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Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: X-2693-2018

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Education Information

Post Doctorate, Stanford University, Carnegie Institution, Plant Biology, United States Of America 2010 - 2015

Post Doctorate, Rowan University, School Of Osteopathic Medicine, Cell Biology, United States Of America 2009 - 2010

Doctorate, City University of New York, Graduate Center, Moleküler, Hücre Ve Gelişim Biyolojisi, United States Of America 2003 - 2008

Undergraduate, Hacettepe University, Fen Fakültesi, Biyoloji, Turkey 1989 - 1993

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, CLONING A GAMETE FUSION GENE IN CHLAMYDOMONAS REINHARDTII, City University of New York, Graduate Center, Moleküler, Hücre Ve Gelişim Biyolojisi, 2008

Research Areas

Life Sciences, Biotechnology, Microbial Biotechnology, Molecular Biology and Genetics, Genetic Engineering, Natural Sciences

Jury Memberships

Doctoral Examination, Doctoral Examination, Akdeniz Üniversitesi, February, 2024

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Akdeniz Üniversitesi, December, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Akdeniz Üniversitesi, December, 2023

Doctoral Examination, Doctoral Examination, Akdeniz Üniversitesi, July, 2023

Doctoral Examination, Doctoral Examination, Akdeniz Üniversitesi, July, 2023

Post Graduate, Post Graduate, Akdeniz Üniversitesi, July, 2023

Doctoral Examination, Doctoral Examination, Akdeniz Üniversitesi, July, 2023

Doctorate, Doctorate, Akdeniz Üniversitesi, March, 2023

Doctorate, Doctorate, Akdeniz Üniversitesi, July, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Akdeniz Üniversitesi, June, 2021

Doctoral Examination, Doctoral Examination, Akdeniz Üniversitesi, July, 2020

Doctoral Examination, Doctoral Examination, Akdeniz Üniversitesi, January, 2020

Doctoral Examination, Doctoral Examination, Akdeniz Üniversitesi, January, 2020

Post Graduate, Post Graduate, Akdeniz Üniversitesi, June, 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The Fastest and Most Reliable Identification of True Hybrids in the Genus *Pisum* L.**
Sari H., Eker T., SARI YOL D., AKSOY M., BAKIR M., Dogdu V., TOKER C., ÇANCI H.
LIFE-BASEL, no.11, 2023 (SCI-Expanded)
- II. **Metallophosphoesterases of *Chlamydomonas reinhardtii* and Analyses of Their Transcription Levels Under Phosphate Deficiency**
Havutcu G. H., Aksoy M.
JOURNAL OF AGRICULTURAL SCIENCE AND TECHNOLOGY, vol.25, no. 2, pp.443-456, 2023 (SCI-Expanded)
- III. **Transcription level and phylogeny analyses of *Chlamydomonas reinhardtii* arylsulfatases.**
Salarvan F., Meydan H., Aksoy M.
The Journal of eukaryotic microbiology, vol.70, no.1, 2023 (SCI-Expanded)
- IV. **CHLAMYDOMONAS REINHARDTII SEC23 PARALOGS AND THEIR PHYLOGENETIC RELATIONSHIPS**
Aksoy M., Grossman A. R., Musul Ö.
JOURNAL OF ANIMAL AND PLANT SCIENCES, vol.32, no.5, pp.1261-1273, 2022 (SCI-Expanded)
- V. **Critical role of *Chlamydomonas reinhardtii* ferredoxin-5 in maintaining membrane structure and dark metabolism**
Yang W., Wittkopp T. M., Li X., Warakanont J., Dubini A., Catalanotti C., Kim R. G., Nowack E. C. M., Mackinder L. C. M., Aksoy M., et al.
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol.112, no.48, pp.14978-14983, 2015 (SCI-Expanded)
- VI. **Critical Function of a *Chlamydomonas reinhardtii* Putative Polyphosphate Polymerase Subunit during Nutrient Deprivation**
Aksoy M., Pootakham W., Grossman A. R.
PLANT CELL, vol.26, no.10, pp.4214-4229, 2014 (SCI-Expanded)
- VII. **The *Chlamydomonas* genome project: a decade on**
Blaby I. K., Blaby-Haas C. E., Tourasse N., Hom E. F. Y., Lopez D., Aksoy M., Grossman A., Umen J., Dutcher S., Porter M., et al.
TRENDS IN PLANT SCIENCE, vol.19, no.10, pp.672-680, 2014 (SCI-Expanded)
- VIII. **Evolution of the miR-290-295/miR-371-373 Cluster Family Seed Repertoire**
Wu S., Aksoy M., Shi J., Houbaviy H. B.
PLOS ONE, vol.9, no.9, 2014 (SCI-Expanded)
- IX. **Tiered Regulation of Sulfur Deprivation Responses in *Chlamydomonas reinhardtii* and Identification of an Associated Regulatory Factor**
Aksoy M., Pootakham W., Pollock S. V., Moseley J. L., Gonzalez-Ballester D., Grossman A. R.
PLANT PHYSIOLOGY, vol.162, no.1, pp.195-211, 2013 (SCI-Expanded)
- X. **Biomass Productivities in Wild Type and Pigment Mutant of *Cyclotella* sp (Diatom)**
Huesemann M. H., Hausmann T. S., Bartha R., Aksoy M., Weissman J. C., Benemann J. R.
APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, vol.157, no.3, pp.507-526, 2009 (SCI-Expanded)

Articles Published in Other Journals

- I. **Promiscuous Arylsulfatase Activity in Chlamydomonas reinhardtii**
Aksoy M.
Adnan Menderes Üniversitesi Ziraat Fakültesi Dergisi, vol.19, no.2, pp.213-218, 2022 (Peer-Reviewed Journal)
- II. **Isolation of Cold Tolerant Bacteria from Antalya Region and Analysis of Their Growth Rates**
AKSOY M., UZ İ., Yıldız R., KANTAR F.
Uluslararası Tarım ve Yaban Hayatı Bilimleri Dergisi, vol.8, no.3, pp.502-507, 2022 (Peer-Reviewed Journal)
- III. **A FORWARD GENETIC SCREEN FOR ISOLATION OF FUSION DEFECTIVE MATING TYPE MINUS MUTANTS IN CHLAMYDOMONAS REINHARDTII**
AKSOY M., La T. T., Lam N., Forest C.
Hacettepe Journal of Biology and Chemistry, 2021 (Peer-Reviewed Journal)
- IV. **One Step Modification of Chlamydomonas reinhardtii BACs Using the RED/ET System**
AKSOY M., FOREST C.
Mediterranean Agricultural Sciences, vol.32, no.1, 2019 (Peer-Reviewed Journal)

Books

- I. **Chapter 12: Algae in a Phosphorus Limited Landscape**
Grossman A., AKSOY M.
in: Annual Plant Reviews Volume 48, William C. Plaxton, Hans Lambers, Editor, John John Wiley & Sons, West Sussex, Uk, West Sussex, pp.337-374, 2015

Papers Published in Refereed Scientific Meetings

- I. **Homology Modeling of PH Domains of Chlamydomonas reinhardtii**
AKSOY M., Singh S. M.
V. INTERNATIONAL HALICH CONGRESS ON MULTIDISCIPLINARY SCIENTIFIC RESEARCH, İstanbul, Turkey, 16 January 2023
- II. **MUTATION TRIALS OF Chlamydomonas reinhardtii SEC23A GENE BY CRISPR-CAS9**
AKSOY M.
2. INTERNATIONAL BLACK SEA MODERN SCIENTIFIC RESEARCH CONGRESS, Rize, Turkey, 21 December 2022
- III. **Exploring the potential of psychrophilic organisms for crop production under cold conditions**
Aksoy M., Uz İ., Yıldız R., Kantar F.
1st International Congress on Biotech Studies, Ankara, Turkey, 9 - 11 November 2022
- IV. **DOMATESTE COPII BİLEŞENİ SEC24'ÜN CRISPR/CAS9 İLE ERKEK KISIRLIĞI OLUŞTURMA AMACIYLA MUTASYONU**
Akçakale F., Kaba A., Doğan S., Mutlu N., Aksoy M.
XIII. Sebze Tarımı Sempozyumu, İzmir, Turkey, 21 - 23 September 2022, pp.107
- V. **COPII Coated Vesicle Components in Chlamydomonas reinhardtii**
AKSOY M., Musul Ö., Evren S., Kala S., Grossman A. R.
III. International Eurasian Agriculture and Natural Sciences Congress, Antalya, Turkey, 17 - 19 October 2019
- VI. **Chlamydomonas reinhardtii'nin Değişen Besi Koşullarına Tepkisinde Vakuollerin Rolü**
AKSOY M., Grossman A. R.
Ulusal Moleküler Biyoloji ve Biyoteknoloji Kongresi, Afyon, Turkey, 21 August 2015

Supported Projects

Mutlu N., Kitiş Y. E., Aksoy M., Pınar H., Cengiz M. F., TUBITAK Project, Canavar otuna dayanıklı domates ve patlıcan ıslahı, 2023 - 2027

Aksoy M., Pınar H., Mutlu N., TUBITAK Project, Sperm Füzyon Geni Hapless 2 (Hap2)'nin Domates ve Patlıcan'da Genetik Erkek Kısırlığı Oluşturma Amacıyla Crispr/Cas9 ile Mutasyonu, 2023 - 2026

Aksoy M., Pınar H., Mutlu N., Universities of Other Countries Supported Project, Domateste Gen Düzenleme Teknolojisi CRISPR Kullanılarak SEC23 geninde Düzenlenmenin Erkek Kısırlığı Oluşumundaki Etkisinin Araştırılması, 2021 - 2023

AKSOY M., Project Supported by Higher Education Institutions, Chlamydomonas reinhardtii'de SEC23A Geninin CRISPR-Cas9 ile Mutasyona Uğratılması, 2018 - 2022

AKSOY M., Salarvan F., MEYDAN H., Project Supported by Higher Education Institutions, Chlamydomonas reinhardtii Arilsülfataz Genlerinin Ekspresyon Düzeylerinin SemiKantitatif PCR ve qPCR Yöntemleri ile Belirlenmesi, 2020 - 2021

AKSOY M., Havutcu G. H., Project Supported by Higher Education Institutions, Chlamydomonas reinhardtii'de BAZI FOSFATAZ VE FİTAZ PROTEİNLERİNİ KODLAYAN GENLERİN FOSFAT EKSİKLİĞİ ALTINDAKİ EKSPRESYON DÜZEYLERİNİN RT-PCR İLE BELİRLENMESİ, 2020 - 2021

AKSOY M., MUSUL Ö., Project Supported by Higher Education Institutions, Yeşil Alg Chlamydomonas reinhardtii'de SEC23B İnsersiyonel Mutantlarının Genetik Bağlantı ve Fenotipik Analizleri, 2019 - 2020

AKSOY M., EVREN S., Project Supported by Higher Education Institutions, Chlamydomonas reinhardtii'de COPII Vezikül Altbirimi SEC24A İnsersiyonel Mutantlarının Genetik Linkaj ve Fenotipik Analizleri, 2019 - 2020

AKSOY M., KALA S., Project Supported by Higher Education Institutions, Chlamydomonas reinhardtii'de SEC24B İnsersiyonel Mutantlarının Genetik Bağlantı ve Fenotipik Analizleri, 2019 - 2020

Peer Reviews in Scientific Publications

CURRENT GENOMICS, Journal Indexed in SCI-E, October 2023

APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, SCI Journal, May 2023

BIOTECHNOLOGY ADVANCES RESEARCH REVIEWS AND PATENT ABSTRACTS, Journal Indexed in SCI-E, March 2023

International Journal of Innovative Approaches in Science Research, Other journals, February 2022

MARİNE SCİENCE AND TECHNOLOGY BULLETİN, National Scientific Refreed Journal, January 2022

JOURNAL OF ANIMAL AND PLANT SCIENCES, SCI Journal, August 2021

İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, Other Journals, July 2021

Scientific Reports, SCI Journal, January 2016

JOURNAL OF PHYCOLOGY, SCI Journal, August 2015

Metrics

Publication: 21

Citation (WoS): 357

Citation (Scopus): 394

H-Index (WoS): 7

H-Index (Scopus): 6

Congress and Sposium Activities

V. INTERNATIONAL HALICH CONGRESS ON MULTIDISCIPLINARY SCIENTIFIC RESEARCH, Attendee, İstanbul, Turkey, 2023

2. INTERNATIONAL BLACK SEA MODERN SCIENTIFIC RESEARCH CONGRESS, Attendee, Rize, Turkey, 2022

1st International Congress on Biotech Studies, Attendee, Ankara, Turkey, 2022

XIII. Sebze Tarımı Sempozyumu, Attendee, İzmir, Turkey, 2022

III. International Eurasian Agriculture and Natural Sciences Congress, Attendee, Antalya, Turkey, 2019

Ulusal Moleküler Biyoloji ve Biyoteknoloji Konferansı, Attendee, Afyon, Turkey, 2015

16th International Congress on the Cell and Molecular Biology of Chlamydomonas, Attendee, California, United States Of America, 2014

13th International Conference on the Cell and Molecular Biology of Chlamydomonas, Attendee, Hyeres-les-Palmiers, France, 2008

11th International Conference on the Cell and Molecular Biology of Chlamydomonas, Attendee, Kobe, Japan, 2004