

## Asst. Prof. ERTEN AKBEL

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: EKU-7182-2022

Yoksis Researcher ID: 40314

### Education Information

Doctorate, Afyon Kocatepe University, Sağlık Bilimleri Enstitüsü, Veterinerlik Biyokimyası (Dr), Turkey 2004 - 2010

Postgraduate, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (YI) (Tezli), Turkey 1991 - 1994

Undergraduate, Anadolu University, Mühendislik-Mimarlık Fakültesi, Kimya Mühendisliği Bölümü, Turkey 1987 - 1991

### Dissertations

Doctorate, Yüksek protein içeren diyetle beslenen sığırcılara atkestanesi ekstresi (*Aesculus Hippocastanum* L.) verilmesinin kemik ve kalsiyum metabolizmasına etkileri, Afyon Kocatepe University, Sağlık Bilimleri Enstitüsü, Veterinerlik Biyokimyası (Dr), 2010

Postgraduate, Silybum marianum (devedikeni) ekstraksiyonu, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (YI) (Tezli), 1994

### Research Areas

Natural Sciences

### Academic Titles / Tasks

Usak University, Sağlık Yüksekokulu, Fizyoterapi Ve Rehabilitasyon Bölümü, 2012 - Continues

Lecturer, Usak University, Meslek Yüksekokulu, Tekstil, Giyim, Ayakkabı Ve Deri Bölümü, 1994 - 2012

### Academic and Administrative Experience

Usak University, 2020 - Continues

Head of Department, Usak University, 2020 - 2024

### Courses

Biyokimya, Undergraduate, 2022 - 2023, 2021 - 2022

Bitirme Ödevi, Undergraduate, 2022 - 2023  
Temel Kimya, Undergraduate, 2022 - 2023  
İş Sağlığı I, Postgraduate, 2017 - 2018  
İş Sağlığı II, Postgraduate, 2017 - 2018  
Analitik Kimya, Associate Degree, 2015 - 2016

## Jury Memberships

Post Graduate, Post Graduate, Afyon Kocatepe Üniversitesi, July, 2024

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

- I. **Adsorptive removal of anticarcinogen pazopanib from aqueous solutions using activated carbon: isotherm, kinetic and thermodynamic studies**  
Mustafa D., Ibrahim B., Erten A.  
Scientific Reports, vol.14, no.1, 2024 (SCI-Expanded)
- II. **Development, Validation, and Greenness Assessment of Eco-Friendly Analytical Methods for the Determination of Abiraterone Acetate in Pure Form and Pharmaceutical Formulations**  
AKBEL E.  
Separations, vol.11, no.10, 2024 (SCI-Expanded)
- III. **Investigation of protective effect of resveratrol and coenzyme Q10 against cyclophosphamide-induced lipid peroxidation, oxidative stress and DNA damage in rats**  
Akbel E., Kucukkurt I., Ince S., Demirel H. H., Acaroz D. A., Zemheri-Navruz F., Kan F.  
Toxicology Research, vol.13, no.1, 2024 (SCI-Expanded)
- IV. **A GREEN HPLC METHOD FOR THE DETERMINATION OF TORASEMIDE IN PHARMACEUTICAL DOSAGE FORMS: DEVELOPMENT, VALIDATION, AND GREENNESS ASSESSMENT**  
Akbel E., Bulduk İ., Gökçe S.  
Bulletin of the Chemical Society of Ethiopia, vol.38, no.1, pp.11-25, 2024 (SCI-Expanded)
- V. **Development, Optimization, and Validation of HPLC Method for Quantification of Enzalutamide in Bulk and Pharmaceuticals**  
Güngör S., Akbel E., Bulduk İ.  
Pharmaceutical Chemistry Journal, vol.57, no.3, pp.451-459, 2023 (SCI-Expanded)
- VI. **A green HPLC method for the determination of apixaban in pharmaceutical products: Development and validation**  
Akbel E., Bulduk I., Gökçe S.  
Reviews in Analytical Chemistry, vol.42, no.1, 2023 (SCI-Expanded)
- VII. **Potential protective effect of escin from Aesculus hippocastanum extract against cyclophosphamide-induced oxidative stress on rat tissues**  
Küçük Kurt I., Akbel E., Ince S., Acaröz D. A., Demirel H. H., Kan F.  
Toxicology Research, vol.11, no.5, pp.812-818, 2022 (SCI-Expanded)
- VIII. **Screening of Naturally Grown European Cranberrybush (Viburnum opulus L.) Genotypes Based on Physico-Chemical Characteristics**  
Çolak A. M., Mertoğlu K., Alan F., Esatbeyoğlu T., Bulduk İ., Akbel E., Kahramanoğlu I.  
Foods, vol.11, no.11, 2022 (SCI-Expanded)
- IX. **Alternative analytical methods for ibrutinib quantification in pharmaceutical formulation: A statistical comparison**  
Akbel E., Güngör S., Bulduk İ.  
Reviews in Analytical Chemistry, vol.41, no.1, pp.146-157, 2022 (SCI-Expanded)
- X. **A comparative study of HPLC and UV spectrophotometric methods for remdesivir quantification in**

## **pharmaceutical formulations**

Bulduk I., Akbel E.

Journal of Taibah University for Science, vol.15, no.1, pp.507-513, 2021 (SCI-Expanded)

- XI. **The subchronic exposure to malathion, an organophosphate pesticide, causes lipid peroxidation, oxidative stress, and tissue damage in rats: The protective role of resveratrol**  
Akbel E., Arslan-Acaroz D., Demirel H. H., Kucukkurt I., Ince S.  
Toxicology Research, vol.7, no.3, pp.503-512, 2018 (SCI-Expanded)
- XII. **The Effects of Boron on Arsenic-Induced Lipid Peroxidation and Antioxidant Status in Male and Female Rats**  
Kucukkurt I., Ince S., Demirel H. H., Turkmen R., Akbel E., Celik Y.  
Journal of Biochemical and Molecular Toxicology, vol.29, no.12, pp.564-571, 2015 (SCI-Expanded)
- XIII. **The effects of dietary boron compounds in supplemented diet on hormonal activity and some biochemical parameters in rats**  
Kucukkurt I., Akbel E., Karabağ F., Ince S.  
Toxicology and Industrial Health, vol.31, no.3, pp.255-260, 2015 (SCI-Expanded)
- XIV. **Protective effects of boron on cyclophosphamide induced lipid peroxidation and genotoxicity in rats**  
Ince S., Kucukkurt I., Demirel H. H., Acaroz D. A., Akbel E., Cigerci I. H.  
Chemosphere, vol.108, pp.197-204, 2014 (SCI-Expanded)

## **Articles Published in Other Journals**

- I. **Developing Rp-Hplc Method and Determination in Vitro Cytotoxicity of Silymarin Obtained From Silybum marinum Plant**  
AKBEL E., BULDUK İ., KARABAĞ F.  
MAS Uygulamalı Bilimler Dergisi, vol.9, pp.899-906, 2024 (Peer-Reviewed Journal)
- II. **Optimization of Silymarin Extraction Condition from Silybum marianum(L.) Gaertn and Development of HPLC Method for Its Quantification**  
Akbel E., Kara M.  
ISPEC Tarım Bilimleri Dergisi, vol.8, no.1, pp.206-220, 2024 (Peer-Reviewed Journal)
- III. **Investigation of Antioxidant and Histopathological Effects of Aqueous and Ethanol Extracts Obtained from Sideritis akmanii**  
KÜÇÜKKURT I., KAN F., Ince S., DEMİREL H. H., AKBEL E., ARSLAN ACARUZ D.  
Kocatepe Veterinary Journal, vol.16, no.3, pp.383-392, 2023 (Peer-Reviewed Journal)
- IV. **Development and Validation of Analytical Methods for Quantification of L-Dopa; Application to Plant Materials**  
Akbel E., Bulduk I.  
Uluslararası tarım araştırmalarında yenilikçi yaklaşımlar dergisi (Online), vol.7, no.2, pp.208-219, 2023 (Peer-Reviewed Journal)
- V. **Total phenol and flavonoid contents, and antioxidant capacity of Silybum marianum L. Gaertner grown in Turkey**  
Akbel E., Bulduk İ.  
Avrupa Bilim ve Teknoloji Dergisi, no.43, pp.17-20, 2022 (Peer-Reviewed Journal)
- VI. **RP-HPLC Method Development and Validation for Quantification of Fexofenadine in Pharmaceutical Products**  
Akbel E., Bulduk İ.  
Avrupa Bilim ve Teknoloji Dergisi, no.32, pp.1048-1053, 2021 (Peer-Reviewed Journal)
- VII. **A Simple LC-MS/MS Method for Determination of Vemurafenib in Rat Plasma Fed with High Fat Diet**  
ÖZDEMİR A., ŞANLI S., AKBEL E.  
JOURNAL OF PHARMACEUTICAL RESEARCH INTERNATIONAL, vol.33, no.40, pp.261-266, 2021 (ESCI)
- VIII. **Chromatographic Method for Quantification of Tenofovir in Pharmaceutical Formulations:**

### **Comparison with Spectrophotometric Method**

Akbel E., Bulduk İ.

JOURNAL OF PHARMACEUTICAL RESEARCH INTERNATIONAL, no.33, pp.272-280, 2021 (ESCI)

### **IX. Akbel E Karabağ F Saponinler ve Reprodüktif Etkileri**

KARABAĞ ÇOBAN F., AKBEL E.

Turkish Journal of Scientific Reviews, vol.5, no.1, pp.25-29, 2012 (Peer-Reviewed Journal)

## **Books & Book Chapters**

### **I. Beslenme Biyokimyası**

AKBEL E.

in: Biyokimya, AYŞE ÖZDEMİR, Editor, İstanbul Tıp Kitabevi, İstanbul, pp.157-165, 2022

### **II. Vitaminler**

AKBEL E.

in: Biyokimya, AYŞE ÖZDEMİR, Editor, İstanbul Tıp Kitabevi, İstanbul, pp.157-171, 2022

### **III. Temel Makro ve Mikromoleküller**

AKBEL E.

in: Biyokimya, AYŞE ÖZDEMİR, Editor, İstanbul Tıp Kitabevi, İstanbul, pp.148-156, 2022

### **IV. Ekler**

AKBEL E.

in: Fizyoterapistin El Kitabı, FİKRİYE FİGEN AYHAN, Editor, Güneş Tıp Kitabevleri, Ankara, pp.317-343, 2017

### **V. Farmakoloji**

AKBEL E.

in: Fizyoterapistin El Kitabı, FİKRİYE FİGEN AYHAN, Editor, Güneş Tıp Kitabevleri, Ankara, pp.285-316, 2017

## **Refereed Congress / Symposium Publications in Proceedings**

### **I. Developing Rp-Hplc Method And Determination In Vitro Cytotoxicity Of Silymarin Obtained From Silybum Marinum Plant**

AKBEL E., KARABAĞ F., BULDUK İ.

16 th INTERNATIONAL CONFERENCE ON ENGINEERING & NATURAL SCIENCES, Girne, Cyprus (Kkct), 01 June 2024

### **II. Total phenol and flavonoid contents, and antioxidant capacity of Silybum marianum L. Gaertner grown in Turkey**

AKBEL E., BULDUK İ.

4th International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 10 November 2022, pp.461

### **III. Effects of Horse Chestnut Extract (Aesculus Hippocastanum L.) on Bone and Calcium Metabolism in Rats Fed A High Protein Diet**

AKBEL E., ERYAVUZ A.

7th International Congress on Veterinary and Animal Sciences, Turkey, 20 - 22 October 2022, pp.43-60

### **IV. Development and Validation of Analytical Methods for Quantification of L-Dopa; Application to Plant Materials**

AKBEL E., BULDUK İ.

IV. International Agricultural, Biological & Life Science Conference, Edirne, Turkey, 29 August 2022, pp.235

### **V. Malathion ve Oksidatif Stres: Derleme**

AKBEL E., BULDUK İ.

Uluslararası Sağlık Alanları Kongresi 2021 (USAK'21), Uşak, Turkey, 18 September 2021, pp.400-406

### **VI. Potential Protective Effect of Escin against Cyclophosphamid Induced Oxidative Stress on Rat Tissues**

KÜÇÜKKURT İ., İNCE S., AKBEL E., ARSLAN ACARÖZ D., KAN F.

International Congress on Biological and Health Sciences, Turkey, 26 - 28 February 2021, pp.117

**VII. Atkestaninin (Aesculus Hippocastanum L.) Antioksidan Özellikleri: Derleme**

AKBEL E.

International Eurasian Conference on Biotechnology and Biochemistry (BioTechBioChem 2020), Ankara, Turkey, 16 - 18 December 2020

**VIII. Determination Of Plasma Vemurafenib Levels And Development Of LC-MS / MS Method In Rats Fedded With High Fat Diet**

ÖZDEMİR A., ŞANLI S., AKBEL E.

2nd INTERNATIONAL CONGRESS on ANALYTICAL and BIOANALYTICAL CHEMISTRY, Antalya, Turkey, 11 - 14 March 2020, pp.115

**IX. Antioxidant Properties Of Horse-Chestnut Growing in Uşak Region**

AKBEL E., BULDUK İ., ÇOLAK A. M.

II.International Conference on Agriculture, ForestryLife Sciences, 18 - 20 April 2019

**X. Antioxidant Properties of Horse Chestnut Growing in Uşak Region**

AKBEL E., BULDUK İ.

2. International Conference on Agriculture, Forestry Life Sciences, PRAGUE, 18 - 20 April 2019, pp.64

**XI. Ratlarda Diyetteki Bor Bileşiklerinin Hormonal Aktivite ve Bazı Biyokimyasal Parametrelere etkileri**

KÜÇÜKKURT İ., AKBEL E., KARABAĞ ÇOBAN F., İNCE S.

Türk Biyokimya kongresi, Turkey, 3 - 06 September 2013

**XII. Uşak İli Atık Yönetim**

ÜSTÜN ÇETİN S., AKBEL E.

1. ULUSAL GERİ KAZNIM KONGRE VE SERGİSİ, Turkey, 2 - 05 May 2012

**XIII. Uşak Karma Organize Sanayi Bölgesi Arıtma Tesisi'ne Gelen Atık Suların İçerdiği Ağır Metaller ve Organizmadaki Bazı Etkileri**

AKBEL E., ÜSTÜN ÇETİN S.

II. Uşak Sempozyumu, Turkey, 13 - 15 October 2011

## Supported Projects

Bilici E., Bayar İ., Karabağ F., Akkoç S., Ekren Aşıcı G. S., Akbel E., Yaşar Ü., Ulusal H., TUBITAK Project, Temel Hücre Kültürü Uygulamaları ve Moleküler Biyoloji Yöntemleri, 2024 - 2024

Çevik Taşdemir D., Ersoy Z., Demir G., Caner Akın G., Çakır S., Ulukaya F., Erdem Ç., Gökcan A., Arıkan B., Elmaslar Özbaş E., et al., Other International Funding Programs, Interdisciplinary Perspectives on Occupational Safetyand Health, 2022 - 2023

## Metrics

Publication: 41

Citation (WoS): 289

Citation (Scopus): 297

H-Index (WoS): 7

H-Index (Scopus): 5