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International Researcher IDs

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Education Information

Associate Degree, Istanbul University, Open And Distance Education Faculty, Open Education Programs, Turkey 2024 - Continues

Post Doctorate, Tokat Gaziosmanpaşa University, Fen-Edebiyat Fakültesi, Moleküler Biyoloji ve Genetik, Turkey 2022 - 2024

Doctorate, Sivas Cumhuriyet University, Fen Bilimleri Enstitüsü, Moleküler Biyoloji Ve Genetik, Turkey 2015 - 2021

Postgraduate, Sivas Cumhuriyet University, Fen Bilimleri Enstitüsü, Moleküler Biyoloji Ve Genetik, Turkey 2012 - 2015

Undergraduate, Sivas Cumhuriyet University, Fen Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, Turkey 2008 - 2012

Certificates, Courses and Trainings

IT, Python İle Veri Bilimi Ve Makine Öğrenmesi, İstanbul Üniversitesi, 2024

Vocational Training, Illumina MiSeq sistemi, Gen-Era Diagnostik A.Ş., 2019

Vocational Training, BioOptic QSep100 Fragment Analyzer Sistemi, Sightgen Sağlık Ürünleri, 2019

Research Areas

Bioinformatics, Molecular Biology and Genetics

Academic Titles / Tasks

Assistant Professor, Istanbul University, Faculty Of Aquatic Sciences, Akuatik Biyoteknoloji Ve Genomik Bölümü, 2023 - Continues

Jury Memberships

Post Graduate, Post Graduate, Tokat Gaziosmanpaşa Üniversitesi, January, 2024

Doctoral Examination, Doctoral Examination, Tokat Gaziosmanpaşa Üniversitesi, January, 2024

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Differential sense and antisense expression profiles of *Syrista parreyssi* (Hymenoptera: Cephidae) mitochondrial transcripts**
Aydemir H. B., Aydemir M. N., KORKMAZ E. M.
ARCHIVES OF INSECT BIOCHEMISTRY AND PHYSIOLOGY, vol.113, no.4, 2023 (SCI-Expanded)
- II. **A novel, conserved and possibly functional motif ?WHWGHTW? in mitochondrial transcription across Bilateria**
Aydemir M. N., Aydemir H. B., BUDAK M., Kiziltepe B., Celebi M. S., KORKMAZ E. M., BAŞIBÜYÜK H. H.
MITOCHONDRION, vol.68, pp.72-80, 2023 (SCI-Expanded)
- III. **Wingless ligands and beta-catenin expression in the rat endometrium: The role of Wnt3 and Wnt7a/beta-catenin pathway at the embryo-uterine interface**
KALOĞLU C., BULUT H., HAMUTOĞLU R., KORKMAZ E. M., onder O., Dagdeviren T., Aydemir M. N.
MOLECULAR REPRODUCTION AND DEVELOPMENT, vol.87, no.11, pp.1159-1172, 2020 (SCI-Expanded)
- IV. **The regulation of trophoblast invasion and decidual reaction by matrix metalloproteinase-2, metalloproteinase-7, and metalloproteinase-9 expressions in the rat endometrium**
HAMUTOĞLU R., BULUT H. E., KALOĞLU C., Onder O., Dagdeviren T., Aydemir M. N., KORKMAZ E. M.
REPRODUCTIVE MEDICINE AND BIOLOGY, vol.19, no.4, pp.385-397, 2020 (SCI-Expanded)
- V. **Comparative mitogenomics of Hymenoptera reveals evolutionary differences in structure and composition**
Aydemir M. N., KORKMAZ E. M.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.144, pp.460-472, 2020 (SCI-Expanded)
- VI. **The first mitogenomes of the superfamily Pamphilioidea (Hymenoptera: Symphyta): Mitogenome architecture and phylogenetic inference**
Niu G., KORKMAZ E. M., DOĞAN Ö., Zhang Y., Aydemir M. N., BUDAK M., Du S., BAŞIBÜYÜK H. H., Wei M.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.124, pp.185-199, 2019 (SCI-Expanded)
- VII. **The complete mitogenomes of *Calameuta filiformis* (Eversmann, 1847) and *Calameuta idolon* (Rossi, 1794) (Hymenoptera: Cephidae): The remarkable features of the elongated A plus T rich region in Cephini**
KORKMAZ E. M., BUDAK M., Ordek M. N., BAŞIBÜYÜK H. H.
GENE, vol.576, no.1, pp.404-411, 2016 (SCI-Expanded)

Articles Published in Other Journals

- I. **A DNA Barcode Library of Some Neuroptera from Azerbaijan**
Kerimova I. G., Krivokhatsky V. A., Aydemir M. N., Mamedova L. N.
Punjab University Journal of Zoology, vol.37, no.2, pp.169-174, 2022 (Peer-Reviewed Journal)
- II. **Computationally predicted SARS-COV-2 encoded microRNAs target NFKB, JAK/STAT and TGFB signaling pathways**
Aydemir M. N., Aydemir H. B., KORKMAZ E. M., BUDAK M., ÇEKİN N., PINARBAŞI E.
GENE REPORTS, vol.22, 2021 (ESCI)

Books & Book Chapters

- I. **Exploring the Role of Mitochondrial DNA Mutations in Cancer Development and Diagnosis**
Yıldırımtepe Çaldıran F., Aydemir M. N.
in: Interdisciplinary Cancer Research, Rezaei Nima, Editor, Springer, London/Berlin , Basel, pp.1-28, 2024

Refereed Congress / Symposium Publications in Proceedings

- I. **Comprehensive Mitotranscriptomics of Life Cycle Reversal Stages of Immortal Jellyfish *Turritopsis dohrnii* (Cnidaria: Hydrozoa)**
Aydemir M. N., Çalıcı S. Z., İşinibilir Okyar M.
3rd Aquatic Biotechnology Symposium , İstanbul, Turkey, 25 - 27 September 2024
- II. **Identification Of Differentially Expressed Sense And Antisense Transcripts In Mitochondrial Genes Of *Syrista Parreyssi* (hymenoptera: Cephidae)**
Aydemir H. B., Aydemir M. N., Yangın S., Budak M., Korkmaz E. M., Başıbüyük H. H.
5th Ecology And Evolutionary Biology Symposium, İzmir, Turkey, 18 - 20 July 2018
- III. **A New Putative Transcription Termination Signal Which Interact Transcription Termination Factors In Ecdysozoa**
Aydemir M. N., Aydemir H. B., Budak M., Korkmaz E. M., Başıbüyük H. H.
5th Ecology And Evolutionary Biology Symposium, İzmir, Turkey, 18 - 20 July 2018
- IV. **Investigation On The Complete Mitogenome Of *Neodiprion Sertifer* (hymenoptera: Diprionidae)**
Aydemir M. N., Aydemir H. B., Korkmaz E. M.
Innovative Approaches In Modern Biology, Baku, Azerbaijan, 27 - 28 April 2018, pp.33-34
- V. **Wolbachia Infectiondetection In *Diplolepis Fructuum* (rübssaamen 1895) (hymenoptera: Cynipoidea) Population In Sivas, Turkey.**
Aydemir M. N., Nail M. L.
Innovative Approaches In Modern Biology, Baku, Azerbaijan, 27 - 28 April 2018, pp.27-29
- VI. **Characterization Of The Mitochondrial Genome of *Syrista parreyssi* and *Hartigia linearis***
Aydemir H. B., Durel Avcıoğlu B. S., Aydemir M. N., Budak M., Korkmaz E. M., Başıbüyük H. H.
3rd Ecology And Evolutionary Biology Symposium, Ankara, Turkey, 31 August - 01 October 2016, pp.58
- VII. **Differences Of Mitochondrial Rrna Genes Secondary Structure Prediction In Hymenoptera Order**
Aydemir H. B., Aydemir M. N., Durel Avcıoğlu B. S., Budak M., Başıbüyük H. H., Çelebi M. Ş., Korkmaz E. M.
3rd Ecology And Evolutionary Biology Symposium, Ankara, Turkey, 31 August - 01 October 2016, pp.65
- VIII. **Effect Of Altitude-related Ecological Factors On Mitochondrial Nd6 And Atp8 Genes In Anatolian *Cephus Pygmeus* (cephidae, Hymenoptera) Populations**
Durel Avcıoğlu B. S., Aydemir M. N., Aydemir H. B., Başıbüyük H. H., Korkmaz E. M., Budak M.
3rd Ecology And Evolutionary Biology Symposium, Ankara, Turkey, 31 July - 01 September 2016, pp.51
- IX. **Evidence Of Relaxed Selection In Evolution Of Mitogenome For Holometabolous Insects**
Aydemir M. N., Aydemir H. B., Durel Avcıoğlu B. S., Budak M., Başıbüyük H. H., Korkmaz E. M.
3rd Ecology And Evolutionary Biology Symposium, Ankara, Turkey, 31 July - 01 September 2016, pp.52
- X. **Putative Function Of Mitochondrial Tandem Repeat Sequences In Stem Borers (cephidae: Hymenoptera)**
Korkmaz E. M., Aydemir M. N., Durel Avcıoğlu B. S., Sari M., Başıbüyük H. H.
Ecology And Evolutionary Biology Symposium, Ankara, Turkey, 6 - 07 August 2015, pp.17
- XI. ***Trachelus Iudaicus* (hymenoptera: Cephidae) Türü Mitogenomunun Karakterizasyonu**
Aydemir M. N., Korkmaz E. M., Budak M., Başıbüyük H. H.
22. Ulusal Biyoloji Kongresi, Eskişehir, Turkey, 23 - 27 June 2014, pp.1
- XII. **Mitokondri Genomunda Sakl Yapılar: Hymenoptera (insecta) Örneği**
Başıbüyük H. H., Aydemir M. N., Korkmaz E. M., Budak M.
22. Ulusal Biyoloji Kongresi, Eskişehir, Turkey, 23 - 27 June 2014, pp.1

Supported Projects

AYDEMİR M. N., İŞİNİBİLİR OKYAR M., AYDEMİR H. B., TUBITAK Project, A seascape genetics study of moon jellyfish *Aurelia aurita* (Linnaeus, 1758): The sampling of pollution gradient of İzmit Gulf, 2024 - 2027

Aydemir M. N., Project Supported by Higher Education Institutions, Denizanası *Aurelia aurita*'da farklı DNA ekstraksiyon yöntemlerinin etkinliklerinin sınanması, 2024 - 2026

Aydemir M. N., Çağan E., TUBITAK Project, Determination of the potential effects of mitotranscriptome on the

development of chemoresistance in ovarian cancer, 2022 - 2024

Korkmaz E. M., Aydemir M. N., Project Supported by Higher Education Institutions, Pancrustacea Mitogenomunda

Korunmus "whwghtw" Motifinin Mitokondriyal Transkripsiyondaki Olası Rolünün Araştırılması, 2018 - 2021

Korkmaz E. M., Budak M., Aydemir H. B., Aydemir M. N., Project Supported by Higher Education Institutions, Ecdysozoa Üstsubesi İçin Yeni Bir Moleküler Sinapomorfi: Olası Bir Mitogenomik Transkripsiyon Sinyal Dizisinin Deneysel Olarak Araştırılması" Adlı 117Z020 Numaralı Tübitak Projesi Kapsamında Bilim İnsanı Yetistirme Ve Gelistirme Projesi, 2018 - 2021

Korkmaz E. M., Budak M., Başbüyük H. H., Bağda E., Pınarbaşı E., TUBITAK Project, A novel molecular synapomorphy for superphylum Ecdysozoa: empirical investigations on a predicted mitogenomics transcription signal sequence, 2017 - 2020

Korkmaz E. M., Budak M., Başbüyük H. H., Aydemir H. B., Aydemir M. N., Project Supported by Higher Education Institutions, Hymenoptera Mitoproteomigi: Polinatör Bombus Terrestris (hymenoptera: Apidae) Türünde Olası Bir Transkripsiyon Terminasyon Sinyalinin Araştırılması, 2015 - 2017

Korkmaz E. M., Aydemir M. N., Project Supported by Higher Education Institutions, Diprion Pini (hymenoptera: Diprionidae) Türünün Total Mitokondri Genomu Üzerine Araştırmalar, 2013 - 2015

Korkmaz E. M., Başbüyük H. H., Sari M., Hastaoğlu Örgen S., TUBITAK Project, Bazal Hymenoptera (Insecta) Familyalarında Mitokondri Genomunun Evrimi: Hymenoptera Filogenisinin Yeniden Yapılandırılması, 2012 - 2015

Scientific Refereeing

BMC MEDICAL GENOMICS, SCI Journal, May 2024

BIOCHEMICAL GENETICS, SCI Journal, April 2024

BIOCHEMICAL GENETICS, SCI Journal, April 2024

Aquatic Research, National Scientific Refreed Journal, February 2024

Experimental Biomedical Research , National Scientific Refreed Journal, December 2023

REPRODUCTIVE BIOLOGY, Journal Indexed in SCI-E, June 2020

Metrics

Publication: 22

Citation (WoS): 121

Citation (Scopus): 125

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H-Index (Scopus): 5