

## Assoc. Prof. Mevlüt Arslan

### Personal Information

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### International Researcher IDs

ORCID: 0000-0003-4883-4736

Publons / Web Of Science ResearcherID: HJH-9538-2023

ScopusID: 57202090445

Yoksis Researcher ID: 103808

### Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, MOLEKÜLER BİYOLOJİ-GENETİK VE BİYOTEKNOLOJİ, Turkey 2011 - 2017

Postgraduate, Van Yüzüncü Yil University, Veteriner Fakültesi, Turkey 2004 - 2009

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Molecular and physiological investigation of longevity in yeast, Istanbul Technical University, Fen Bilimleri Enstitüsü, Moleküler Biyoloji-Genetik Ve Biyoteknoloji, 2018

### Research Areas

Veterinary Sciences, Zootechnical and Animal Feed, Genetics, Genetic, Life Sciences, Biotechnology, Microbial Biotechnology, Molecular Biology and Genetics, Genetic Engineering, Genomics, Animal Molecular Genetics, Microbial Genetics, Health Sciences, Natural Sciences

### Academic Titles / Tasks

Assistant Professor, Van Yüzüncü Yil University, Veteriner Fakültesi, Zootekni ve Hayvan Besleme Bölümü, 2018 - Continues

Research Assistant PhD, Van Yüzüncü Yil University, Veteriner Fakültesi, Zootekni ve Hayvan Besleme Bölümü, 2018 - 2018

Research Assistant, Istanbul Technical University, Fen Bilimleri Enstitüsü, Moleküler Biyoloji-Genetik Ve Biyoteknoloji, 2012 - 2018

Research Assistant, Van Yüzüncü Yil University, Veteriner Fakültesi, Zootekni ve Hayvan Besleme Bölümü, 2011 - 2012

## Academic and Administrative Experience

Head of Department, Van Yüzüncü Yil University, Veteriner Fakültesi, Zootekni Ve Hayvan Besleme , 2018 - 2021

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Antitumor activity of *Urtica dioica* seed extract on diethylnitrosamine-induced liver carcinogenesis in rats**  
Keleş Ö. F., Huyut Z., Arslan M., Yıldızhan K., Yener Z.  
Indian Journal of Biochemistry and Biophysics (IJBB), vol.61, no.1, pp.16-31, 2024 (SCI-Expanded)
- II. **Evolutionary engineering and molecular characterization of cobalt-resistant *Rhodobacter sphaeroides***  
Atay G., Holyavkin C., Can H., Arslan M., Topaloğlu A., Trotta M., Çakar Z. P.  
Frontiers in Microbiology, vol.15, 2024 (SCI-Expanded)
- III. **Whole-genome sequencing and genomic analysis of Norduz goat (*Capra hircus*).**  
Arslan M.  
Mammalian genome : official journal of the International Mammalian Genome Society, vol.34, no.3, pp.437-448, 2023 (SCI-Expanded)
- IV. **From *Saccharomyces cerevisiae* to Ethanol: Unlocking the Power of Evolutionary Engineering in Metabolic Engineering Applications**  
Topaloğlu A., Esen Ö., Turanlı-Yıldız B., Arslan M., Çakar Z. P.  
JOURNAL OF FUNGI, vol.9, pp.984, 2023 (SCI-Expanded)
- V. **Genomic, transcriptomic, and metabolic characterization of 2-Phenylethanol-resistant *Saccharomyces cerevisiae* obtained by evolutionary engineering**  
Holyavkin C., Turanlı-Yıldız B., Yılmaz Ü., Alkm C., Arslan M., Topaloğlu A., Kisakesen H. İ., de Billerbeck G., François J. M., Çakar Z. P.  
Frontiers in Microbiology, vol.14, 2023 (SCI-Expanded)
- VI. **Microbial silver resistance mechanisms: recent developments**  
Terzioğlu E., Arslan M., Balaban B. G., Çakar Z. P.  
WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY, vol.38, no.9, 2022 (SCI-Expanded)
- VII. **Physiological and Molecular Characterization of an Oxidative Stress-Resistant *Saccharomyces cerevisiae* Strain Obtained by Evolutionary Engineering**  
Kocaefe Özşen N., Yılmaz B., Alkm C., Arslan M., Topaloğlu A., Kisakesen H. İ., Gülsev E., Çakar Z. P.  
FRONTIERS IN MICROBIOLOGY, vol.13, no.822864, pp.1-20, 2022 (SCI-Expanded)
- VIII. **Effects of centrifugation and washing of freeze-thawed blood on isolated DNA characteristics**  
Arslan M.  
Turkish Journal Of Veterinary & Animal Sciences, vol.46, pp.130-138, 2022 (SCI-Expanded)
- IX. **Genomic, transcriptomic and physiological analyses of silver-resistant *Saccharomyces cerevisiae* obtained by evolutionary engineering**  
Terzioğlu E., Alkm C., Arslan M., Balaban B. G., Holyavkin C., Kisakesen H. İ., Topaloğlu A., Sahin U. Y., Isik S. G., Akman S., et al.  
YEAST, vol.37, pp.413-426, 2020 (SCI-Expanded)
- X. **Evolutionary engineering and molecular characterization of a caffeine-resistant *Saccharomyces cerevisiae* strain**  
Surmeli Y., Holyavkin C., Topaloğlu A., Arslan M., Kisakesen H. İ., Çakar Z. P.  
WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY, vol.35, no.12, 2019 (SCI-Expanded)
- XI. **Physiological and Transcriptomic Analysis of a Chronologically Long-Lived *Saccharomyces cerevisiae* Strain Obtained by Evolutionary Engineering**  
Arslan M., Holyavkin C., Kisakesen H. İ., Topaloğlu A., Surmeli Y., Çakar Z. P.  
MOLECULAR BIOTECHNOLOGY, vol.60, no.7, pp.468-484, 2018 (SCI-Expanded)

- XII. **An improved semi-quantitative spot assay to analyse chronological lifespan in yeast**  
Arslan M., Turanlı-Yıldız B., Yılmaz B., Kocaefe N., Çakar Z. P.  
ROMANIAN BIOTECHNOLOGICAL LETTERS, vol.23, no.3, pp.13551-13560, 2018 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Effects of Centrifugation at Different Levels of Freeze-Thawed Blood on DNA Isolation**  
Arslan M.  
Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.28, no.1, pp.154-163, 2023 (Peer-Reviewed Journal)
- II. **W Locus Alleles of the KIT Gene in Turkish Van Cats and Their Association with Certain Phenotypes**  
Arslan M., Kocaefe Özşen N., İleri M.  
Van Health Sciences Journal, vol.15, pp.206-214, 2022 (Peer-Reviewed Journal)
- III. **Effect of DNA Concentration on Band Intensity and Resolution in Agarose Gel Electrophoresis**  
Arslan M., Tezcan E., Avci M. K.  
Van Health Sciences Journal, vol.14, no.3, pp.326-333, 2021 (Peer-Reviewed Journal)
- IV. **A New Primer Designing for PCR-RFLP Analysis of A and B Genetic Variants of Bovine Kappa-Casein**  
ARSLAN M.  
Harran Üniversitesi Veteriner Fakültesi Dergisi, vol.9, no.1, pp.6-11, 2020 (Peer-Reviewed Journal)

### Books & Book Chapters

- I. **ADVANCES IN THE DIRECT DNA SEQUENCING**  
Arslan M.  
in: Advances in Science and Mathematics, Oktay TALAZ, Editor, Platanus Publishing, Ankara, pp.55-75, 2023

### Refereed Congress / Symposium Publications in Proceedings

- I. **Cloning and sequencing of Bacillus mojavensis TH309 phytase gene**  
Arslan M., Adıgüzel A. O.  
6th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2023), 11 - 13 October 2023, pp.322
- II. **Histopathological and genetical investigation of the protective efficiency of polygonum aviculare extract on experimentally azoxymethane-induced colonic aberrant crypt formation in rats.**  
İncecik V., Arslan M., Huyut Z., Keleş Ö. F., Yener Z.  
5. International Antalya Scientific Research and Innovative Studies Congress, Antalya, Turkey, 26 - 28 July 2023, pp.18-19
- III. **SEQUENCING AND MUTATION ANALYSIS OF EXON 10 REGION OF MITF GENE IN TURKISH VAN CATS**  
İleri M., Arslan M.  
10th INTERNATIONAL ZEUGMA CONFERENCE ON SCIENTIFIC RESEARCH, Gaziantep, Turkey, 25 - 26 June 2023, pp.338
- IV. **W Locus Allele Frequency of The Kit Gene in Turkish Van Cats Bred in Van Cat Research and Application Center**  
Arslan M., Kocaefe Özşen N., İleri M.  
Van Yüzüncü Yıl University 1st International Health Sciences Congress, Van, Turkey, 27 - 29 October 2022, pp.65
- V. **An approach to evaluate plasmid and insert DNA ligation efficiency and desired colony selectability by PCR**  
Arslan M.  
5th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2022), 23

November - 25 December 2022, pp.1119-1123

- VI. **Inverse-nested PCR: An Approach to Prepare DNA Cassette for Gen Manipulations**  
Arslan M.  
11th International Molecular Biology and Biotechnology Congress, 10 - 12 October 2022, pp.40
- VII. **Direct PCR from agarose gel without gel extraction**  
Arslan M.  
7th International Congress on Applied Biological Science (ICABS), 1 - 02 November 2022, pp.20
- VIII. **Effect of centrifugation at different levels of freeze-thawed blood on DNA isolation**  
Arslan M.  
Domestic Animal Breeding Genetics and Husbandry-2021, Odessa, Ukraine, 27 - 28 September 2021, pp.56
- IX. **Whole-genome sequencing and genomic analysis of Norduz Goat**  
Arslan M.  
Domestic Animal Breeding Genetics and Husbandry-2021, Odessa, Ukraine, 27 - 28 September 2021, pp.55
- X. **Comparative Structural and functional analysis of ribulose-1,5- bisphosphate carboxylase/oxygenase (RuBisCO) small subunit of Gossypium hirsutum L.**  
Avci M. K., Arslan M., Tezcan E., Camci H.  
4th International Congress on Agriculture, Environment and Health 20-22 May 2021, Aydın, Turkey, 20 - 22 May 2021, pp.237
- XI. **IN SILICO ANALYSIS OF THE RELATIONSHIP BETWEEN PROTEIN STRUCTURE AND FUNCTION OF CURCUMIN SYNTHASE ENZYME OF MEDICINAL AND AROMATIC CURCUMA LONGA L. (TURMERIC)**  
Avci M. K., Tezcan E., Camci H., Arslan M.  
4th International Congress on Agriculture, Environment and Health , Aydın, Turkey, 20 - 22 May 2021, pp.189-190
- XII. **AN APPROACH FOR FULL LENGTH RE-AMPLIFICATION OF DNA FRAGMENT OBTAINED FROM GEL EXTRACTION**  
Arslan M.  
ISPEC 5th INTERNATIONAL CONFERENCE ON AGRICULTURE, ANIMAL SCIENCE and RURAL DEVELOPMENT, Ankara, Turkey, 13 - 15 November 2020, pp.34
- XIII. **Genomic and transcriptomic analyses of a caffeine-hyperresistant Saccharomyces cerevisiae strain obtained by evolutionary engineering**  
SÜRMEĻİ Y., Holyavkin C., TOPALOĞĻU A., ARSLAN M., Kısakesen H. İ., ÇAKAR Z. P.  
Microbial Stress 2020 Conference (organized by the European Federation of Biotechnology), Roma (pandemi nedeniyle online oldu), Italy, 16 - 18 November 2020, pp.47
- XIV. **EFFECT OF SAMPLE CONCENTRATION ON RESOLUTION AND BAND QUALITY IN AGAROSE GEL ELECTROPHORESIS**  
Arslan M.  
ISPEC 5th INTERNATIONAL CONFERENCE ON AGRICULTURE, ANIMAL SCIENCE and RURAL DEVELOPMENT , Ankara, Turkey, 13 - 15 November 2020
- XV. **A NEW PRIMER SEQUENCE FOR PCR-RFLP ANALYSIS OF A AND B GENETIC VARIANTS OF BOVINE K-CASEIN**  
Arslan M.  
III. Uluslararası AVRASYA Multidisipliner Çalışmalar Kongresi, Gaziantep, Turkey, 4 - 07 April 2019, pp.137
- XVI. **The Prevalence of Varroa destructor Haplotypes Found in Apis mellifera in the Province of Kütahya**  
AYAN A., ARSLAN M.  
Ahtamara I. Uluslararası Multidisipliner Çalışmalar Kongresi, Gevaş/Van, Turkey, 25 - 26 August 2018, pp.254
- XVII. **DNA SEQUENCING FROM SANGER TO TODAY**  
Arslan M., Ayan A.  
AHTAMARA I. ULUSLARARASI MULTİDİSİPLİNER ÇALIŞMALAR KONGRESİ, Van, Turkey, 25 - 26 August 2018, pp.255
- XVIII. **Chronological life span of stress-resistant Saccharomyces cerevisiae mutants obtained by inverse metabolic engineering**  
ARSLAN M., SÜRMEĻİ Y., TOPALOĞĻU A., ÇAKAR Z. P.

International ITU Molecular Biology and Genetics Student Congress'xx17, İstanbul, Turkey, 6 - 08 October 2017

**XIX. Evolutionary Engineering of Caffeine-resistant *Saccharomyces cerevisiae***

SÜRMEĻİ Y., ARSLAN M., TOPALOĐLU A., ÇAKAR Z. P.

PYFF6- Sixth Conference on Physiology of Yeasts and Filamentous Fungi, LÍZBON, Portugal, 11 - 14 July 2016

**XX. Longevity of stress resistant yeast mutants obtained by evolutionary engineering**

ARSLAN M., SÜRMEĻİ Y., TOPALOĐLU A., ÇAKAR Z. P.

Cell Symposia Aging and Metabolism, Sitges, Spain, 10 - 12 July 2016

## Supported Projects

Arslan M., Technopark, Karışım indikatörlü DNA yükleme boyasının geliştirilmesi, 2022 - 2024

Arslan M., KOSGEB, PCR temelli yeni bir yöntem ile DNA Marker üretimi, 2020 - 2022

Yener Z., İNCECİK V., Arslan M., Project Supported by Higher Education Institutions, Azoksimetan ile Deneysel Olarak Kolonik Anormal Kript Oluşturulan Ratlarda Polygonum aviculare Çoban Değneđi Ekstraktinin Koruyucu Etkinliđinin Histopatolojik ve Genetik Olarak Araştırılması, 2019 - 2022

Arslan M., Project Supported by Higher Education Institutions, Norduz Keçisinin Tüm Genomunun Dizilenmesi ve Genomik Analizi, 2019 - 2021

Çakar Z. P., Arslan M., Project Supported by Higher Education Institutions, Molecular and physiological investigation of longevity in yeast, 2015 - 2021

Arslan M., Project Supported by Higher Education Institutions, Donmuş çözünmüş kanın farklı değerlerde santrifüjünün DNA izolasyonu üzerine etkisi, 2019 - 2020

## Patent

Arslan M., BUNKER TİP ELEKTROFOREZ JEL TARAĐI, Utility Model, CHAPTER A Human Needs, The Invention Registration Number: TR 2020 02941 Y , Standard Registration, 2023

Arslan M., Çok Fonksiyonlu Agaroz Jel Döküm Standı, Patent, CHAPTER A Human Needs, The Invention Registration Number: 2019/13878 , Standard Registration, 2023

## Scientific Refereeing

WORLD JOURNAL OF MICROBIOLOGY AND BIOTECHNOLOGY, SCI Journal, July 2023

FRONTIERS IN MICROBIOLOGY, SCI Journal, May 2023

BIOPRESERVATION AND BIOBANKING, Journal Indexed in SCI-E, July 2022

KAFKAS UNIVERSITESI VETERINER FAKULTESI DERGISI, Journal Indexed in SCI-E, June 2021

Journal of applied biological science, Other Indexed Journal, October 2020

TURKISH JOURNAL OF BIOLOGY, Journal Indexed in SCI-E, July 2020

TURKISH JOURNAL OF VETERINARY AND ANIMAL SCIENCES, SCI Journal, January 2020

KAFKAS UNIVERSITESI VETERINER FAKULTESI DERGISI, Journal Indexed in SCI-E, December 2019

## Metrics

Publication: 37

Citation (WoS): 35

Citation (Scopus): 57

H-Index (WoS): 3

H-Index (Scopus): 4

## **Non Academic Experience**

Genafore Biyoteknoloji  
MİLLİ EĞİTİM BAKANLIĞI