

## Prof.Dr. MEHMET SOMEL

### Kişisel Bilgiler

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### Eğitim Bilgileri

Doktora, Universitaet Leipzig, Faculty Of Biosciences Pharmacy And Psychology, Almanya 2004 - 2008

Yüksek Lisans, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Biyoteknoloji (YI) (Tezli), Türkiye 2001 - 2003

Lisans, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Biyolojik Bilimler Bölümü, Türkiye 1996 - 2001

### Yaptığı Tezler

Doktora, Exploring Phenotypic Variation with the Transcriptome: Applications in Human Evolution and Ageing, Universitaet Leipzig, Faculty Of Biosciences Pharmacy And Psychology, 2008

Yüksek Lisans, Characterisation of DNA from archaeological wheat (*Triticum L.*) seeds from anatolia, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Biyoteknoloji (YI) (Tezli), 2003

### Araştırma Alanları

Evrım, Populasyon Genetiği

### Akademik Unvanlar / Görevler

Doç.Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Biyolojik Bilimler Bölümü, 2014 - 2021

Yrd.Doç.Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Biyolojik Bilimler Bölümü, 2013 - 2014

Araştırma Görevlisi, University of California, Berkeley, Letters And Science, Integrative Biology, 2011 - 2013

Araştırma Görevlisi, Chinese Academy Of Sciences, Cas-Mpg Partner Institute For Computational Biology, 2008 - 2011

Araştırma Görevlisi, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Biyolojik Bilimler Bölümü, 2001 - 2004

### Yönetilen Tezler

Acar A. C. , Somel M., De novo SNP calling and demographic inference using trio genome data, Yüksek Lisans, E.BOZLAK(Öğrenci), 2019

Somel M., Exploring the evolutionary history of anatolian neolithic sheep using modern and ancient genomics, Yüksek Lisans, E.YURTMAN(Öğrenci), 2019

Somel M., Testing natural selection on polygenic trait-associated alleles in anatolia using neolithic and present-day human genomes, Yüksek Lisans, E.FER(Öğrenci), 2019

SOMEL M., Differences in learning performance and related behaviors across three honey bee subspecies from Turkey, Yüksek Lisans, B.ERDEM(Öğrenci), 2018

Somel M., Özer A. N. , Kuzey iskandinavyalı insan örneklerinde hesaplamalı antik DNA çalışmaları, Yüksek Lisans, N.DUHA(Öğrenci), 2018

SOMEL M., Testis transcriptome evolution among hominids, Yüksek Lisans, E.SAĞLİCAN(Öğrenci), 2018

SOMEL M., Alzheimer hastalığının gen anlatımı düzeyinde meta analizi, Yüksek Lisans, H.İzgi(Öğrenci), 2017  
SOMEL M., Context dependent mutation biases in the human genome, Yüksek Lisans, A.YETKİN(Öğrenci), 2017  
SOMEL M., TUNÇBAĞ N., Beyin yaşlanması ve alzheimer hastalığının transkriptomik ağ analizi, Yüksek Lisans, P.Parvizi(Öğrenci), 2017  
SOMEL M., Genetic relatedness estimation using ancient genomic data, Yüksek Lisans, A.GHALICHI(Öğrenci), 2017  
SOMEL M., Understanding domestication process of sheep across Central and Western Anatolia by using ancient DNA, Yüksek Lisans, O.ÖZER(Öğrenci), 2017  
SOMEL M., Meta analysis of Alzheimer's disease at the gene expression level, Yüksek Lisans, H.İZGİ(Öğrenci), 2017  
TUNÇBAĞ N., SOMEL M., Transcriptomic network analysis of brain aging and Alzheimer's disease, Yüksek Lisans, P.PARVIZI(Öğrenci), 2017  
SOMEL M., Notable decrease in transcriptome conservation during mammalian aging, Yüksek Lisans, Z.GÖZDE(Öğrenci), 2016  
SOMEL M., Meta-analysis of gene expression reversals in ageing brain, Yüksek Lisans, H.MELİKE(Öğrenci), 2016  
SOMEL M., Evolution of bladder cancer investigated using exome sequencing, Yüksek Lisans, E.ÖZKURT(Öğrenci), 2015

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **New insights on commemoration of the dead through mortuary and architectural use of pigments at Neolithic Çatalhöyük, Turkey**  
Schotsmans E., Busacca G., Lin S., Vasić M., Lingle A., Veropoulidou R., Mazzucato C., Tibbetts B., Haddow S., SOMEL M., et al.  
Scientific Reports, cilt.12, sa.1, 2022 (SCI Expanded İndekslerine Giren Dergi)
- II. **Inter-tissue convergence of gene expression during ageing suggests age-related loss of tissue and cellular identity**  
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- III. **Archaeogenetic analysis of Neolithic sheep from Anatolia suggests a complex demographic history since domestication**  
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- IV. **Collaborate equitably in ancient DNA research and beyond**  
SOMEL M.  
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- V. **Human inbreeding has decreased in time through the Holocene**  
Ceballos F. C. , Gurun K., ALTINIŞIK N. E. , Gemici H. C. , Karamurat C., Koptekin D., Vural K. B. , Mapelli I., Saglican E., SÜRER E., et al.  
CURRENT BIOLOGY, cilt.31, sa.17, ss.3925-3943, 2021 (SCI İndekslerine Giren Dergi)
- VI. **Million-year-old DNA sheds light on the genomic history of mammoths**  
van der Valk T., Pecnerova P., Diez-del-Molino D., Bergstrom A., Oppenheimer J., Hartmann S., Xenikoudakis G., Thomas J. A. , Dehasque M., Saglican E., et al.  
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- VII. **Human population dynamics and Yersinia pestis in ancient northeast Asia**  
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- VIII. **Variable kinship patterns in Neolithic Anatolia revealed by ancient genomes**  
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- IX. **EVOLUTIONARY GENETICS Of dogs and men**

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- X. **Temporal changes in the gene expression heterogeneity during brain development and aging**  
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- XI. **Social Memory and Mortuary Practices in Neolithic Anatolia**  
Pilloud M. A. , Haddow S. D. , Knusel C. J. , Larsen C. S. , SOMEL M.  
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- XII. **Molecular footprint of Medawar's mutation accumulation process in mammalian aging**  
Turan Z. G. , Parvizi P., Donertas H. M. , Tung J., Khaitovich P., SOMEL M.  
AGING CELL, cilt.18, sa.4, 2019 (SCI İndekslerine Giren Dergi)
- XIII. **Ancient Mitochondrial Genomes Reveal the Absence of Maternal Kinship in the Burials of catalhoyuk People and Their Genetic Affinities**  
Chylenski M., Ehler E., SOMEL M., Yaka R., Krzewinska M., Dabert M., Juras A., Marciniak A.  
GENES, cilt.10, sa.3, 2019 (SCI İndekslerine Giren Dergi)
- XIV. **Genomic and Strontium Isotope Variation Reveal Immigration Patterns in a Viking Age Town**  
Krzewinska M., Kjellstrom A., Guenther T., Hedenstierna-Jonson C., Zachrisson T., Omrak A., Yaka R., Kilinc G. M. , SOMEL M., Sobrado V., et al.  
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- XV. **Investigating Holocene human population history in North Asia using ancient mitogenomes**  
Kilinc G. M. , Kashuba N., Yaka R., Sumer A. P. , Yuncu E., Shergin D., Ivanov G. L. , Kichigin D., Pestereva K., Volkov D., et al.  
SCIENTIFIC REPORTS, cilt.8, 2018 (SCI İndekslerine Giren Dergi)
- XVI. **Archaeogenetics of Late Iron Age Cemialo Srt, Batman: Investigating maternal genetic continuity in north Mesopotamia since the Neolithic**  
Yaka R., Birand A., Yilmaz Y., Caner C., Acan S. C. , Gunduzalp S., Parvizi P., Ozdogan A. E. , Togan I., SOMEL M.  
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- XVII. **Variation and Functional Impact of Neanderthal Ancestry in Western Asia**  
Taskent R. O. , Alioglu N. D. , Fer E., Donertas H. M. , SOMEL M., Gokcumen O.  
GENOME BIOLOGY AND EVOLUTION, cilt.9, sa.12, ss.3516-3524, 2017 (SCI İndekslerine Giren Dergi)
- XVIII. **Archaeogenomic analysis of the first steps of Neolithization in Anatolia and the Aegean**  
Kilinc G. M. , KOPTKIN D., ATAKUMAN Ç., SUMER A. P. , DONERTAS H. M. , YAKA R., BİLGİN C. C. , BÜYÜKKARAKAYA A. M. , Baird D., ALTINISIK E., et al.  
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- XIX. **Gene expression reversal toward pre-adult levels in the aging human brain and age-related loss of cellular identity**  
Donertas H. M. , İZGİ H., Kamacioglu A., He Z., Khaitovich P., SOMEL M.  
SCIENTIFIC REPORTS, cilt.7, 2017 (SCI İndekslerine Giren Dergi)
- XX. **The Demographic Development of the First Farmers in Anatolia**  
Kilinc G. M. , Omrak A., Ozer F., Gunther T., BÜYÜKKARAKAYA A. M. , Bicakci E., Baird D., Donertas H. M. , Ghalichi A., Yaka R., et al.  
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- XXI. **Disruption of an Evolutionarily Novel Synaptic Expression Pattern in Autism**  
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- XXII. **Determining the origin of synchronous multifocal bladder cancer by exome sequencing**  
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BMC CANCER, cilt.15, 2015 (SCI İndekslerine Giren Dergi)
- XXIII. **Transcriptomic insights into human brain evolution: acceleration, neutrality, heterochrony**

- SOMEL M., Rohlf S., Liu X.  
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- XXIV. **Whole genome sequencing of Turkish genomes reveals functional private alleles and impact of genetic interactions with Europe, Asia and Africa**  
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- XXV. **Shared signatures of social stress and aging in peripheral blood mononuclear cell gene expression profiles**  
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- XXVI. **Altitude adaptation in Tibetans caused by introgression of Denisovan-like DNA**  
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- XXVII. **Population Genomics Reveal Recent Speciation and Rapid Evolutionary Adaptation in Polar Bears**  
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- XXVIII. **Classic Selective Sweeps Revealed by Massive Sequencing in Cattle**  
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- XXIX. **Evolution of Human Longevity Uncoupled from Caloric Restriction Mechanisms**  
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- XXX. **A Scan for Human-Specific Relaxation of Negative Selection Reveals Unexpected Polymorphism in Proteasome Genes**  
Somel M., Sayres M. A. W. , Jordan G., Huerta-Sanchez E., Fumagalli M., Ferrer-Admetlla A., Nielsen R.  
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- XXXI. **Early gene expression divergence between allopatric populations of the house mouse (*Mus musculus domesticus*)**  
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- XXXII. **Human brain evolution: transcripts, metabolites and their regulators**  
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- XXXIII. **Widespread splicing changes in human brain development and aging**  
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- XXXIV. **Accelerated aging-related transcriptome changes in the female prefrontal cortex**  
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- XXXV. **A Comparison of Brain Gene Expression Levels in Domesticated and Wild Animals**  
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- XXXVI. **Mechanisms of Dietary Response in Mice and Primates: A Role for EGR1 in Regulating the Reaction to Human-Specific Nutritional Content**  
Weng K., Hu H., Xu A. G. , Khaitovich P., Somel M.  
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- XXXVII. **Extension of cortical synaptic development distinguishes humans from chimpanzees and macaques**  
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- XXXVIII. **MicroRNA-Driven Developmental Remodeling in the Brain Distinguishes Humans from Other**

## Primates

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- XXXIX. **Development and application of a modified dynamic time warping algorithm (DTW-S) to analyses of primate brain expression time series**  
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- XL. **Rapid metabolic evolution in human prefrontal cortex**  
Fu X., Giavalisco P., Liu X., Catchpole G., Fu N., Ning Z., Guo S., Yan Z., Somel M., Paeaebo S., et al.  
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- XLI. **MicroRNA, mRNA, and protein expression link development and aging in human and macaque brain**  
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- XLII. **Intergenic and Repeat Transcription in Human, Chimpanzee and Macaque Brains Measured by RNA-Seq**  
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- XLIII. **Evolution of Neuronal and Endothelial Transcriptomes in Primates**  
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- XLIV. **A Humanized Version of Foxp2 Affects Cortico-Basal Ganglia Circuits in Mice**  
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- XLV. **Transcriptional neoteny in the human brain**  
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- XLVI. **Evolution of Primate Gene Expression: Drift and Corrective Sweeps?**  
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- XLVII. **Human and Chimpanzee Gene Expression Differences Replicated in Mice Fed Different Diets**  
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- XLVIII. **Metabolic changes in schizophrenia and human brain evolution**  
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- XLIX. **Identification and analysis of genomic regions with large between-population differentiation in humans**  
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- L. **Turks fighting back against anti-evolution forces**  
Somel M., Somel R. N. O., Kence A.  
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- LI. **Identifying genes underlying skin pigmentation differences among human populations**  
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- LII. **Gene expression becomes heterogeneous with age**

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## Kitap & Kitap Bölümleri

- I. **From Bones to Genomes: Current Research on the Population History of Prehistoric Anatolia**  
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- II. **Ancient genomics in Neolithic Central Anatolia and Çatalhöyük**  
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## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Ancient genomics in Anatolia: challenges and opportunities**  
SOMEL M.  
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- II. **Discovery of Structural Variations in Ancient Genomes**  
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- III. **An Archaeogenomic Investigation of Consanguinity During the Neolithic Transition**  
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- IV. **Archaeogenomic Insights into Anatolian Demographic History During the Holocene**  
Atakuman Ç., Birand Özsoy A. C. , Bilgin C. C. , Erdal Y. S. , Büyükkarakaya A. M. , Götherström A., Gökçümen Ö., Gündüzalp S., Kılınç G. M. , Koktekin D., et al.  
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- V. **Understanding migration of shhep from its domestication center in Southeast Anatolia to West Anatolia by using of ancient mtDNA: Preliminary results**  
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4. Ecology and Evolutionary Biology Symposium, İstanbul, Türkiye, 11 - 13 Temmuz 2017
- VI. **Meta-Analysis of Alzheimer'xxs Disease at the Gene Expression Level**  
İZGİ H., SOMEL M.  
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- VII. **Diverse Patterns of Neanderthal Introgression in Western Asia**  
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- VIII. **Mechanisms of convergent testis transcriptome evolution in primates**  
Saglican E., Donertas M., Rohlf R., Ozkurt E., Hu H., Neme R., Erdem B., Khaitovich P., SOMEL M.

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**IX. Mobility in Neolithic Central Anatolia: A Comparison of Dental Morphometrics and aDNA**

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**X. Genome-wide cytosine methylation differences between ancient hunter-gatherers and farmers**

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**XI. Autism spectrum disorder in context of human brain evolution**

LIU X., SOMEL M.

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**XII. Neanderthal Introgression to Western Asian Human Populations**

Taskent R. O. , Xu D., Alioglu D., Donertas H. M. , Fer E., SOMEL M., Gokcumen O.

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**XIII. Archaeogenomic analysis of ancient Anatolians: first genetic indication for Neolithic cultural diffusion in the Near East**

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**XIV. Molecular evolution of mammalian testes under polyandry and monandry**

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**XV. Neanderthal introgression into Western Asian human populations**

Taşkent R. Ö. , Alioğlu D., Gökçümen Ö., SOMEL M.

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**XVI. Notable Decrease in Transcriptome Conservation During Mammalian Brain Aging**

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**XVII. Whole genome sequencing of Turkish genomes reveals functional private alleles and impact of genetic interactions with Europe, Asia and Africa**

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**XVIII. Bringing the understanding of evolution to Turkish public: A volunteer organization model for developing countries**

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## Desteklenen Projeler

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İZGİ H., SOMEL M., TÜBİTAK Projesi, Sistem biyolojisi yaklaşımı ile yaşlanan beyin dokusunda hücresel ağ entropisinin tanımlanması, 2016 - 2017

## **Bilimsel Kuruluşlardaki Üyelikler / Görevler**

Scientific Exchange Grants Advisory Board, Danışma Kurulu Üyesi, 2020 - Devam Ediyor , Almanya  
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## **Atıflar**

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## **Ödüller**

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