

DAVRANIŞ BİY 447



Hayvan Davranışı Nedir?

- En basit düzeyde, **Hayvan davranışı** hayvanların ne yaptığının bilimsel olarak çalışılmasıdır.
- Fakat.....gerçekte, araştırmacılar hayvanların yaptıklarını nasıl yaptıkları (proximate mekanizmalar) ve bu yaptıkları işleri niçin yaptıkları (ultimate mekanizmalar) olmak üzere her ikisini de çalışır.

Niçin **Hayvan Davranışı** önemlidir?

- Birçok hayvan için, davranışları diğer hayvanlar ve çevreleri ile olan ilk etkileşimleridir.
- Örneğin
 - ✓ Beslenme
 - ✓ Habitat seçimi
 - ✓ İletişim
 - ✓ Üreme, sosyalleşme, avcı dışı tepkiler



Niko Tinbergen

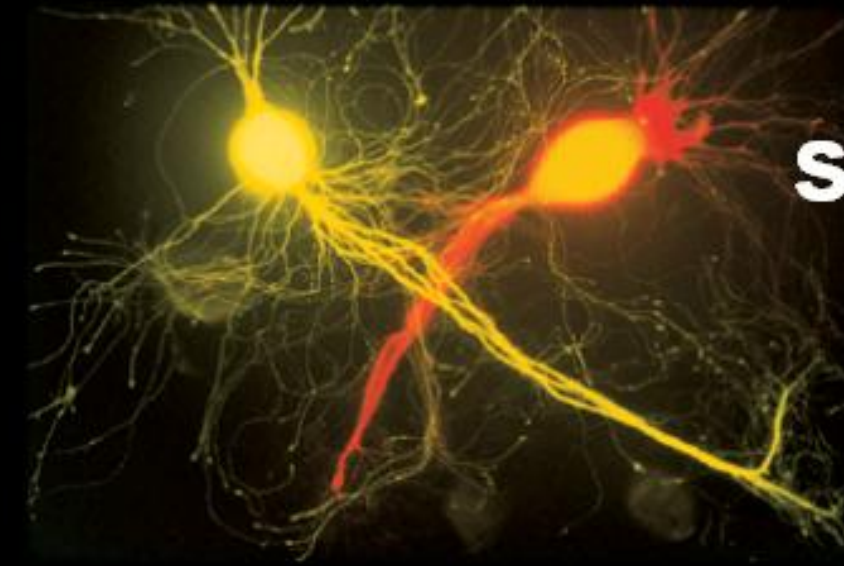


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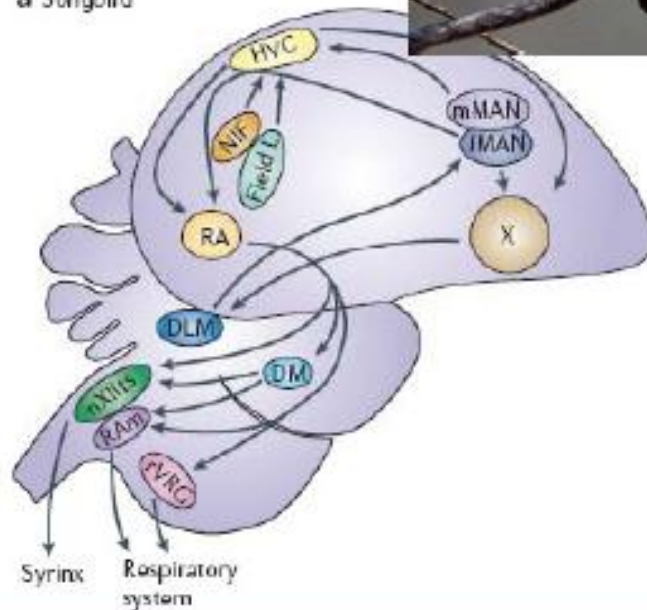


Karl von Frisch

Davranışın sinirsel temelleri



a Songbird



Öğrenme Tipleri



Hormonlar ve Davranış



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Hayvan İletişimi



Göç ve Dağılım



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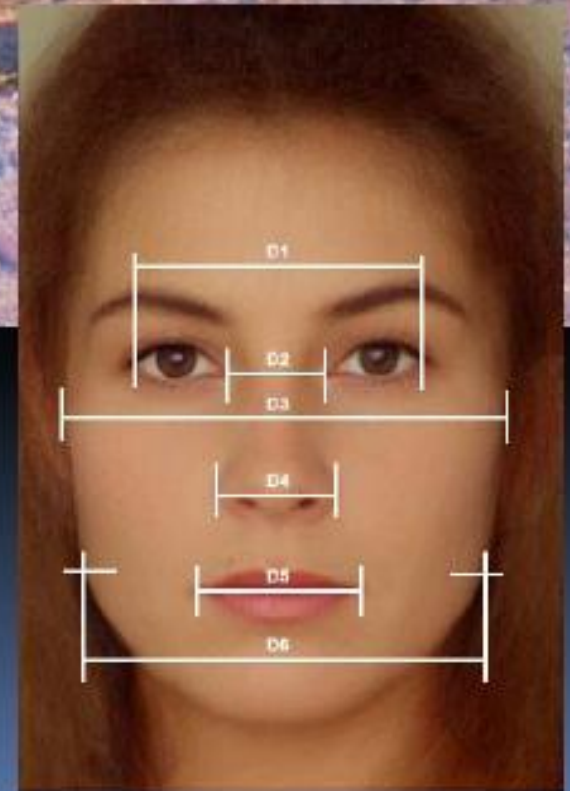
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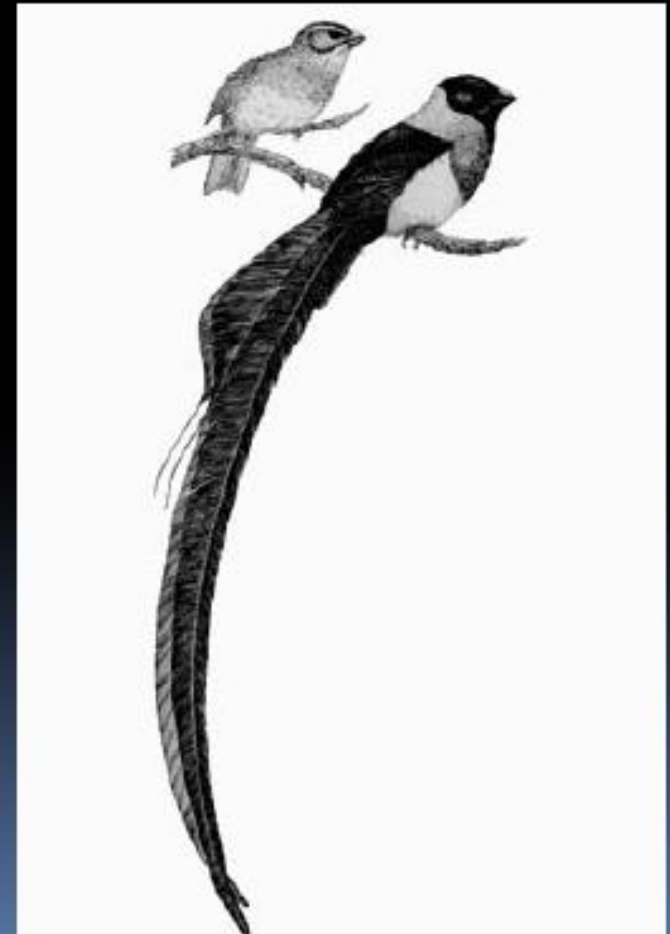
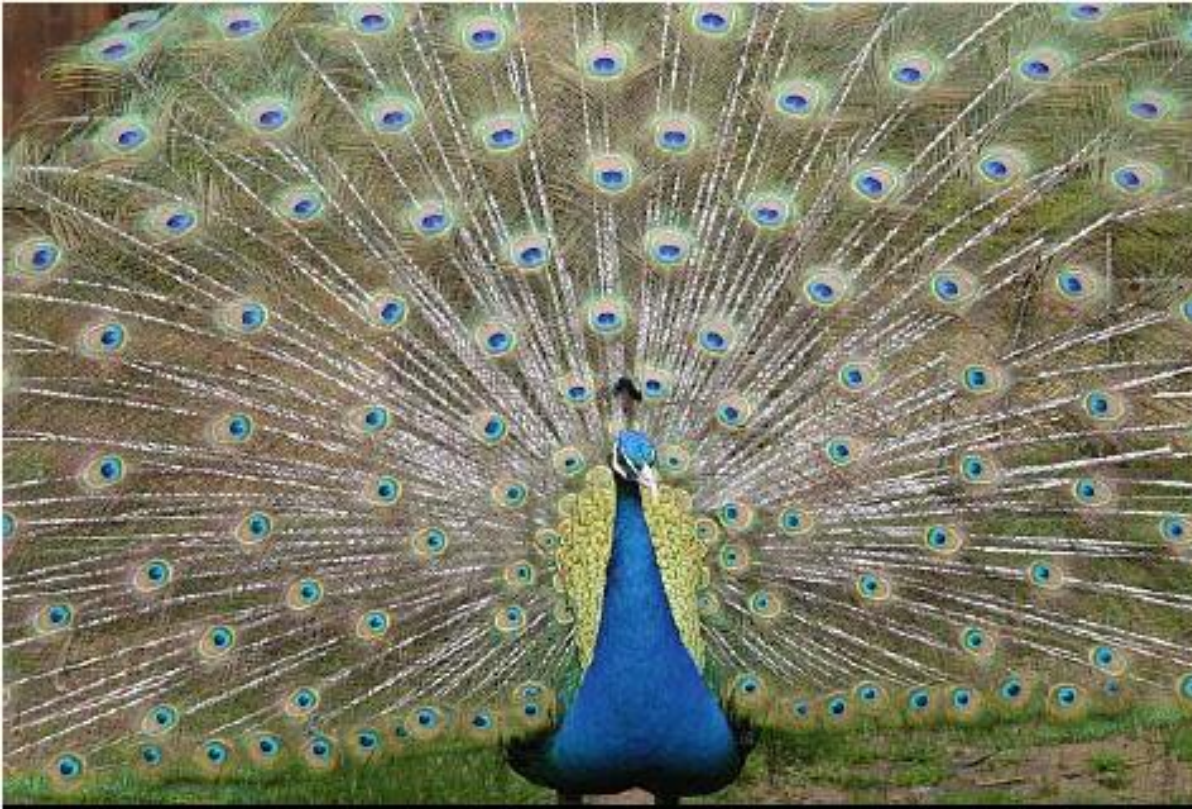
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Eş Seçimi



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Davranış ve Koruma



Tinbergen'in 4 sorusu:

- Davranışı çalışmak için



Niko Tinbergen

- 1) **Sebepe-** Davranışın oluşmasına neden olan mekanizma nedir ?
- 2) **Gelişme-** Davranış nasıl gelişir?
- 3) **Uyumsal anlamlılık-** Davranışın uyum değeri nedir?
- 4) **Evrime-** Davranış nasıl evrimleşir?

EĞİTİM
BİLGİLENDİRME

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PROJELERİ

KURUMSAL - AKADEMİK - ÖĞRENCİ - ULUSLARARASI - İDARİ - ARAŞTIRMA - KÜTÜPHANE - HASTANELER



Duyurular Toplumla Buluşma Etkinlikler Tanıtım Haberler Bilişim Yayınevi Sayılarla Üniversitemiz E-Hizmetler Medyada Biz



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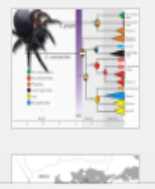
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Molecular Phylogenetics and Evolution

Volume 98, May 2016, Pages 300–313



Peeking through the trapdoor: Historical biogeography of the Aegean endemic spider *Cyrtocarenum Ausserer, 1871* with an estimation of mtDNA substitution rates for Mygalomorphae

P. Komiliou^a, E. Thanou^a, P. Kapli^b, A. Parmakelis^c, M. Chatzaki^{a,1}

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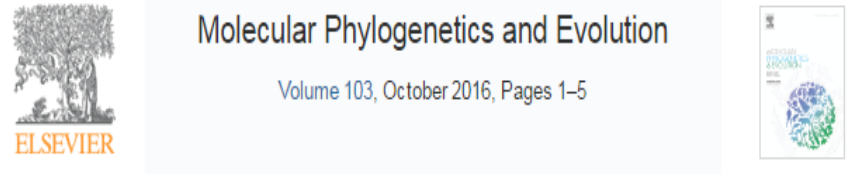
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Molecular Phylogenetics and Evolution

Volume 103, October 2016, Pages 1–5

Present diversity of Galápagos leaf-toed geckos (Phyllodactylidae: *Phyllodactylus*) stems from three independent colonization events

Omar Torres-Carvajal^a, Andrea Rodríguez-Guerra^a, Jaime A. Chaves^b

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Peeking through the trapdoor: Historical biogeography of the Aegean endemic spider *Cyrtocarenum* Ausserer, 1871 with an estimation of mtDNA substitution rates for Mygalomorphae[☆]



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ABSTRACT

The Aegean region, located in the Eastern Mediterranean, is an area of rich biodiversity and endemism. Its position, geographical configuration and complex geological history have shaped the diversification history of many animal taxa. Mygalomorph spiders have drawn the attention of researchers, as excellent model systems for phylogeographical investigations. However, phylogeographic studies of spiders in the Aegean region are scarce. In this study, we focused on the phylogeography of the endemic ctenizid trap-door spider *Cyrtocarenum* Ausserer, 1871. The genus includes two morphologically described species: *C. grajum* (C.L. Koch, 1836) and *C. cunicularium* (Olivier, 1811). We sampled 60 specimens from the distributions of both species and analyzed four mitochondrial and two nuclear markers.



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From the mountains to the coast and back again: Ancient biogeography in a radiation of short-range endemic harvestmen from California[☆]



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Vicariance

ABSTRACT

The harvestmen genus *Calicina* is represented by 25 short-range endemic species occurring in the western Sierra Nevada, Transverse and Coast Ranges of California. Our principal aim was to reconstruct the temporal and spatial biogeographic history of this arachnid lineage. We inferred a time-calibrated species tree for 21 of 25 described *Calicina* species using multiple genes and multilocus coalescent-based methods. This species tree was used as a framework for algorithmic biogeographic and divergence time analyses, and a phylogenetic canonical correlation analysis (CCA) was used to examine the relationship between morphological evolution and environmental variables. Species tree and biogeographic analyses indicate that high-elevation Sierran taxa are early-diverging in *Calicina*, with subsequent biogeographic "criss-crossing" of lineages from the Sierra Nevada to the Coast Ranges, back to the Sierra Nevada, then back to Coast Ranges. In both the Sierra Nevada and Coast Ranges, distantly-related parapatric lineages essentially never occur in sympatry. CCA reveals that in both the Coast Ranges and the Sierra Nevada, distinct phylogenetic relatives exhibit convergent morphologies. Our evidence shows that *Calicina* is closely