

Assoc. Prof. ŞENAY AKIN

Personal Information

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International Researcher IDs

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Yoksis Researcher ID: 182494

Biography

Dr. Akin received her BSc from Hacettepe University Faculty of Sports Sciences. She earned her MS and PhD from the Institute of Health Sciences, Hacettepe University. She has been working as a research assistant and a member of Dr. Demirel's research lab at Hacettepe University Faculty of Sports Sciences since 2005. During her postgraduate education, she worked as a researcher at Juntendo University Sport and Health Institute for 3 months in 2007, Semmelweis University Sports Science Research Institute for 5 months in 2009, and a teaching hospital of Harvard Medical School, Beth Israel Deaconess Medical Center in 2010-2011. Dr. Akin's research focuses on the cellular responses to environmental stresses such as physical activity and inactivity, the molecular regulation of protein degradation in skeletal muscle during immobilization characterized by muscle wasting, and signaling pathways associated with skeletal muscle atrophy.

Education Information

Doctorate, Hacettepe University, Spor Bilimleri Fakültesi, Egzersiz Ve Spor Bilimleri Bölümü / Egzersiz Ve Spor Fizyolojisi Abd, Turkey 2006 - 2015

Foreign Languages

English, B1 Intermediate

Certificates, Courses and Trainings

Health&Medicine, Sağlık Bilimlerinde Uygulamalı Proje Geliştirme Yürütme Sonuçlandırma Eğitimi, Hacettepe Üniversitesi, 2018

Dissertations

Doctorate, İskelet kasında tüm vücut titreşimi ve immobilizasyonun protein sentez ve yıkımında rol oynayan sinyal yolları üzerine etkisi, Hacettepe Üniversitesi, Spor Bilimleri Fakültesi, Egzersiz ve Spor Bilimleri Bölümü, 2015

Research Areas

Academic Titles / Tasks

Associate Professor, Hacettepe University, Spor Bilimleri Fakültesi, Egzersiz Ve Spor Bilimleri Bölümü, 2022 - Continues
Assistant Professor, Hacettepe University, Spor Bilimleri Fakültesi, Egzersiz Ve Spor Bilimleri Bölümü, 2018 - 2022

Academic and Administrative Experience

Head of Department, Hacettepe University, Spor Bilimleri Fakültesi, Egzersiz Ve Spor Bilimleri Bölümü, 2022 - Continues
Hacettepe Üniversitesi, Spor Bilimleri Fakültesi, 2016 - 2017

Courses

Egzersiz Fizyolojisi, Undergraduate, 2023 - 2024
Egzersiz Fizyolojisi, Postgraduate, 2023 - 2024
Kas Fizyolojisi Laboratuvar Yöntemleri, Postgraduate, 2022 - 2023
Spor Biyokimyası, Undergraduate, 2018 - 2019
Moleküler Egzersiz Fizyolojisine Giriş, Undergraduate, 2017 - 2018

Advising Theses

Akın Ş., Yaşam Alanı Sınırlandırılan Sıçanların İskelet Kasında Oksidatif Hasarın İncelenmesi, Postgraduate, İ.GÜNGÖR(Student), 2023
Akın Ş., Egzersizle indüklenen HSP72'nin glukokortikoid kaynaklı iskelet kası atrofisinin önlenmesindeki rolü, Postgraduate, B.ÖZERKLİĞ(Student), 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Galectin-3 levels in children with cystic fibrosis**
Ademhan Tural D., EMİRALİOĞLU ORDUKAYA N., AKIN Ş., Alboga D., Ozsezen B., Nayir Buyuksahin H., GÜZELKAŞ İ., Kasikci M., SUNMAN B., GÜNGÖR İ., et al.
European Journal of Pediatrics, vol.183, no.5, pp.2333-2342, 2024 (SCI-Expanded)
- II. **Long-term Dexamethasone Treatment Increases Cardiac Galectin-3 Levels.**
Akin Ş., Gucuk-Ipek E., Hayta U., Gungor I., Kubat G. B., Akin Y., Guray U., Demirel H. A.
Cardiovascular drugs and therapy, vol.37, no.5, pp.1027-1029, 2023 (SCI-Expanded)
- III. **Reply to the Letter to the Editor Titled "The Effects of Dexamethasone on Cardiovascular Disease: Friend or Foe?" by Han et al**
AKIN Ş., Demirel H. A.
CARDIOVASCULAR DRUGS AND THERAPY, vol.37, no.5, pp.845-846, 2023 (SCI-Expanded)
- IV. **Exercise Prevents Glucocorticoid-Induced Myocardial 4-Hydroxynonenal Production**
Hayta U., Akin Ş., Gungor I., Colluoglu I. T., Guray U., Akin Y., Demirel H. A.
CARDIOVASCULAR DRUGS AND THERAPY, no.10.1007/s10557-023-07506-4, pp.1-4, 2023 (SCI-Expanded)
- V. **Requirements for successful mitochondrial transplantation**
Kubat G. B., Ulger O., Akin Ş.
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, vol.35, no.11, 2021 (SCI-Expanded)
- VI. **Possible Adaptation of the Adrenal Gland Hsp72 Expression to Hypoxic Stress**

- AKIN Ş., BAŞTUĞ M., ÇOLAK R., FIÇICILAR H., Sağlam B. S., Kosar N. S., Demirel H.
HIGH ALTITUDE MEDICINE & BIOLOGY, vol.22, no.3, pp.293-299, 2021 (SCI-Expanded)
- VII. **Possible value of galectin-3 on follow-up of cardiac remodeling during glucocorticoid treatment**
AKIN Ş., Kubat G. B., Guray U., AKIN Y., Demirel H. A.
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, vol.35, no.4, 2021 (SCI-Expanded)
- VIII. **Galectin-3: A New Biomarker for Atherosclerosis Management**
Akin Y., Demirkan B., Suljevic S., Gucuk Ipek E.
ANGIOLOGY, vol.71, no.10, pp.966, 2020 (SCI-Expanded)
- IX. **Acute long-distance trail running increases serum IL-6, IL-15, and Hsp72 levels**
Yargic M. P., Torgutalp S., AKIN Ş., BABAYEVA N., Torgutalp M., Demirel H. A.
APPLIED PHYSIOLOGY NUTRITION AND METABOLISM, vol.44, no.6, pp.627-631, 2019 (SCI-Expanded)
- X. **Short-term treadmill exercise in a cold environment does not induce adrenal Hsp72 and Hsp25 expression**
AKIN Ş., NAITO H., Ogura Y., ICHINOSEKI-SEKINE N., KUROSAKA M., KAKIGI R., Demirel H. A.
JOURNAL OF PHYSIOLOGICAL SCIENCES, vol.67, no.3, pp.407-413, 2017 (SCI-Expanded)
- XI. **Meloxicam and diclofenac do not change VEGF and PDGF-AB serum levels of platelet-rich plasma**
Utku B., DÖNMEZ G., Erisgen G., AKIN Ş., Demirel H. A., KORKUSUZ F., Doral M. N.
TURKISH JOURNAL OF MEDICAL SCIENCES, vol.47, no.2, pp.570-576, 2017 (SCI-Expanded)
- XII. **Effects of immobilization and whole-body vibration on rat serum Type I collagen turnover**
DÖNMEZ G., DORAL M. N., SULJEVIC Ş., SARGON M. F., BİLGİLİ H., DEMİREL A. H.
ACTA ORTHOPAEDICA ET TRAUMATOLOGICA TURCICA, vol.50, no.4, pp.452-457, 2016 (SCI-Expanded)
- XIII. **Evaluation of galectin-3 levels in acute coronary syndrome.**
Gucuk Ipek E., Akin Suljevic S., Kafes H., Basyigit F., Karalok N., Guray Y., Dinc Asarcikli L., Acar B., Demirel H.
Annales de cardiologie et d'angiologie, vol.65, no.1, pp.26-30, 2016 (SCI-Expanded)
- XIV. **Spirolactone does not alter cystatin C levels in mildly symptomatic systolic heart failure patients**
GUCUK E., Suljevic S. A., KARALOK N., GURAY Y., Demirel H.
EUROPEAN JOURNAL OF HEART FAILURE, vol.16, pp.69, 2014 (SCI-Expanded)
- XV. **Elevation of body temperature is an essential factor for exercise-increased extracellular heat shock protein 72 level in rat plasma**
Ogura Y., Naito H., Akin Ş., Ichinoseki-Sekine N., Kurosaka M., Kakigi R., Sugiura T., Powers S. K., Katamoto S., Demirel H. A.
AMERICAN JOURNAL OF PHYSIOLOGY-REGULATORY INTEGRATIVE AND COMPARATIVE PHYSIOLOGY, vol.294, 2008 (SCI-Expanded)
- XVI. **Elevation Of Body Temperature Is Associated With Exercise-Increased Extracellular Heat Shock Protein 72 Level In Rat Plasma**
Ogura Y., NAITO H., AKIN Ş., ICHINOSEKI-SEKINE N., KUROSAKA M., KAKIGI R., Sugiura T., KATAMOTO S., Demirel H. A.
MEDICINE AND SCIENCE IN SPORTS AND EXERCISE, vol.40, no.5, 2008 (SCI-Expanded)

Articles Published in Other Journals

- I. **İskelet Kas Kütlesini Düzenleyen Moleküler Mekanizmalar**
AKIN Ş., ÖZERKLİĞ B., TÜRKEL İ., DEMİREL A. H.
Turk J Sports Med, vol.54, 2018 (Peer-Reviewed Journal)
- II. **Tüm Vücut Titreşimi İmmobilizasyon ile Azalan AMPK Aktivasyonunu Arttırır mı?**
AKIN Ş., DÖNMEZ G., ÖZDEMİR M., DEMİREL A. H.
Turk J Sports Med, vol.53, pp.174-181, 2018 (Peer-Reviewed Journal)
- III. **Eksantrik Egzersizler ve Spor Yaralanmalarından Korunmadaki Yeri**
Utku B., AKIN Ş.
Türkiye Klinikleri Spor Hekimliği Özel Sayısı, vol.3, pp.233-239, 2017 (Peer-Reviewed Journal)

- IV. **Sarkopeni ve Egzersiz**
AKIN Ş., DEMİREL A. H.
Türkiye Klinikleri Spor Hekimliği Özel Sayısı, vol.3, pp.136-142, 2017 (Peer-Reviewed Journal)
- V. **Sporcu Kızlarda Şiddetli Antrenman ve Yeme Bozukluğunun Yol Açtığı Sağlık Riskleri**
AKIN Ş., DEMİREL A. H.
Katkı Pediatri Dergisi, vol.37, pp.593-599, 2017 (Peer-Reviewed Journal)
- VI. **İskelet Kası Uydu Hücreleri ve Kas Rejenerasyonundaki Yeri**
AKIN Ş., DEMİREL A. H.
Türkiye Klinikleri Spor Hekimliği Özel Sayısı, vol.3, pp.227-232, 2017 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **The role of whole-body vibration on bed rest model-induced skeletal muscle atrophy and fiber type composition**
Akin Ş.
25th Annual Congress of the European College of Sports Science, Sevilla, Spain, 28 - 30 October 2020, pp.1-2
- II. **Titreşimin Remobilizasyon Döneminde İskelet Kası HSP Ekspresyonuna Etkisi.**
AKIN Ş., TÜRKEL İ., ÖZERKLİĞ B., DÖNMEZ G., DEMİREL A. H.
16th International Sport Sciences Congress, 30 October - 03 November 2018
- III. **İmmobilizasyon ve Remobilizasyonun Adrenal Bezi TNF α ve Hsp72 Düzeylerine Etkisi**
AKIN Ş., TÜRKEL İ., ÖZERKLİĞ B., DÖNMEZ G., DEMİREL A. H.
16. International Sport Sciences Congress, İstanbul, Turkey, 31 October - 03 November 2018, pp.1282-1285
- IV. **Whole Body Vibration Restores Immobilization-induced AMPK Activation**
AKIN Ş., DÖNMEZ G., ÖZDEMİR M., DEMİREL A. H.
15th International Sports Sciences Congress, 15 - 18 November 2017
- V. **Sıçan Medial Gastrocnemius Kasında İmmobilizasyon ve Tüm Vücut Titreşiminin Miyozin Ağır Zinciri İzofomlarına Etkisi**
ÖZDEMİR M., AKIN Ş., DÖNMEZ G., DEMİREL A. H.
15. Uluslararası Spor Bilimleri Kongresi, Antalya, Turkey, 15 - 18 November 2017
- VI. **The Effects of Whole Body Vibration and Immobilization on Protein Synthesis and Degradation Pathways**
AKIN Ş., DÖNMEZ G., ÖZDEMİR M., NAİTO H., POWERS S., DEMİREL A. H.
22nd Annual Congress of the European College of Sport Science, MetropolisRuhr, Germany, 5 - 08 July 2017
- VII. **The Effect of Immobilisation and Whole Body Vibration on MHC Isoforms in Rat Skeletal Muscle**
ÖZDEMİR M., AKIN Ş., DÖNMEZ G., DEMİREL A. H.
34th World Congress of Sports Medicine, Slovenia, 29 September - 02 October 2016, vol.50, pp.111-111
- VIII. **İNSÜLİN DİRENCİNDE FİZİKSEL AKTİVİTENİN ÖNEMİ**
DEMİREL A. H., AKIN Ş.
Hacettepe Beslenme ve Diyetetik Günleri V. Mezuniyet Sonrası Eğitim Kursu, Turkey, 25 - 27 June 2015
- IX. **Türkiye fiziksel aktivite düzeyleri araştırması**
AKIN Ş., SAYGIN A., KOŞAR Ş. N., DEMİREL A. H.
14. Ulusal Spor Hekimliği Kongresi, Turkey, 13 - 14 December 2013
- X. **İlköğretim öğrencileri fiziksel aktivite araştırması**
SAYGIN A., AKIN Ş., KOŞAR Ş. N., DEMİREL A. H.
14. Ulusal Spor Hekimliği Kongresi, Turkey, 13 - 14 December 2013
- XI. **Spirolactone Reduces Galectin-3 Levels in Mildly Symptomatic Systolic Heart Failure Patients**
INEK E. G., Suljevic S. A., Demirel H., KARALOK N., Güray Y.
Scientific Sessions and Resuscitation Science Symposium of the American-Heart-Association, Texas, United States Of America, 16 - 17 November 2013, vol.128
- XII. **Elevated Galectin-3 Levels are Related with Increased Volumes in Systolic Heart Failure Patients**

IPEK E. G., Suljevic Ş., Kafes H., Başığit F., KARALOK N., Güray Y., ASARCIKLI L. D., Demirel H.
29th Turkish Cardiology Congress of the Turkish-Society-of-Cardiology (TSC) with International Participation,
Antalya, Turkey, 26 - 29 October 2013, vol.62

XIII. Evaluation of Galectin-3 Levels in Acute Coronary Syndrome and its Relation with the Burden of Atherosclerosis

IPEK E. G., Suljevic S. A., Kafes H., Başığit F., KARALOK N., Güray Y., ASARCIKLI L. D., Demirel H.
29th Turkish Cardiology Congress of the Turkish-Society-of-Cardiology (TSC) with International Participation,
Antalya, Turkey, 26 - 29 October 2013, vol.62

XIV. Chronic hypoxia does not cause the induction of heat shock protein 72 in rat adrenal gland

AKIN Ş., FIÇICILAR H., ÇOLAK R., BAŞTUĞ M., KOŞAR Ş. N., DEMİREL A. H.
13th Annual Congress of European College of Sport Science., Estoril, Portugal, 9 July - 11 August 2008

XV. Kronik Hipoksi Sıçan Adrenal Bezinde Stres Proteini 72 Hsp72 İndüksiyonuna Yol Açmaz

AKIN Ş., FIÇICILAR H., ÇOLAK R., BAŞTUĞ M., KOŞAR Ş. N., DEMİREL A. H.
11. Ulusal Spor Hekimliği Kongresi, Antalya, Turkey, 6 - 09 December 2007

XVI. Reliability of A 5m Multiple Shuttle Run Test and Its Relation to Repeated Wingate Test

AKIN Ş., KOŞAR Ş. N., DEMİREL A. H.
The 10th ICHPERD-SD Europe Congress & The TSSA 8th International Sports Science Congress, Antalya, Turkey, 17
- 20 November 2004

Supported Projects

AKI F. T., AKIN Ş., DEMİREL A. H., ALTAN M., KÖSEMEHMETOĞLU K., MAMMADALİYEV T., Project Supported by Higher Education Institutions, Tüm Vücut Titreşiminin İmmobil Sıçanlarda Testis Morfolojisi ve Oksidatif Stres Üzerine Etkisi, 2023 - Continues

AKIN Ş., DEMİREL A. H., Güngör İ., Project Supported by Higher Education Institutions, Tüm Vücut Titreşiminin Kullanılmamaya Bağlı İskelet Kası Oksidatif Hasarı Üzerine Etkisi, 2023 - Continues

YILDIZ O. B., MÜMÜŞOĞLU S., AKIN Ş., DEMİREL A. H., SÖNMEZOĞLU KÜTÜK İ., ÇİFTÇİ T. T., Project Supported by Higher Education Institutions, Polikistik Over Sendromu PKOS Tanılı Hastaların Humanin ve MOTSc Düzeylerinin Sağlıklı Bireylerle Karşılaştırılması, 2023 - Continues

Demirel A. H., Akin Ş., Onbaşlar İ., Korkusuz P., Nemutlu E., TÜBİTAK Project, BGP-15'in dayanıklılık performansına ve kullanmamaya bağlı iskelet kası atrofisi üzerine etkisi, 2023 - 2025

CİNEMRE Ş. A., KARAÇOBAN L., AKIN Ş., DERMAN O., DEMİREL A. H., Project Supported by Higher Education Institutions, AKUT YÜZME EGZERSİZİNİN SERUM MİYOKİN DÜZEYLERİNE ETKİSİ, 2022 - 2023

EMİRALİOĞLU ORDUKAYA N., ÖZÇELİK H. U., KİPER E. N., DOĞRU ERSÖZ D., YALÇIN E. E., DEMİREL A. H., AKIN Ş., ADEMHAN TURAL D., ÖZSEZEN B., SUNMAN B., et al., Project Supported by Higher Education Institutions, Kistik Fibrozis Hastalığında Galektin3ün İnflamasyondaki Rolü, 2021 - 2023

Akin Ş., Demirel A. H., TÜBİTAK Project, Tüm Vücut Titreşiminin Kullanılmamaya Bağlı İskelet Kası Atrofisinin Önlenmesindeki Rolü, 2018 - 2020

DEMİREL A. H., AKIN Ş., YARGIÇ M. P., TORĞUTALP Ş. Ş., Project Supported by Higher Education Institutions, Akut Uzun Süreli Doğa Koşusunun Plazma Miyokin Seviyelerine Etkisi, 2017 - 2019

DEMİREL A. H., SULJEVİC Ş., Project Supported by Higher Education Institutions, İskelet Kasında Tüm Vücut Titreşimi ve İmmobilizasyonun Protein Sentez ve Yıkımında Rol Oynayan Sinyal Yolakları Üzerine Etkisi, 2015 - 2016

DEMİREL A. H., AKIN Ş., KOŞAR Ş. N., Project Supported by Higher Education Institutions, Uzun süreli yüzme egzersizinin genç ve yaşlı sıçanlarda kalp kası antioksidan savunma mekanizması ve sitokinler üzerine etkisi, 2014 - 2016

DEMİREL A. H., DÖNMEZ G., AKIN Ş., Project Supported by Higher Education Institutions, İmmobilizasyon ve Titreşim Uygulamasının Aşil Tendonu Üzerine Etkisi, 2011 - 2016

Scientific Refereeing

CELL BIOCHEMISTRY AND BIOPHYSICS, Journal Indexed in SCI-E, July 2024
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Canakkale Onsekiz Mart University, Turkey, July 2024
TUBITAK Project, 1002 - Quick Support Program, Tarsus University, Turkey, July 2024
EUROPEAN JOURNAL OF PREVENTIVE CARDIOLOGY, Journal Indexed in SCI-E, June 2024
CARDIOVASCULAR DRUGS AND THERAPY, Journal Indexed in SCI-E, June 2024
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Manisa Celal Bayar University, Turkey, June 2024
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Inonu University, Turkey, June 2024
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Gaziantep University, Turkey, June 2024
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Hacettepe University, Turkey, June 2024
CARDIOVASCULAR DRUGS AND THERAPY, Journal Indexed in SCI-E, May 2024
EUROPEAN JOURNAL OF PREVENTIVE CARDIOLOGY, Journal Indexed in SCI-E, May 2024
EUROPEAN JOURNAL OF PREVENTIVE CARDIOLOGY, Journal Indexed in SCI-E, May 2024
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Akdeniz University, Turkey, May 2024
EUROPEAN JOURNAL OF PREVENTIVE CARDIOLOGY, Journal Indexed in SCI-E, April 2024
Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Canakkale Onsekiz Mart University, Turkey, April 2024
CARDIOVASCULAR DRUGS AND THERAPY, Journal Indexed in SCI-E, March 2024
EUROPEAN JOURNAL OF PREVENTIVE CARDIOLOGY, Journal Indexed in SCI-E, March 2024
EUROPEAN JOURNAL OF PREVENTIVE CARDIOLOGY, Journal Indexed in SCI-E, March 2024
TUBITAK Project, 1002 - Quick Support Program, Eskisehir Osmangazi University, Turkey, March 2024
EUROPEAN JOURNAL OF PREVENTIVE CARDIOLOGY, Journal Indexed in SCI-E, February 2024
EUROPEAN JOURNAL OF PREVENTIVE CARDIOLOGY, Journal Indexed in SCI-E, February 2024
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Bursa Uludağ University, Turkey, January 2024
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Firat University, Turkey, January 2024
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Firat University, Turkey, January 2024
TUBITAK Project, 1002 - Quick Support Program, Firat University, Turkey, January 2024
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Istanbul University, Turkey, January 2024
MOLECULAR BIOLOGY REPORTS, Journal Indexed in SCI-E, December 2023
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Canakkale Onsekiz Mart University, Turkey, December 2023
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Ege University, Turkey, December 2023
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Istanbul University, Turkey, December 2023
JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY, Journal Indexed in SCI-E, November 2023
EUROPEAN JOURNAL OF PREVENTIVE CARDIOLOGY, Journal Indexed in SCI-E, October 2023
CIRCULATION: ARRHYTHMIA AND ELECTROPHYSIOLOGY, Journal Indexed in SCI-E, September 2023
TUBITAK Project, 3501 - National Young Researcher Career Development Program, Hacettepe University, Turkey, September 2023
CARDIOVASCULAR DRUGS AND THERAPY, Journal Indexed in SCI-E, August 2023
EUROPEAN JOURNAL OF PREVENTIVE CARDIOLOGY, Journal Indexed in SCI-E, August 2023

CARDIOVASCULAR DRUGS AND THERAPY, Journal Indexed in SCI-E, May 2023
Türkiye Klinikleri Spor Bilimleri Dergisi, National Scientific Refreed Journal, May 2023
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TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Ege University, Turkey, November 2022
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Kütahya Dumlupınar University, Turkey, November 2022
CARDIOVASCULAR DRUGS AND THERAPY, Journal Indexed in SCI-E, October 2022
Türkiye Klinikleri Spor Bilimleri Dergisi, National Scientific Refreed Journal, September 2022
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TUBITAK Project, 1002 - Quick Support Program, Hacettepe University, Turkey, June 2022
Project Supported by Higher Education Institutions, BAP Research Project, Selcuk University, Turkey, June 2022
Türkiye Klinikleri Spor Bilimleri Dergisi, National Scientific Refreed Journal, May 2022
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TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Turkey, May 2022
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Türkiye Klinikleri Spor Bilimleri Dergisi, National Scientific Refreed Journal, December 2021
PAMUKKALE SPOR BİLİMLERİ DERGİSİ, National Scientific Refreed Journal, November 2021
Türkiye Klinikleri Spor Bilimleri Dergisi, National Scientific Refreed Journal, October 2021
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, Journal Indexed in SCI-E, September 2021
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Non Academic Experience

Harvard Medical School

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