

Asst. Prof. Zeynep SÖNMEZ

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Turkey 2013 - 2017

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Turkey 2013 - 2016

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Turkey 2009 - 2013

Undergraduate, Ataturk University, Fen Fakültesi, Turkey 2005 - 2009

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Postgraduate, Simmental ırkı sığırlarda IGFALS gen polimorfizmlerinin dna dizi analizi yöntemi ile belirlenmesi, Ataturk University, Ziraat Fakültesi, Tarımsal Biyoteknoloji, 2021

Doctorate, Sığırlarda verim özelliklerini etkileyen bazı moleküler markır polimorfizmlerinin belirlenmesi ve verimle ilişkilendirilmesi, Ataturk University, Fen Bilimleri Enstitüsü, 2017

Postgraduate, Ebişke (*Clitocybe geotropa*) mantarından saflaştırılıp karakterize edilen endo-beta 1,4-mannanaz enziminin, magnetik kitosan nanopartiküller üzerine immobilize edilmesi ve meyve sularının durultma işleminde kullanılması, Ataturk University, Fen Bilimleri Enstitüsü, 2016

Postgraduate, Doğu Anadolu kırmızısı ve melezi sığırlarda prolaktin geni polimorfizmi, Ataturk University, Fen Bilimleri Enstitüsü, 2013

Research Areas

Agriculture, Chemistry

Academic Titles / Tasks

Assistant Professor, Ataturk University, Ziraat Fakültesi, Tarımsal Biyoteknoloji, 2021 - Continues

Assistant Professor, Iğdır University, Iğdır Faculty Of Agriculture, Department Of Zootechnics, 2019 - 2021

Academic and Administrative Experience

Head of Department, Iğdir University, 2019 - 2021

Courses

Hayvan Besleme Biyoteknolojisi , Undergraduate, 2022 - 2023

Biyçeşitlilik ve Gen Kaynaklarının Korunması, Undergraduate, 2022 - 2023

Uzmanlık Alan Dersi, Postgraduate, 2022 - 2023

Mezuniyet Çalışması II, Undergraduate, 2022 - 2023

Hayvansal Biyoteknoloji Alanında Omic Teknolojilerinin Kullanımı ve Uygulamaları, Postgraduate, 2022 - 2023

Tarımsal Biyoteknoloji, Undergraduate, 2022 - 2023

Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, January, 2024

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The Effects of Somatotrophic Axis Gene Polymorphisms on Milk Yields in Simmental Cattle**
Sonmez Z., Kopuzlu S., Ozdemir M.
JOURNAL OF THE HELLENIC VETERINARY MEDICAL SOCIETY, vol.74, no.4, pp.6589-6598, 2023 (SCI-Expanded)
- II. **Determination of Polymorphisms in the GDF5 and EPS8 Genes by HRM Analysis in Holstein Cattle**
Sonmez Z., Özdemir M.
PAKISTAN JOURNAL OF ZOOLOGY, vol.53, no.5, pp.1857-1865, 2021 (SCI-Expanded)
- III. **ASSOCIATIONS BETWEEN PRL/RsaI POLYMORPHISM AND SOME PERFORMANCE TRAITS IN HOLSTEIN CATTLE REARED UNDER ORGANIC CONDITION**
Ozdemir M., Sonmez Z., Aksakal V.
JOURNAL OF ANIMAL AND PLANT SCIENCES-JAPS, vol.31, no.3, pp.900-905, 2021 (SCI-Expanded)
- IV. **Fungal fermentation inducing improved nutritional qualities associated with altered secondary protein structure of soybean meal determined by FTIR spectroscopy**
Yasar S., Tosun R., Sonmez Z.
MEASUREMENT, vol.161, 2020 (SCI-Expanded)
- V. **A thermostable-endo-beta-(1,4)-mannanase from *Pediococcus acidilactici* (M17): purification, characterization and its application in fruit juice clarification**
Nadaroğlu H., Adiguzel G., Adıgüzel A., Sonmez Z.
EUROPEAN FOOD RESEARCH AND TECHNOLOGY, vol.243, no.2, pp.193-201, 2017 (SCI-Expanded)
- VI. **Prolactin-RsaI gene polymorphism in East Anatolian Red cattle in Turkey**
Sönmez Z., Özdemir M.
SOUTH AFRICAN JOURNAL OF ANIMAL SCIENCE, vol.47, no.2, pp.124-129, 2017 (SCI-Expanded)
- VII. **Purification of an endo beta 1 4 Mannanase from *Clitocybe geotropa* and immobilization on chitosan coated magnetite nanoparticles Application for fruit juices**
NADAROĞLU H., SONMEZ Z.
Digest Journal Of Nanomaterials And Biostructures, vol.11, pp.685-697, 2016 (SCI-Expanded)
- VIII. **Purification and characterization of a thermostable endo-beta-1,4 mannanase from *Weissella viridescens* LB37 and its application in fruit juice clarification**
Adiguzel G., Sonmez Z., Adıgüzel A., Nadaroğlu H.
EUROPEAN FOOD RESEARCH AND TECHNOLOGY, vol.242, no.5, pp.769-776, 2016 (SCI-Expanded)

Articles Published in Other Journals

- I. **The Relationship of POU1F1-Hinfl Gene Polymorphisms on Milk Yields in Simmental Cattle**
Sönmez Z., Ünal H.
Yüzüncü Yıl Üniversitesi Tarım Bilimleri Dergisi, vol.33, no.4, pp.513-521, 2023 (Scopus)
- II. **IGFALS Gene Polymorphisms in Simmental Breed Cattle**
Genc R., Sönmez Z.
Türk Tarım - Gıda Bilim ve Teknoloji dergisi, vol.11, no.4, pp.846-850, 2023 (Peer-Reviewed Journal)
- III. **Holstein İneklerde GH/AluI Polimorfizmi ile Bazı Süt Verim Özellikleri Arasındaki İlişkiler**
Sözmez Z., Özdemir M., Bayram B., Aksakal V.
turjaf, vol.6, no.5, pp.602-606, 2018 (Peer-Reviewed Journal)
- IV. **bGH/AluI and CSN3/Hinfl Gene Polymorphisms in Holstein Cattle**
ÖZDEMİR M., SÖZMEZ Z., TOPAL M.
Journal of Life Sciences Research, vol.5, 2018 (Peer-Reviewed Journal)
- V. **Büyüme Hormonu Geni Polimorfizminin Buzağı Doğum Ağırlığı Üzerine Etkisi**
SÖNMEZ Z., ÖZDEMİR M., AKSAKAL V.
Turkish Journal of Agriculture-Food Science and Technology, vol.5, 2017 (Peer-Reviewed Journal)
- VI. **Soya Bitkisindeki Glutasyon Redüktaz Aktivitesi ve mRNA Seviyesinin Kuraklık Stresinde Salisilik Asit ile Değişimleri**
Taşğın E., Nadaroğlu H., Adıgüzel A., Baltacı M. Ö., Sönmez Z.
Academic Platform-Journal of Engineering and Science, vol.1, no.1, pp.48, 2017 (Peer-Reviewed Journal)
- VII. **Büyüme Hormonu Geni Polimorfizminin Buzağı Doğum Ağırlığı Üzerine Etkisi**
SÖNMEZ Z.
TURKISH JOURNAL OF AGRICULTURE: FOOD SCIENCE AND TECHNOLOGY, vol.5, no.13, pp.1781-1784, 2017 (Peer-Reviewed Journal)
- VIII. **Doğu Anadolu Kırmızısı Melez Sığırlarda Prolaktin Geni Polimorfizmi1**
SÖNMEZ Z.
Atatürk Üniversitesi Ziraat Fakültesi Dergisi, vol.46, no.2, pp.119-123, 2015 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **CHAPTER 8 SINGLE MOLECULE SEQUENCING TOOLS (THIRD GENERATION GENE SEQUENCING TECHNIQUES)**
Sönmez Z.
in: AGRICULTURAL SCIENCES AND MANAGEMENT, Assist. Prof. Dr. Zeynep DUMANOĞLU, Editor, İksad Yayınevi, Ankara, pp.141-170, 2023
- II. **BÖLÜM 9 YENİ NESİL GEN SEKANSLAMA TEKNİKLERİ**
Sönmez Z.
in: TARIMSAL BİTKİ BİLİMİNİN DİNAMİKLERİ, Doç. Dr. Görkem ÖRÜK, Editor, İksad Yayınevi, Ankara, pp.127-160, 2023

Refereed Congress / Symposium Publications in Proceedings

- I. **A COMPREHENSIVE BIBLIOMETRIC ANALYSIS OF MACHINE LEARNING APPLICATIONS IN CATTLE BREEDING AND PRODUCTION**
Sönmez Z., Ekinci K., Kopuzlu S.
ISPEC 14th INTERNATIONAL CONFERENCE ON AGRICULTURE, ANIMAL SCIENCES AND RURAL DEVELOPMENT, İzmir, Turkey, 22 March 2024
- II. **Bibliometric Analyses of Gene Editing in Livestock**

Sönmez Z.

5TH INTERNATIONAL CONFERENCE ON FOOD, AGRICULTURE AND ANIMAL SCIENCES, Antalya, Turkey, 23 November 2023, pp.369-384

- III. **DETERMINATION OF IGFALS GENE POLYMORPHISM IN SIMMENTAL BREED OF CATTLE BY THE DNA SEQUENCE METHOD**
Sönmez Z.
MIDDLE EAST INTERNATIONAL CONFERENCE ON CONTEMPORARY SCIENTIFIC STUDIES-VII, Bayrut, Lebanon, 3 - 04 March 2022, pp.453-462
- IV. **SİMMENTAL IRKI SIĞIRLARDA IGFALS GEN POLİMORFİZMİNİN DNA DİZİ ANALİZİ YÖNTEMİ İLE BELİRLENMESİ**
GENÇ R., SÖNMEZ Z.
MIDDLE EAST INTERNATIONAL CONFERENCE ON CONTEMPORARY SCIENTIFIC STUDIES-VII, beyrut, Lebanon, 3 - 04 March 2022, pp.454-462
- V. **EFFECTS OF ELF5 AND FGF21 GENE POLYMORPHISMS ON SOME PERFORMANCE TRAITS IN BROWN SWISS CATTLE**
SÖNMEZ Z., ÖZDEMİR M.
MAS 16th INTERNATIONAL European Conference On Mathematics, Engineering, Natural & Medical Sciences, Mardin, Turkey, 22 - 23 February 2022, pp.345-360
- VI. **EFFECTS OF ELF5 AND FGF21 GENE POLYMORPHISMS ON SOME PERFORMANCE TRAITS IN BROWN SWISS CATTLE**
Sönmez Z., Özdemir M.
MAS 16th INTERNATIONAL European Conference On Mathematics, Engineering, Natural & Medical Sciences, Mardin, Turkey, 22 - 23 February 2022, pp.345-360
- VII. **Determination and Relationship of Some Molecular Marker Polymorphisms Affecting Production Traits in Cattle Breed**
SÖNMEZ Z., ÖZDEMİR M.
International Animal Science Conference, 20 October 2019, pp.273-274
- VIII. **Fungal Fermantasyonu ile Soya Fasulyesi Küspesinden Fonksiyonel Ürün Elde Etme**
TOSUN R., YAŞAR S., SÖNMEZ Z.
ISPEC 3. ULUSLARARASI TARIM, HAYVANCILIK ve KIRSAL KALKINMA KONGRESİ, Van, Turkey, 20 - 22 December 2019, vol.1, pp.727-739
- IX. **IMPROVED NUTRITIONAL QUALITIES OF SUNFLOWER MEAL BY FERMENTATION**
TOSUN R., YAŞAR S., SÖNMEZ Z.
INTERNATIONAL BIOLOGICAL, AGRICULTURAL AND LIFE SCIENCE CONGRESS, Lviv, Ukraine, 7 - 08 November 2019, vol.1, pp.98-105
- X. **Büyüme Hormonu Geni Polimorfizminin Buzacağı Doğum Ağırlığı Üzerine Etkisi / Effect of Growth Hormone Genetic Polymorphism on Calf Birth Weight**
SÖNMEZ Z., ÖZDEMİR M., AKSAKAL V.
1st International Organic Agriculture and Biodiversity Symposium, 29 September - 01 October 2017
- XI. **Büyüme Hormonu Geni Polimorfizminin Buzacağı Doğum Ağırlığı Üzerine Etkisi**
SÖNMEZ Z., ÖZDEMİR M., AKSAKAL V.
1st International Organic Agriculture and Biodiversity Symposium, Bayburt, Turkey, 27 - 29 September 2017, pp.105
- XII. **Soya Bitkisindeki Glutatyon Redüktaz Aktivitesi ve mRNA Seviyesinin Kuraklık Stresinde Salisilik Asit ile Değişimleri**
TAŞĞIN E., NADAROĞLU H., ADIGÜZEL A., BALTACI M. Ö., SÖNMEZ Z.
ISEM2016, 3rd International Symposium on Environment and Morality, 4 - 06 November 2016, pp.1009-1014
- XIII. **Expression and Activity of Glutathione Reductase under Drought Stress and Salicylic Acid Treatment in Leaves of soybean**
TAŞĞIN E., NADAROĞLU H., ADIGÜZEL A., BALTACI M. Ö., SONMEZ Z.
ISEM2016, 3rd International Symposium on Environment and Morality, 22 - 25 September 2016

- XIV. **Investigation of Clarification of Some Fruit Juices of An Thermostable endo beta 1 4 mannanase from *Pediococcus acidilactici* M17**
BABAGİL A., NADAROĞLU H., ÇANAKÇI ADIGÜZEL G., ADIGÜZEL A., SÖNMEZ Z.
4th International ISEKI-Food Conference, Vienna, Austria, 6 - 08 July 2016
- XV. **Investigation of Clarification of Some Fruit Juices of An Thermostable endo 1 4 mannanase from *Pediococcus acidilactici* M17 6 8 July 2016 Vienna Austria**
AYNUR b., NADAROĞLU H., ADIGÜZEL A., ÇANAKÇI ADIGÜZEL G., SONMEZ Z.
4th International ISEKI-Food Conference, 6 - 08 July 2016
- XVI. **Synthsis Of New Areas derived From Sulfonamides As Potential Anticancer Agents**
ÇELİK H., NADAROĞLU H., SÖNMEZ Z., TÜRK S., TOK F., KARAKUŞ S., KAYMAKÇIOĞLU B.
3rd International BAU-Drug Design Congress, Novel Methods and Emerging Targets In Drug Discovery & Patented Drug Development, 1 - 03 October 2015
- XVII. **The Purification and Properties of Mananase Biocatalysts from *Clitocybe geotropa* and Immobilization on Modified Chitosan Particulates With Nano Fe3O4 and Its Application in Food Process**
NADAROĞLU H., SONMEZ Z.
3rd International Symposium on Traditional Foods from Adriatic to Caucasus, 1 - 04 October 2015
- XVIII. **Organik Yetiştirilen Holstein Sığırlarda bGH Alu ve CSN3 Hinfl Geni Polimorfik Yapıları**
ÖZDEMİR M., ZEYNEP S., TOPAL M.
Selçuk Üniversitesi, 9.Ulusal Zootekni Bilim Kongresi, 2015, Turkey, 3 - 05 September 2015
- XIX. **Polymorphism of prolactin PRL gene in the East Anatolian red raised as genetic resource in Turkey**
ZEYNEP S., ÖZDEMİR M.
BALNIMALCON 2015, 7TH BALKAN CONFERENCE ON ANIMAL SCIENCE, 3 - 06 June 2015
- XX. **Purification and Characterization of Phytase from Pinar Melkior (*Lactarius piperatus*) and Immobilization on the Surface of Modified Chitosan with Nano-Fe3O4**
NADAROĞLU H., ÇİÇEK S., ONEM H., Sönmez Z.
NanoNG2014, Elazığ, Turkey, 20 - 22 August 2014, pp.23
- XXI. **Nadaroğlu, H., Cicek, S., Onem, H., Sonmez, Z. Purification and Characterization of Phytase from Pinar Melkior (*Lactarius piperatus*) and Immobilization on the Surface of Modified Chitosan with Nano-Fe3O4**
NADAROĞLU H., ÇİÇEK S., Önem H., Sönmez Z.
International NanoNG'2014, 20 - 22 August 2014

Supported Projects

- KOPUZLU S., ÖZDEMİR M., SÖNMEZ Z., ÜNAL H., Project Supported by Higher Education Institutions, Esmer İsviçre Irkı Sığırlarda DGAT1 Cfrl ve FASN MscI Gen Polimorfizmi ve Bazı Süt Verim Özellikleri İle İlişkileri, 2023 - 2024
- Sönmez Z., Ekinci K., Yusufova T., Project Supported by Higher Education Institutions, Sağlıklı Dişler, Sağlıklı Gülüşler, 2022 - 2023
- Sönmez Z., Ekinci K., Ünal H., Aydın İ., Project Supported by Higher Education Institutions, Zeka Oyunları ile Dikkat Geliştirme, 2022 - 2023
- Sönmez Z., Ekinci K., Aydın I., Ünal H., Project Supported by Higher Education Institutions, Zeka Oyunlarıyla Motivasyon Artırma, 2022 - 2023
- Özdemir M., Sönmez Z., Project Supported by Higher Education Institutions, Siyah Alaca Sığırlarda Bazı Verim Özelliklerini Etkileyen Moleküler Markör Polimorfizmlerinin Belirlenmesi, 2015 - 2017

Activities in Scientific Journals

- Palandöken Journal of Animal Sciences Technology and Economics (e-ISSN: 2822-3039), Committee Member, 2021 -

Continues

Scientific Refereeing

HELIYON, SCI Journal, March 2024

TURKISH JOURNAL OF VETERINARY AND ANIMAL SCIENCES, SCI Journal, February 2024

TURKISH JOURNAL OF VETERINARY AND ANIMAL SCIENCES, SCI Journal, February 2024

HELIYON, SCI Journal, December 2023

Animal Nutrition, SCI Journal, May 2023

INTERNATIONAL JOURNAL OF AGRICULTURE, ENVIRONMENT AND FOOD SCIENCES, National Scientific Refreed Journal, March 2022

Metrics

Publication: 40

Citation (WoS): 74

Citation (Scopus): 94

H-Index (WoS): 5

H-Index (Scopus): 5

Congress and Symposium Activities

5TH INTERNATIONAL CONFERENCE ON FOOD, AGRICULTURE AND ANIMAL SCIENCES 23-26 NOVEMBER 2023

ANTALYA, TURKEY (FACE TO FACE AND ONLINE), Attendee, Antalya, Turkey, 2023