

# August 5, 2015

17:00 - 20:00 Registration

# August 6, 2015

08:30 - 09:00 Registration

## Session 1

### Chair: Ayşegül Birand

09:00 - 09:15 Opening remarks

09:15 - 10:15 Sergey Gavrilets - Collective action and the collaborative brain

10:15 - 10:30 Ismail K. Saglam - Phylogenomic reconstructions predicts a single unique event leading to the origin of two icons of science Devils' Hole and Devils Hole Pupfish

10:30 - 10:45 Tutku Aykanat - Age at maturity in 56 Atlantic salmon populations is controlled by a single large effect locus with sex dependent dominance

10:45 - 11:15 Coffee break

## Session 2

### Chair: Çağatay Tavşanoğlu

11:15 - 11:30 Ahmet Tuncer Durak - Individual based modeling of future prevalence of Lyme disease vectors in Turkey

11:30 - 11:45 Arzu Karahan - Population genetics features of an invasive Tunicate time series samples in a central Californian marina

11:45 - 12:00 Burak Avci - Ecophysiology of *Reinekea forsetii* - the representative of a highly clonal and opportunistic gammaproteobacterium population recurrently associated with North Sea spring phytoplankton blooms

12:00 - 12:15 Mustafa Yücel - Functioning of marine chemosynthetic ecosystems: A biogeochemistry perspective

12:15 - 12:30 Meryem Beklioglu - Impact of climate and nutrient enrichment on ecology of shallow lakes of Turkey using multiple approaches

12:30 - 12:45 Kahraman İpekdal - Analyzing dynamics of a hybrid zone and testing endosymbiont hypothesis

12:45 - 13:45 Lunch

## Session 3

### Chair: Erol Akçay

13:45 - 14:00 Çağlar Akçay - Aggressiveness, reliable signaling and survival in a songbird

14:00 - 14:15 Cansu Çetin - Cytonuclear discordance in the Marbled Crab, *Pachygrapsus marmoratus* (Fabricius, 1787) along the Mediterranean coasts of Turkey

14:15 - 14:30 Gönensin Ozan Bozdog - A screen for the Bateson-Dobzhansky-Muller incompatibility regions in yeast

14:30 - 14:45 İrem Sepil - Interaction between insulin signaling and exposure to males mediates female lifespan and fitness in *Drosophila melanogaster*

14:45 - 15:00 Jamie Winternitz - Examining the evidence for MHC-dependent mate selection in humans and non-human primates

15:00 - 15:15 Murat Tugrul - Evolution of gene regulation: Dynamics of transcription factor binding site evolution

15:15 - 15:45 Coffee break

## Session 4

### Chair: Can Bilgin

- 15:45 - 16:00 Ayça Omrak - The first genomic data from Anatolia and its impacts on European Neolithics
- 16:00 - 16:15 Eren Yüncü - A study on swordfish populations of Turkey's Mediterranean and Aegean Seas, along with ancient samples by using mitochondrial DNA (mtDNA) and microsatellite markers
- 16:15 - 16:30 Recep Özgür Taskent - Neanderthal introgression into Western Asian human populations
- 16:30 - 17:30 Resit Akcakaya - Species extinctions: prediction, understanding, prevention
- 17:30 - 20:30 Poster sessions (titles of the posters and the names of the presenters are given below) and Cocktail

August 7, 2015

## Session 1

### Chair: Mehmet Somel

- 09:00 - 10:00 Rasmus Nielsen - The genetic basis of human physiological adaptation
- 10:00 - 10:15 Andrea Migliano - Evolution of hunter-gatherers distinctive social structure, equality and cooperation
- 10:15 - 10:30 Gul Deniz Salali - Sharing of plant knowledge and its implications on resilience in Mbendjele BaYaka hunter-gatherers of the Congo Basin
- 10:30 - 10:45 Erol Akçay - Partner choice in symbiotic mutualisms: The role of population structure
- 10:45 - 11:15 Coffee break

## Session 2

### Chair: Meryem Beklioğlu

- 11:15 - 11:30 Istem Fer - East African vegetation under the influence of tectonic uplift
- 11:30 - 11:45 Eren Ada - Asia Minor: A pleasant refuge during tough times
- 11:45 - 12:00 Burak Pekin - Plant-herbivore interactions in a forested rangeland
- 12:00 - 12:15 Kanat Gürün - A thorough investigation of the phylogeography and evolutionary history of *Miniopterus schreibersii* (Mammalia: Chiroptera) with new microsatellite data
- 12:15 - 12:30 Emrah Çoraman - Intraspecific lineages might respond differently to climate change: Evidence from past and present range expansion of Kuhl's Pipistrelle
- 12:30 - 12:45 Mert Kükreer - Genetic impact of anthropogenic factors on honey bee diversity in Turkey
- 12:45 - 13:45 Lunch

## Session 3

### Chair: Hakan Gür

- 13:45 - 14:00 Nicolas Schtickzelle - Dispersal in a bottle: movement ecology of *Tetrahymena thermophila* ciliates
- 14:00 - 14:15 Melis Akman - Transcriptome sequencing reveals population differentiation in gene expression linked to functional traits and environmental gradients in South African shrub *Protea repens*
- 14:15 - 14:30 Çagatay Tavsanoglu - Fire-dependent seed germination in rare annual *Chaenorhium rubrifolium* (Scrophulariaceae)
- 14:30 - 15:30 Daniel Simberloff - Biological invasions: Many impacts, much research, and some controversies
- 15:30 - 15:45 Student award announcement and closing remarks
- 15:45 - 17:30 Visit Museum of Anatolian Civilizations / Annual Meeting of the Society for Ecology and Evolutionary Biology, Turkey

# Poster Presentations

Posters are sorted according to the presenting authors' last names.

1. Yekbun Adıgüzel\* - Information theoretic approach for the DNA size and the protein length relation
2. Çiğdem Akın Pekşen\*, J.H. Grau, A.J. Poustka, T. Uzzell, C.C. Bilgin, J. Plötner - Characterization and molecular evolution of the serum albumin gene of the pool frog, *Pelophylax lessonae*
3. Y. Bayrakçı, Dinçer Ayaz\*, B.Y. Yakın, K. Çiçek, C.V. Tok - Some population characteristics of Western Caspian Turtle, *Mauremys rivulata* (Valenciennes, 1833) from Gökçeada (Imbros), Turkey
4. Hasan H. Başibüyük\*, M.N. Ördek, S. Durel and I. Sarı - Putative function of mitochondrial tandem repeat sequences in stem borers (Cephalidae: Hymenoptera)
5. İsmail Bekar\*, Ç. Karacaoğlu, M. Türkeş, Ç. Tavşanoğlu - The role of natural and anthropogenic drivers shaping current fire regimes in the Mediterranean-type ecosystems of Turkey: A project proposal
6. Gizem Bezirci\*, S. Sayer, A. Çakıroğlu, E.E. Levi, H. Bennion and M. Beklioğlu - Ecological reconstruction of trophic state of Turkish shallow lakes using diatom sub-fossils
7. Zirve Yiğit, Ahmet Karataş, Raşit Bilgin\* - Cataloging the genetic diversity of bats (Order: Chiroptera) in Turkey
8. Tuba Bucak\*, D. Trolle, H.E. Andersen, H. Thodsen, A. İ. Çakıroğlu, Ş. Erdoğan, M. Beklioğlu - Future water availability of the largest freshwater lake of Turkey is at great risk
9. Emel Çakmak\*, Ç. Akın Pekşen, C.C. Bilgin - Gender determination in 77 bird species using CHD gene
10. Hazal Çalışkan\*, B. Efecik, A. Turan, M. Dizemen, N.C. Özcan, O. Düzgün, D. Aygün, E.D. Özsoy - Age and sex related change in the heritability of locomotor behaviour in *Drosophila melanogaster*
11. Cansu Çetin\*, A. Furman, R. Bilgin, E. Kalkan - Cytonuclear discordance in the Marbled Crab, *Pachygrapsus marmoratus* (Fabricius, 1787) along the Mediterranean coasts of Turkey **ORAL PRESENTATION**
12. Kerim Çiçek\*, D. Ayaz - Does the red-eared slider (*Trachemys scripta elegans*) breed in Turkey?
13. Özgül Doğan\*, B. Temel, B. Aydemir, E.M. Korkmaz, H.H. Başibüyük - The complete mitogenome in *Corynis lateralis* (Hymenoptera: Cimbicidae)
14. Melike Dönertaş\*, Ö. Gizlenci, M. Somel - Investigation of tumor suppression systems in long-lived mammalian transcriptomes
15. Canan Dülgeroğlu\*, O. Ünal - A preliminary intra phylogeny of the genus *Sideritis* by morphology
16. Zeynep Ersoy\*, T. Bucak, E. Levi, M. Beklioğlu, E. Papastergiadou, K. Stefanidis, T. Nöges, T. Feldmann, J. Hejzlar, M. Sorf, D. Baho, C. Trigal, U. Scharfenberger, A. Mahdy, M. Søndergaard and E. Jeppesen - Impact of nutrient and water level changes on submerged macrophytes along a latitudinal gradient: A Pan-European mesocosm experiment
17. Ayshin Ghalichi\*, E. Özkurt, M. Somel - The effect of coding sequence and expression polymorphism in testis specific genes in primates
18. Anders Götherström\* - ATLAS and the cosmopolitan town Sigtuna in Lake Mälaren Valley
19. Egemen E. Güler\*, C. Ün - Analyzing of conserved miRNAs on ruminants by computational approaches
20. Hakan Gür\* - The Anatolian Diagonal revisited: an environmental barrier to dispersal?
21. M.C. Unal, Deniz İnnal\*, K. Cívánová, M. M. Stavrescu-Bedivan, B. Koubková - Occurrence of gill parasites in the Turkish endemic fish, *Squalius fellowesii* (Cyprinidae); including new host records
22. Deniz İnnal\*, A. Avenant-Oldewage, Bugrahan Dogangil - Infestation of *Lernaea cyprinacea* (Copepoda: Lernaeidae) in two endemic and one non indigenous fish species from Düger Spring Creek (Burdur-Turkey)
23. Mahmut Kabalak\*, İ.K. Sağlam - Molecular phylogeny and divergence time estimates for the family Elateridae (Insecta: Coleoptera)
24. Gökçe Kalankan\*, D.U. Saraç, A. Egemen, N. Yıldırım and A. Ergül Bozkurt - The restraint of some exotic plant taxon over natural vegetation and utilization of these taxon by local population (case study of Trabzon)
25. Gökhan Kalaycı\*, Y. Bektaş, D. Turan - Phylogenetic analysis of *Petroleuciscus* species distributed in Turkey
26. Mutlu Kart Gür\*, G. Cornelissen, C.L. Gierke, H. Gür and T. Kankılıç - An ecophysiological study: Time patterns of body temperature in Anatolian ground squirrel before hibernation
27. Pınar Kavak\*, E. Çakmak, C.C. Bilgin - Breeding ecology of two Tit species (Paridae) at METU campus: The importance of nest predation
28. Duygu Deniz Kazancı\*, Ç. Tavşanoğlu - Patterns of post-fire germination in Mediterranean plants of Turkey
29. M. Çişel Kemahlı\*, A. Birand - The role of biotic interactions in determining species ranges

30. Uğur Kezik\*, F. Kocaçınar - Eco-physiological functioning of oak coppices in southeast terrestrial ecosystems in Turkey
31. Gülşah M. Kılıncı\*, F. Özer, A. Omrak, R. Yaka, N.D. Dağtaş, E. Yüncü, S.C. Açıkan, A.M. Büyükkarakaya, Y. Erdal, E. Bıçakçı, D. Baird, I. Hodder, C. Knüsel, C. Larsen, Ö. Taşkent, M. Dönertaş, C. Alkan, M. Jakobsson, M. Somel, A. Gotherstrom, I. Togan - Genomic investigation of the Neolithic Revolution in Near East
32. Dilek Koptekin\*, L.Y. Aktaş - Computational identification of conserved miRNAs and their target genes in faba bean (*Vicia faba*)
33. Necla Koralay\*, O. Kara and U. Kezik - Effects of river type hydropower plants on some water quality parameters
34. M. Budak, M. Güler, F. Tokgöz, S. Hastaoğlu Örgen, E. Mahir Korkmaz\*, Hasan H. Başbüyük - Identification of Tenthredopsis (Hymenoptera: Symphyta) species based on predicted ITS2 secondary structure
35. Ahmet Efe Köseoğlu\*, Z. Osmanlı, M. Uslupehlivan, C. Ün - Bioinformatic analysis of Conus species-Conotoxin to understand evolutionary diet-toxin modification interactions
36. Gülşah Köseoğlu\*, T. Ergül Kalaycı, Y. Kalkan, B. Karaca, L. Tümkaya, N. Özdemir - Effects of ammonium sulfate exposure on *Bufo bufo* tadpoles gonadal histopathology
37. Sibel Küçük Yıldırım\*, H. Long, W. Sung, S.F. Miller, M. Lynch - Spontaneous mutation rate and spectrum in mismatch repair-deficient *Mycobacterium smegmatis*
38. Eti Levi\*, S. Turner, G. Bezirci, A. Çakıroğlu, M. Kernan, H. Bennion, E. Jeppesen and M. Beklioğlu - Effect of water level change on sedimentary proxies: Lakes Beyşehir, Marmara and Uluabat
39. Carla Lopes\*, M. De Barba, F. Boyer, C. Mercier, D. Galiano, B. Kubiak, P. Filho, L. Gielly, E. Coissac, T. Freitas, P. Taberlet - Resource availability versus resource use: diet assessment of subterranean rodents using DNA metabarcoding
40. ~~Ferhat Matur\* - A new hypothesis for why mole rats have so many cytotypes~~ CANCELLED
41. Hilal Özkılıncı\*, F. Rotondo, B.M. Pryor and T.L. Peever - Species boundaries of an asexual fungal genus
42. Murat Öztürk\*, A. Ergül Bozkurt and N. Yıldırım - The effect of *Buddleja davidii* on dendroflora in Degirmendere Valley (in Trabzon)
43. Barış Özudoğru\*, S. Erik, G. Akaydın Phylogeography of Anatolian diagonal endemic *Ricotia aucheri* (Boiss.) Burt. (Brassicaceae)
44. Huma Shehwana\*, Ö. Konu - Statistical analysis of expression divergence in paralogous zebrafish genes
45. Perinçek Seçkinozan Şeker\*, E. Çolak - Phylogeography of the water vole, *Arvicola amphibius* (Mammalia: Rodentia) in Turkey
46. Ercan S. Ünlü, D.M. Gordon, Murat Telli\* - Small RNA sequencing based identification of microRNAs in *Daphnia magna*
47. Zeliha Gözde Turan\*, P. Parvizi, M. Somel - Transcriptome conservation changes during mammalian brain aging
48. Onur Uluar\*, C. Elverici, E. Ada, U. Perктаş - The Pleistocene history of a passerine bird species: phylogeography and ecological niche modeling of the blackcap
49. Reyhan Yaka\*, C. Berkman, S. Gündüzalp, Y. Yılmaz, M. Somel, A.E. Özdoğan, İ. Togan - Ancient DNA Isolation and mtDNA Analysis of approximately 2500-year-old Human Teeth and Phalanx Samples from Çemialo/Batman in Southeastern Anatolia
50. Can Yenyurt\*, S. Opper, S. İsfendiyaroğlu, C. Bowden - Breeding and foraging ecology of semi-wild Northern Bald Ibis (*Geronticus eremita* Linnaeus, 1758) in Turkey
51. Nebahat Yıldırım\*, A. Ergül Bozkurt, İ. Turna, E. Doğan and E. Benli - The morphology and ecology of *Cyclamen coum* var. *coum* (Trabzon-Solaklı Basin Example)
52. Gizem Yılmaz\* - Threatened raptor species in Turkey