

## Ecology and Evolutionary Biology Society of Turkey

The Society, established in 2015, aims to promote scientific research in the fields of ecology and evolutionary biology in Turkey.

Specifically, our goals are:

1.

To unite researchers of ecology and evolution under the same organization,

2.

To encourage young scientists' to choose these areas and support them in their education and training,

3.

To further scientific research in these areas in Turkey, both qualitatively and quantitatively.

We are a community of mostly young researchers in ecology and evolutionary biology. About half of our membership work within Turkey, the other half being students or faculty abroad. Society members also include researchers of foreign citizenship working in Turkey.

**Recent research articles by Society members:**

2016

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47. "Plasticity and regeneration of gonads in the annelid *Pristina leidyi*." **Özpolat BD**, Sloane E, Zattara EE, Bely AE (2016).

*EvoDevo*,

[doi:10.1186/s13227-016-0059-1](https://doi.org/10.1186/s13227-016-0059-1)

46. "Long-term trends and temporal synchrony in lake plankton richness, diversity and biomass driven by re-oligotrophication and climate across 17 Danish Lakes". **Özkan K**, Jeppesen E, Bjerring RB, Johansson LS, Davidson TA, Søndergaard M, Lauridsen TL, Svenning JC (2016).

*Water*

[doi:10.3390/w8100427](https://doi.org/10.3390/w8100427)

45. Flegontov P, Changmai P, Zidkova A, Logacheva MD, **Altınışık NE**, Flegontova O, ... & Neretina T (2016). Genomic study of the Ket: a Paleo-Eskimo-related ethnic group with significant ancient North Eurasian ancestry.

*Scientific Reports*

[doi:10.1038/srep20768](https://doi.org/10.1038/srep20768)

44."Insulin signalling mediates the response to male-induced harm in female *Drosophila melanogaster*". **Sepil I**, Carazo P, Perry JC & Wigby S (2016). *Scientific Reports*, [doi:10.1038/srep30205](https://doi.org/10.1038/srep30205)

43."Inbreeding removes sex differences in lifespan in a population of *Drosophila melanogaster*." Carazo P, Green J, **Sepil I**, Pizzari T & Wigby S (2016). *Biology Letters*, [doi:10.1098/rsbl.2016.0337](https://doi.org/10.1098/rsbl.2016.0337)

42."From population genomics to conservation and management: a workflow for targeted analysis of markers identified using genome-wide approaches in Atlantic salmon *Salmo salar*."

**Aykanat T**

, Lindqvist M, Pritchard VL & Primmer CR (2016).

*Journal of Fish Biology*

.  
[doi:10.1111/jfb.13149](https://doi.org/10.1111/jfb.13149)  
.

41. "Developmental and molecular biology of annelid regeneration: a comparative review of recent studies." **Ozpolat BD** & Bely AE (2016). *Current Opinion in Genetics & Development*. [doi:10.1016/j.gde.2016.07.010](https://doi.org/10.1016/j.gde.2016.07.010)

40. "The Anatolian diagonal revisited: Testing the ecological basis of a biogeographic boundary." **Gür H** (2016). *Zoology in the Middle East*. [doi:10.1080/09397140.2016.1226544](https://doi.org/10.1080/09397140.2016.1226544) .

39. "Recent evolution of the salivary mucin MUC7." Xu D, Pavlidis P, Thamadilok S, Redwood E, Fox S, Blekhman R, Ruhl S & **Gokcumen O** (2016). *Scientific Reports*. [doi:10.1038/srep31791](https://doi.org/10.1038/srep31791)

38. "Exceptional maternal lineage diversity in brown bears (*Ursus arctos*) from Turkey." **Çilingir FG**

Akın Pekşen Ç, Ambarlı H, Beerli P & Bilgin CC (2016).

*Zoological Journal of the Linnean Society*.

[doi:10.1111/zoj.12322](https://doi.org/10.1111/zoj.12322)  
.

37. "Measuring the impact of the pet trade on Indonesian birds." Harris JBC, Tingley MW, Hua F, Yong DL, Adeney JM, Lee TM, Marthy W, Prawiradilaga DM, **Sekercioglu CH**, Suyadi, Winarni N & Wilcove DS (2016).

*Conservation Biology*

.  
[doi:10.1111/cobi.12729](https://doi.org/10.1111/cobi.12729)

36. "The Demographic Development of the First Farmers in Anatolia." **Kılınç Gülşah M**, Omrak A, Özer F, Günther T, Büyükkarakaya Ali M, Bıçakçı E, Baird D, Dönertaş Handan M, Ghalichi A, Yaka R, Koptekin D, Açıan Sinan C, Parvizi P, Krzewińska M, Daskalaki Evangelia A, Yüncü E, Dağtaş Nihan D, Fairbairn A, Pearson J, Mustafaoğlu G, Erdal Yılmaz S, Çakan Yasin G, Togan İ,

**Somel M**

, Storå J, Jakobsson M & Götherström A (2016).

*Current Biology*

[doi:10.1016/j.cub.2016.07.057](https://doi.org/10.1016/j.cub.2016.07.057)

(See also:

[1](#)

,  
[2](#)

).

35. "Vultures." Buechley ER & **Sekercioglu CH** (2016). *Current Biology*. [doi:10.1016/j.cub.2016.01.052](https://doi.org/10.1016/j.cub.2016.01.052).

34. "The avian scavenger crisis: Looming extinctions, trophic cascades, and loss of critical ecosystem functions." Buechley ER & **Şekercioğlu ÇH** (2016). *Biological Conservation*. [doi:10.1016/j.biocon.2016.04.001](https://doi.org/10.1016/j.biocon.2016.04.001)

33. "The Rate and Spectrum of Spontaneous Mutations in Mycobacterium smegmatis, a Bacterium Naturally Devoid of the Postreplicative Mismatch Repair Pathway." **Kucukyildirim S**, Long H, Sung W, Miller SF, Doak TG, Lynch M (2016).

*G3*

(

*Bathesda*

).

[doi: 10.1534/g3.116.030130](https://doi.org/10.1534/g3.116.030130)

32. "Conservation of a new breeding population of Caucasian lynx(*Lynx lynx dinniki*) in eastern Turkey." Chynoweth MW, **Çoban E** & **Şekercioğlu ÇH** (2015). Turkish Journal of Zoology. [doi: 10.3906/zoo-1405-10](https://doi.org/10.3906/zoo-1405-10)

31. "Updating the Europe–Africa small mammal exchange during the late Messinian." Garcia-Alix A., Minver-Barakat R., Martin-Suarez E., Freudenthal M., Aguirre J., **Kaya F.** (2016) *Journal of Biogeography*

.

[doi: 10.1111/jbi.12732](https://doi.org/10.1111/jbi.12732)

30. "Magnetostratigraphy and paleoecology of the hominid-bearing locality Corakyerler, Tuğlu Formation (Çankiri Basin, Central Anatolia)." **Kaya F.**, Kaymakci, N., Bibi F., Eronen JT., Pehlevan C., Erkman AC., Langeris C., Fortelius M. (2016).

*Journal of Vertebrate Paleontology*

.

[doi: 10.1080/02724634.2015.1071710](https://doi.org/10.1080/02724634.2015.1071710)

29. "Wolf diet in an agricultural landscape of north-eastern Turkey." Capitani C, Chynoweth M, Kusak J, **Çoban E** & **Şekercioğlu ÇH** (2016). *Mammalia*. [doi:10.1515/mammalia-2014-0151](https://doi.org/10.1515/mammalia-2014-0151) .

28. "Omnivory in birds is a macroevolutionary sink." Burin G, Kissling WD, Guimaraes PR, Jr., **Şekercioglu CH** & Quental TB (2016).

*Nature Communications*

.

[doi:10.1038/ncomms11250](https://doi.org/10.1038/ncomms11250)

27. "Potential mechanisms for the tropical copepod *Notodiaptomus* tolerate *Microcystistoxicity*."

**Ger KA**

, Leitao E & Panosso R (2016).

*Journal of Plankton Research*

.  
[doi:10.1093/plankt/fbw036](https://doi.org/10.1093/plankt/fbw036)  
.

26. "Anthropogenic and topographic correlates of natural vegetation cover within agricultural landscape mosaics in Turkey." **Pekin BK** (2016). *Land Use Policy*. [doi:10.1016/j.landusepol.2016.02.029](https://doi.org/10.1016/j.landusepol.2016.02.029)

25. "Response of native versus exotic plant guilds to cattle and elk herbivory in forested rangeland." **Pekin BK**, Wisdom MJ, Parks CG, Endress BA & Naylor BJ (2016). *Applied Vegetation Science*

.  
[doi:10.1111/avsc.12194](https://doi.org/10.1111/avsc.12194)  
.

24. "Integrating morphology, phylogeography, and ecological niche modeling to explore population differentiation in North African Common Chaffinches." **Perktaş U**, Peterson AT & Dyer D (2016). *Journal of Ornithology*

.  
[doi:10.1007/s10336-016-1361-3](https://doi.org/10.1007/s10336-016-1361-3)  
.

23. "DNA Barcoding of Birds at a Migratory Hotspot in Eastern Turkey Highlights Continental Phylogeographic Relationships." **Bilgin R**, Ebeoğlu N, İnak S, Kırpık MA, Horns JJ & **Şekercioğlu ÇH** (2016). *PLoS One*

.  
[doi:10.1371/journal.pone.0154454](https://doi.org/10.1371/journal.pone.0154454)  
.

22. "Circum-Mediterranean phylogeography of a bat coupled with past environmental niche modeling: A new paradigm for the recolonization of Europe?" **Bilgin R**, Gurun K, Rebelo H, Puechmaille SJ, Maraci O *et al.*

(2016).  
*Molecular Phylogenetics and Evolution*

[doi:10.1016/j.ympev.2016.03.024](https://doi.org/10.1016/j.ympev.2016.03.024)

21. "Historical demography of the Eurasian green woodpecker: integrating phylogeography and ecological niche modelling to test glacial refugia hypothesis." **Perktaş U, Gür H & Ada E** (2015). *Folia Zoologica*

20. "An effector of the Irish potato famine pathogen antagonizes a host autophagy cargo receptor." **Dagdas YF, Belhaj K, Maqbool A, Chaparro-Garcia A, Pandey P et al.** (2016). *Elife*.  
[doi:10.7554/eLife.10856](https://doi.org/10.7554/eLife.10856)

19. "Personality and Social Networks: A Generative Model Approach." Ilany A & **Akçay E** (2016).  
*Integrative and Comparative Biology*

[doi:10.1093/icb/icw068](https://doi.org/10.1093/icb/icw068)

18. "Transcriptome sequencing reveals population differentiation in gene expression linked to functional traits and environmental gradients in the South African shrub *Protea repens*." **Akman M**, Carlson JE, Holsinger KE & Latimer AM (2016).  
*New Phytologist*

[doi:10.1111/nph.13761](https://doi.org/10.1111/nph.13761)

17. "Social inheritance can explain the structure of animal social networks." Ilany A & **Akçay E** (2016).  
*Nature Communications*

.  
[doi:10.1038/ncomms12084](https://doi.org/10.1038/ncomms12084)  
.

16. “An ecometric analysis of the fossil mammal record of the Turkana Basin.” Fortelius M, Zliobaite I, **Kaya F**, Bibi F, Bobe R, Leakey L, Leakey M, Patterson D, Rannikko J & Werdelin L (2016). *Philosophical Transactions of the Royal Society B*. [doi:10.1098/rstb.2015.0232](https://doi.org/10.1098/rstb.2015.0232)

15. “Anthropogenic food resources foster the coexistence of distinct life history strategies: year-round sedentary and migratory brown bears.” Cozzi G, Chynoweth M, Kusak J, Çoban E, Çoban A, **Ozgul A** & **Şekercioğlu ÇH** (2016). *Journal of Zoology*. [doi:10.1111/jzo.12365](https://doi.org/10.1111/jzo.12365). (See also:

[1](#)

)

14. “Phylogenetics supports an ancient common origin of two scientific icons: Devils Hole and Devils Hole pupfish.” **Sağlam İK**, Baumsteiger J, Smith MJ, Linares-Casenave J, Nichols AL, O’Rourke SM & Miller MR (2016). *Molecular Ecology*. [doi:10.1111/mec.13732](https://doi.org/10.1111/mec.13732)

. (See also:

[1](#)

,

[2](#)

,

[3](#)

)

13. “Beeswax corticosterone implants produce long-term elevation of plasma corticosterone and influence condition.” Beck ML, Davies S, Moore IT, Schoenle LA, **Kerman K**, Vernasco BJ & Sewall KB (2016). *General and Comparative Endocrinology*

.  
[doi:10.1016/j.ygcen.2016.05.021](https://doi.org/10.1016/j.ygcen.2016.05.021)  
.



12. "Population genetics features for persistent, but transient, *Botryllus schlosseri* (Urochordata) congregations in a central Californian marina."

**Karahan A**

, Douek J, Paz G & Rinkevich B (2016).

*Molecular Phylogenetics Evolution*

[doi:10.1016/j.ympev.2016.05.005](https://doi.org/10.1016/j.ympev.2016.05.005)

.

11. "Modelling vegetation change during Late Cenozoic uplift of the East African plateaus." **Fer I**

, Tietjen B, Jeltsch F & Trauth MH (2016).

*Palaeogeography, Palaeoclimatology, Palaeoecology*

[doi:10.1016/j.palaeo.2016.04.007](https://doi.org/10.1016/j.palaeo.2016.04.007)

.

10. "Effects of nest positioning on fledging success in a breeding colony of *Passer montanus* (Passeridae): a case study in Central Anatolia, Turkey."

**Kerman K**

& Ayas Z (2016).

*Italian Journal of Zoology*

[doi:10.1080/11250003.2016.1157631](https://doi.org/10.1080/11250003.2016.1157631)

.

9. "Human–wildlife conflict as a barrier to large carnivore management and conservation in Turkey." Chynoweth MV, Çoban E, Çağatay A & **Şekercioğlu ÇH** (2016). *Turkish Journal of Zoology*

doi:10.3906/zoo-1509-6.

8. "Evaluation of boldness assays and associated behavioral measures in a social parrot, monk parakeet (*Myiopsitta monachus*)."**Kerman K**, Mary Colette S, Avery Michael L & Sieving

Kathryn E (2016).

*Behaviour.* doi : [10.1163/1568](https://doi.org/10.1163/1568539X-00003356)

[539X-00003356](https://doi.org/10.1163/1568539X-00003356)

.

7. "Including trait-based early warning signals helps predict population collapse" Clements CF &

**Ozgul A**

(2016)

*Nature Communications*

[doi:10.1038/ncomms10984](https://doi.org/10.1038/ncomms10984)

.

6. "Current status, distribution and conservation of brown bear (Ursidae), and wild canids (gray wolf, golden jackal and red fox, Canidae) in Turkey" Ambarlı H, Ertürk A, **Soyumert A** (2016) *Turkish Journal of Zoology*

[doi:10.3906/zoo-1507-51](https://doi.org/10.3906/zoo-1507-51)

.

5. "The interaction between cyanobacteria and zooplankton in a more eutrophic world. Harmful Algae", **Ger KA**, Urrutia-Cordero P, Frost PC, Hansson L-A, Sarnelle O, Wilson AE, Lürling M (2016) *Harmful Algae* [doi:10.1016/j.hal.2015.12.005](https://doi.org/10.1016/j.hal.2015.12.005) .

4. "High-resolution modelling closes the gap between data and model simulations for Mid-Holocene and present-day biomes of East Africa", **Fer I**, Tietjen B, Jeltsch F (2016) *Palaeogeography, Palaeoclimatology, Palaeoecology*

[doi:10.1016/j.palaeo.2015.12.001](https://doi.org/10.1016/j.palaeo.2015.12.001)

.

3. "There is no fitness but fitness, and the lineage is its bearer" **Akçay E** & Van Cleve J (2016) *Philosophical Transactions of the Royal Society B*

[doi:10.1098/rstb.2015.0085](https://doi.org/10.1098/rstb.2015.0085)

.

2. "Effect of the toxin (microcystin) concentration of *Microcystis* on copepod grazing" **Ger KA**, Peninno MG, Faassen EJ, Lürling M. (2016)

*Harmful Algae*

[doi:10.1016/j.hal.2015.12.008](https://doi.org/10.1016/j.hal.2015.12.008)

.

1. "Toxicity overrides morphology on *Cylindrospermopsis raciborskii* grazing resistance to the

calanoid copepod *Eudiaptomus gracilis*". Rangel LM, **Ger KA**, Silva LHS, Soares MCS, Faassen EJ, Lüring M (2016)

*Mic*

*robial Ecology*

[doi:10.1007/s00248-016-0734-8](https://doi.org/10.1007/s00248-016-0734-8)

.

## 2015

---

17. "Factors influencing nitrogen processing in lakes: an experimental approach." Olsen S, Jeppesen E, Moss B, **Özkan K**, **Beklioglu M**, Feuchtmayr H, González Sagrario M, Wei L, Larsen S, Lauridsen TL, Søndergaard M (2015).

*Freshwater Biology*,

[doi:10.1111/fwb.12511](https://doi.org/10.1111/fwb.12511)

.

16. "Importance of Ethiopian shade coffee farms for forest bird conservation." Buechley ER, **Şekercioglu ÇH**, Atickem A, Gebremichael G, Ndungu JK, Mahamued BA, Beyene T, Mekonnen T & Lens L (2015).

*Biological Conservation*

.

[doi:10.1016/j.biocon.2015.01.011](https://doi.org/10.1016/j.biocon.2015.01.011)

.

15. "Avian responses to selective logging shaped by species traits and logging practices." Burivalova Z, Lee TM, Giam X, **Sekercioglu CH**, Wilcove DS & Koh LP (2015). *Proceedings of the Royal Society B*,

[doi:10.1098/rspb.2015.0164](https://doi.org/10.1098/rspb.2015.0164)

.

14. "Keystone species in seed dispersal networks are mainly determined by dietary specialization." Mello MAR, Rodrigues FA, Costa LdF, Kissling WD, **Şekercioglu ÇH**, Marquitti FMD & Kalko EKV (2015).

*Oikos*

.

[doi:10.1111/oik.01613](https://doi.org/10.1111/oik.01613)

.

13. "Why birds matter: from economic ornithology to ecosystem services." Whelan CJ, **Şekercioğlu ÇH** &

Wenny DG (2015).

*Journal of Ornithology*

.  
[doi:10.1007/s10336-015-1229-y](https://doi.org/10.1007/s10336-015-1229-y)  
.

12. "Background Mutational Features of the Radiation-Resistant Bacterium *Deinococcus radiodurans*." Long H, **Kucukyildirim S**, Sung W, Williams E, Lee H, Ackerman M, Doak TG, Tang H, Lynch M. (2015)

*Evolution*

*Molecular Biology and*

[doi:](https://doi.org/10.1093/molbev/msv119)

[10.1093/molbev/msv119](https://doi.org/10.1093/molbev/msv119)  
.

11. "Tropical countryside riparian corridors provide critical habitat and connectivity for seed-dispersing forest birds in a fragmented landscape." **Şekercioğlu ÇH**, Loarie SR, Oviedo-Brenes F, Mendenhall CD, Daily GC & Ehrlich PR (2015).

*Journal of Ornithology*

.  
[doi:10.1007/s10336-015-1299-x](https://doi.org/10.1007/s10336-015-1299-x)  
.

10. "Global evolutionary isolation measures can capture key local conservation species in Nearctic and Neotropical bird communities." Redding DW, Mooers AO, **Şekercioğlu CH** & Collen B (2015).

*Philos Trans R Soc Lond B Biol Sci*

.  
[doi:10.1098/rstb.2014.0013](https://doi.org/10.1098/rstb.2014.0013)  
.

9. "Fire-related germination and early seedling growth in 21 herbaceous species in Central Anatolian steppe." **Tavşanoğlu Ç**, Çatav ŞS & Özüdoğru B (2015). *Journal of Arid Environments*.  
[doi:10.1016/j.jaridenv.2015.06.017](https://doi.org/10.1016/j.jaridenv.2015.06.017) .

8. "The fitness consequences of honesty: Under-signalers have a survival advantage in song sparrows." **Akçay Ç**, Campbell SE & Beecher MD (2015). *Evolution*. [doi:10.1111/evo.12818](https://doi.org/10.1111/evo.12818) .

7. "Small RNA Sequencing Based Identification of miRNAs in *Daphnia magna*." Ünlü ES, Gordon DM &

**Telli**

**i M**

(2015).

*PLoS One*

.  
[doi:10.1371/journal.pone.0137617](https://doi.org/10.1371/journal.pone.0137617)  
.

6. "Evaluating the novel-environment test for measurement of exploration by bird species." Huang P, **Kerman K**, Sieving KE & St. Mary CM (2015). *Journal of Ethology*. [doi:10.1007/s10164-015-0444-6](https://doi.org/10.1007/s10164-015-0444-6)

5. "Dynamics of Transcription Factor Binding Site Evolution" **Tuğrul M**, Paixão T, Barton N , Tkačik G (2015) *PLoS Genetics*

[doi:10.1371/journal.pgen.1005639](https://doi.org/10.1371/journal.pgen.1005639)  
.

4. "Bathymodiolus growth dynamics in relation to environmental fluctuations in vent habitats", Nedoncelle K, Lartaud F, Contreira-Pereira L, **Yücel M**, et al. (2015) *Deep Sea Research Part I* [doi:10.1016/j.dsr.2015.10.003](https://doi.org/10.1016/j.dsr.2015.10.003)  
.

3. "Small RNA sequencing based identification of miRNAs in *Daphnia magna*", Ünlü ES, Gordon DM, **Telli M** (2015) *PLoS ONE* [doi:10.1371/journal.pone.0137617](https://doi.org/10.1371/journal.pone.0137617) .

2. "Sex-dependent dominance at a single locus maintains variation in age at maturity in salmon", Barson N, **Aykanat T**, et al. (2015) *Nature* [doi:10.1038/nature16062](https://doi.org/10.1038/nature16062) . (See also: [1](#) , [2](#) )

1. "Determining the origin of synchronous multifocal bladder cancer by exome sequencing." Acar Ö, **Özkurt E**, Demir G, Saraç H, Alkan C, Esen T, **Somel M** & Lack NA (2015). *BMC Cancer*

[doi:10.1186/s12885-015-1859-8](https://doi.org/10.1186/s12885-015-1859-8)

. [d](#)

<https://ekoevo.org/society-for-ecology-and-evolutionary-biology-turkey/>