

Assoc. Prof. Haydar Karakaya

Personal Information

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International Researcher IDs

ScholarID: iGHd6qcAAAAJ

ORCID: 0000-0003-3347-0001

Publons / Web Of Science ResearcherID: AAB-8832-2020

ScopusID: 6602509367

Yoksis Researcher ID: 21633

Education Information

Doctorate, The University of Warwick, Faculty of Sciences, Department of Biological Sciences, England 1991 - 1996

Postgraduate, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Biyoloji (YI) (Tezli), Turkey 1987 - 1990

Undergraduate, Ondokuz Mayıs University, Fen-Edebiyat Fakültesi, Biyoloji Bölümü, Turkey 1982 - 1985

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Occupational Health and Safety, İş Sağlığı ve Güvenliği, Ondokuz Mayıs Üniversitesi, 2020

Dissertations

Doctorate, Molecular Genetic Analysis of the zwf Region of Cyanobacterial Genomes, The University of Warwick, Faculty of Sciences, Department of Biological Sciences, 1996

Postgraduate, Ordu-Çambaşı yaylasının subalpin ve alpin vejetasyonu üzerinde floristik ve fitososyolojik bir araştırma, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Biyoloji (YI) (Tezli), 1990

Research Areas

Microbiology, Genetic Engineering, Microbial Genetics, Natural Sciences

Courses

VİROLOJİ, Undergraduate, 2021 - 2022, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

GENETİK, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
 REKOMBİNANT DNA TEKNOLOJİSİ, Undergraduate, 2021 - 2022
 PROKARYOTİK GENETİK, Postgraduate, 2021 - 2022, 2018 - 2019, 2016 - 2017, 2014 - 2015, 2013 - 2014
 MOLEKÜLER BİYOTEKNOLOJİ, Doctorate, 2021 - 2022
 MOLEKÜLER BİYOLOJİ, Undergraduate, 2020 - 2021, 2018 - 2019
 BAKTERİ FİZYOLOJİSİ, Postgraduate, 2020 - 2021, 2018 - 2019, 2017 - 2018, 2015 - 2016, 2014 - 2015, 2013 - 2014
 İLERİ MOLEKÜLER GENETİK, Doctorate, 2020 - 2021, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2014 - 2015, 2013 - 2014
 MOLEKÜLER GENETİK LAB, Undergraduate, 2019 - 2020, 2018 - 2019, 2014 - 2015, 2013 - 2014
 GENEL GENETİK LAB, Undergraduate, 2019 - 2020, 2018 - 2019, 2014 - 2015, 2013 - 2014
 GENEL GENETİK, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2015 - 2016, 2014 - 2015, 2013 - 2014
 MOLEKÜLER GENETİK, Undergraduate, 2019 - 2020, 2018 - 2019, 2016 - 2017, 2014 - 2015, 2013 - 2014
 GEN KLONLAMA, Postgraduate, 2018 - 2019, 2016 - 2017, 2014 - 2015, 2013 - 2014
 REKOMBİNANT DNA VE GENETİK MÜHENDİSLİĞİ, Undergraduate, 2017 - 2018
 MOLEKÜLER GENETİK LAB., Undergraduate, 2017 - 2018
 Mikrobiyal Moleküler Genetik, Undergraduate, 2016 - 2017
 Moleküler Genetik Laboratuvar, Undergraduate, 2016 - 2017
 MODERN BİYOLOJİ VE GENETİK, Undergraduate, 2014 - 2015
 BİYOTEKNOLOJİ, Undergraduate, 2014 - 2015, 2013 - 2014
 BİYOTEKNOLOJİYE GİRİŞ, Undergraduate, 2014 - 2015, 2013 - 2014
 GEN MÜHENDİSLİĞİ, Doctorate, 2013 - 2014

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **METAGENOMIC ANALYSIS OF THE TOXIN PRODUCING CYANOBACTERIAL COMMUNITY OF AKGOL LAKE IN TERME SAMSUN, TURKEY**
 Karakaya H., Tokatli Y.
 FRESenius ENVIRONMENTAL BULLETIN, vol.31, no.3A, pp.3289-3299, 2022 (SCI-Expanded)
- II. **Effect of cysteine/serine changes to glucose-6-phosphate dehydrogenase of *Synechocystis* sp. PCC6803 in cell-free extracts**
 Ozkul K., Karakaya H.
 EUROPEAN JOURNAL OF PHYCOLOGY, vol.54, no.4, pp.562-570, 2019 (SCI-Expanded)
- III. **Characterisation of an *opcA* Mutant of the Unicellular Cyanobacterium *Synechocystis* sp PCC 6803**
 Ozkul K., Karakaya H.
 CURRENT MICROBIOLOGY, vol.71, no.5, pp.572-578, 2015 (SCI-Expanded)
- IV. **Analysis of glucose-6-phosphate dehydrogenase of the cyanobacterium *Synechococcus* sp PCC 7942 in the *zwf* mutant *Escherichia coli* DF214 cells**
 Karakaya H., Erdem F., Ozkul K., Yilmaz A.
 ANNALS OF MICROBIOLOGY, vol.63, no.4, pp.1319-1325, 2013 (SCI-Expanded)
- V. **5,5-diethylbarbiturate complexes of silver with 2,2'-bipyridine and 3-(2-pyridyl)propanol: Syntheses, crystal structures, spectroscopic, thermal and antimicrobial activity studies**
 YILMAZ F., YILMAZ V. T., Karakaya H., Bueyuekguengoer O.
 ZEITSCHRIFT FÜR NATURFORSCHUNG SECTION B-A JOURNAL OF CHEMICAL SCIENCES, vol.63, no.2, pp.134-138, 2008 (SCI-Expanded)
- VI. **Mutagenesis of the *tal* gene-encoding transaldolase in the Cyanobacterium, *Anabaena* sp PCC7120**
 Karakaya H., Mann N. H.
 TURKISH JOURNAL OF BIOLOGY, vol.32, no.2, pp.135-141, 2008 (SCI-Expanded)
- VII. **A Delta *zwf* (glucose-6-phosphate dehydrogenase) mutant of the cyanobacterium *Synechocystis* sp PCC 6803 exhibits unimpaired dark viability**
 Karakaya H., Ay M. T., Ozkul K., Mann N. H.
 ANNALS OF MICROBIOLOGY, vol.58, no.2, pp.281-286, 2008 (SCI-Expanded)

- VIII. **Silver(I)-barbital based frameworks: Syntheses, crystal structures, spectroscopic, thermal and antimicrobial activity studies**
YILMAZ V. T., YILMAZ F., Karakaya H., Bueyuekguengoer O., Harrison W. T. A.
POLYHEDRON, vol.25, no.15, pp.2829-2840, 2006 (SCI-Expanded)
- IX. **Multiple oligomeric forms of glucose-6-phosphate dehydrogenase in cyanobacteria and the role of OpcA in the assembly process**
Sundaram S., Karakaya H., Scanlan D. J., Mann N. H.
Microbiology, vol.144, no.6, pp.1549-1556, 1998 (SCI-Expanded)

Articles Published in Other Journals

- I. **Investigations on isolation and characterisation of unicellular cyanobacteria in Uzun Lake and Cernek Lake, Samsun, Türkiye**
KARAKAYA H., ÖZKUL K.
Ordu University Journal of Science and Technology, vol.12, no.2, pp.167-178, 2022 (Peer-Reviewed Journal)
- II. **Measurement of Glucose 6 phosphate Dehydrogenase Activity in Bacterial Cell free Extracts**
KARAKAYA H., ÖZKUL K.
BIO-PROTOCOL, vol.6, no.19, 2016 (Peer-Reviewed Journal)
- III. **An Investigation on the Bacterial Contents of Natural Springs in a Rural Area of the Middle Blacksea Region in Turkey**
AQSO A., ÖZKUL K., KARAKAYA H.
Applied Ecology and Environmental Sciences, vol.2, no.5, pp.123-129, 2014 (Peer-Reviewed Journal)
- IV. **The flora of the subalpine and alpine region of the çambaşı high plateau (Ordu) and its vicinity Çambaşı yaylasi (Ordu) ve çevresinin subalpin ve alpin bölgesinin florasi**
Karakaya H., Kiliç M.
Turkish Journal of Botany, vol.20, no.1, pp.65-74, 1996 (Scopus)
- V. **A comparison of gene organization in the zwf region of the genomes of the cyanobacteria Synechococcus sp. PCC 7942 and Anabaena sp. PCC 7120**
Newman J., Karakaya H., Scanlan D. J., Mann N. H.
FEMS Microbiology Letters, vol.133, no.1-2, pp.187-193, 1995 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **METAGENOMIC ANALYSIS OF SEASONAL BIODIVERSITY OF THE CYANOBACTERIAL COMMUNITY IN BALIK LAKE (19 MAYIS, SAMSUN)**
SAĞLAM M., KARAKAYA H.
IV. International Agricultural, Biological & Life Science Conference, Edirne, Turkey, 29-31 August 2022, Edirne, Turkey, 29 August 2022, pp.182
- II. **Effects of the opcA- mutation on glucose-6-phosphate dehydrogenase (G6PDH) Activity in Synechocystis sp.PCC6803**
AKSOY N., KARAKAYA H.
2nd International Eurasian Conference on Biological and Chemical Sciences, 28 - 29 June 2019
- III. **Metagenomic Analysis of the Toxin Producing Cyanobacterial Community in Akgöl Lake in Terme, Samsun**
VARLI Y., KARAKAYA H.
2nd International UNIDOKAP Black Sea Symposium on Biodiversity, Samsun, Turkey, 28 - 30 November 2018, pp.168
- IV. **Mutagenesis of the Cysteine Codons in the zwf Gene of Synechocystis sp PCC 6803 and Effect of the Mutations onto Glucose 6 phosphate Dehydrogenase G6PDH Activity**

KARAKAYA H., ÖZKUL K.

14TH INTERNATIONAL SYMPOSIUM ON PHOTOTROPHIC PROKARYOTES, TÜBİNGEN, Germany, 2 - 06 August 2015, pp.213

- V. **Investigations on the effects of *opcA* mutation in *Synechocystis* sp PCC 6803**
ÖZKUL K., KARAKAYA H.
III. CONGRESS OF THE MOLECULAR BIOLOGY ASSOCIATION, İzmir, Turkey, 10 - 12 September 2014
- VI. **Güvenyurt Köyü Ulubey Ordu Civarındaki Bazı Doğal Su Kaynaklarının Bakteriyel İçeriklerinin Geleneksel Kültür ve PCR Teknikleriyle Mevsimsel Analizi**
AQSO A., ÖZKUL K., KARAKAYA H.
22. ULUSAL BİYOLÖJİ KONGRESİ, Eskişehir, Turkey, 23 - 27 June 2014, pp.882
- VII. **Glukoz 6 fosfat dehidrogenaz enzimini kodlayan *Synechococcus* sp PCC7942 *zwf* geninin *zwf* mutant *Escherichia coli* hücrelerinde ekspresyonu ve enzim aktivitesinin analizi**
YILMAZ A., ERDEM F., ÖZKUL K., KARAKAYA H.
20. ULUSAL BİYOLÖJİ KONGRESİ, Denizli, Turkey, 21 - 25 June 2010, pp.1001
- VIII. **Cernek ve Uzun Göl Samsun tek hücreli siyanobakterilerinin izolasyonu morfolojik ve moleküler karakterizasyonu üzerine araştırmalar**
KÜBRA Ö., KARAKAYA H.
19. ULUAL BİYOLÖJİ KONGRESİ, Trabzon, Turkey, 23 - 25 June 2008, pp.251
- IX. **Yabani Tip *Synechococcus* sp. PCC7942 Hücrelerinde DTT'nin G6PDH Aktivitesine Etkisi.**
ÇEBİ KILIÇOĞLU M., KARAKAYA H.
18. Ulusal Biyoloji kongresi. 26-30 Haziran 2006 Adnan Menderes Üniversitesi. Kuşadası/Aydın, Turkey, 26 - 30 June 2006
- X. ***Synechocystis* sp PCC6803 *zwf* geninin klonlanması ve mutasyonu**
KARAKAYA H., AY M. T., ÖZKUL K., MANN N. H.
18. ULUSAL BİYOLÖJİ KONGRESİ, Aydın, Turkey, 26 - 30 June 2006, pp.46
- XI. **Yabani tip *Synechococcus* sp PCC7942 hücrelerinde DTT nin G6PDH aktivitesine etkisi**
ÇEBİ M., KARAKAYA H.
18. ULUSAL BİYOLÖJİ KONGRESİ, Aydın, Turkey, 26 - 30 June 2006, pp.250-20
- XII. **Deniz suyunda *E coli* ve *S typhimurium* un uyku durumuna dormant girmesinde oksidatif stres ve değişik dalga boyundaki ışınların etkisi**
İDİL Ö., DARCAN C., KARAKAYA H., ÖZKANCA R.
XIV. ULUSAL BİYOTEKNOLOJİ KONGRESİ, Eskişehir, Turkey, 31 August - 02 September 2005, pp.509
- XIII. **Deniz suyunda fotosensitizer olan metilen mavisi ve değişik dalga boyundaki ışınların *E coli* ve *S typhimurium* un oksidatif stres enzim aktivitesi ile ilişkisi**
DARCAN C., İDİL Ö., KARAKAYA H., ÖZKANCA R.
XIV. ULUSAL BİYOTEKNOLOJİ KONGRESİ, Eskişehir, Turkey, 31 August - 02 September 2005, pp.511
- XIV. ***zwf* mutant *Escherichia coli* DF214 suşunun bir *Anabaena* sp PCC7120 *zwf* fragmenti taşıyan plazmid ile genetik komplementasyonu üzerine araştırmalar**
KARAKAYA H., MANN N. H.
XIV. ULUSAL BİYOLÖJİ KONGRESİ, Samsun, Turkey, 7 - 11 September 1998, vol.3, pp.100-113
- XV. ***Anabaena* sp PCC7120 suşunun transaldolaz geninin tal mutasyonu üzerine bir araştırma**
KARAKAYA H., MANN N. H.
XIV. ULUSAL BİYOLÖJİ KONGRESİ, Samsun, Turkey, 7 - 10 September 1998, pp.80
- XVI. **Molecular Genetics Analysis on the Glucose 6 phosphate Dehydrogenase Gene *zwf* of *Anabaena* sp PCC 7120**
KARAKAYA H., MANN N. H.
VIII. INTERNATIONAL SYMPOSIUM ON PHOTOTROPHIC PROKARYOTES, URBINO, Italy, 10 - 15 October 1994

Karakaya H., Project Supported by Higher Education Institutions, Balık Gölü (19 Mayıs, Samsun) siyanobakteri komünitesinin mevsimsel biyoçeşitliliğinin metagenomik analizi, 2020 - 2021
Karakaya H., Project Supported by Higher Education Institutions, Samsun Balık Gölü'nün Microcystis biyoçeşitliliğinin araştırılması, 2014 - 2017

Metrics

Publication: 31
Citation (WoS): 66
Citation (Scopus): 63
H-Index (WoS): 4
H-Index (Scopus): 3

Non Academic Experience

Antalya Aksu Öğretmen Lisesi
Public Corporation, Antalya Milli Eğitim Müdürlüğü, Aksu Öğretmen Lisesi