Human	Yekbun Adıgüzel
67	Co-burial of Two Males in Medieval Sardis: Insights into Violence, Mobility, and Early Turkic Presence in Western Anatolia	Vagif Mammedzada
68	Heavy Metal Accumulation and Effects on Hatching Success in Green Turtle (<i>Chelonia mydas</i>)	Aysu Kumsal Kargı
69	Mitochondrial DNA Copy Number (mtDNAcn) as a Functional Biomarker for Seascape Genetics	Sümeyra Zeynep Çalıcı
70	Diatom Dominance and Phytoplankton Pigment Dynamics During a Mucilage-Ongoing Period in İzmit Bay of the Sea of Marmara	Yaprak Gürkan
71	A phylogenomic perspective on the expansion, relictualism, and disruptive diversification pattern in blind mole rats (<i>Spalacinae</i>)	Alexey Yanchukov
72	Effects of Post-Fire Management Practices on Ant (Hymenoptera: Formicidae) Populations in Turkish Pine (<i>Pinus brutia</i> Ten.) Forests in the Mediterranean Climate Region at the Functional Groups Level	Eyyüp Can Bardak
73	Camera Trapping Coupled with Field Sign Survey Reveal the Mammalian Diversity and Abundance at Murree-Kotli Sattiankahuta National Park, Pakistan	Shehnila Kanwal
74	Human Footprints in the Wild: Evaluating Microplastic Contamination in the Brown Bears	Ercan Sıkdokur
75	Transcriptomic Effects of Mars-Relevant Salt Stress in <i>Halobacterium salinarum</i>	İsa Doğan
76	Group characteristics of bottlenose dolphin (<i>Tursiops truncatus</i>) mother-calf units along the Zonguldak coast, Black Sea	Ayshirin Seyidova
77	Temporal Dynamics of the Dental Caries-Associated Oral Microbiome in Ancient Anatolia	Şevvak Aktürk
78	Implementation of a Low-Cost Automated Flux Chamber System for Continious Greenhouse Gas Monitoring in the Göksu Delta and Experimental Mesocosms	Kaan Antmen
79	Impact of Salinity Fluctuations on Coastal Lake Metabolism: Coordinated Field Observations and a Mesocosm Experiment Using the Diel Oxygen Technique	Bilge Gülsen Baş
80	Breeding Success of Charadriiformes in the Gediz Delta, İzmir: Nest Parameters, Environmental Factors, and Habitat Dynamics	Melis Özerbil
81	Pushing the Limits of aDNA Analysis: Optimizing hapROH for the Denser 1000 Genomes SNP Panel to Improve ROH Detection at Ultra-Low Coverages	Kanat Gürün
82	Creating Pondscapes as Nature-Based Solutions in an Urban Setting on the METU Campus	Ayşegül Eda Sonyürek