

Assoc. Prof. ZEYNEP KÖKSAL

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Biyokimya, Turkey 2010 - 2015

Postgraduate, Erzincan Binali Yildirim University, Fen Bilimleri Enstitüsü, Chemistry, Turkey 2008 - 2010

Undergraduate, Gazi University, Fen Fak., Kimya, Turkey 2004 - 2008

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, SÜLFANİLAMİD TÜREVLERİ KULLANILARAK MEMELİ SÜTLERİNDEN LAKTOPEROKSİDAZ ENZİMİNİN SAFLAŞTIRILMASI, Ataturk University, 2015

Postgraduate, DAG ÇAYI (*Sideritis brevibracteata*) BİTKİSİNİN *Caenorhabditis elegans* TERMOTOLERANSI ÜZERİNDEKİ ETKİSİNİN İNCELENMESİ, Erzincan Binali Yildirim University, Fen Bilimleri Enstitüsü, 2010

Research Areas

Chemistry, Biochemistry, Enzyme Kinetics, Natural Sciences

Academic Titles / Tasks

Associate Professor, Istanbul Medeniyet University, Faculty Of Engineering And Natural Sciences , Chemistry , 2022 - Continues

Assistant Professor, Istanbul Medeniyet University, Faculty Of Engineering And Natural Sciences , Chemistry , 2020 - 2022

Research Assistant PhD, Istanbul Medeniyet University, Faculty Of Engineering And Natural Sciences , Chemistry , 2015 - 2020

Research Assistant, Ataturk University, Fen Fakültesi, Kimya, 2012 - 2015

Academic and Administrative Experience

Assistant Director of the Institute, Istanbul Medeniyet University, Faculty Of Engineering And Natural Sciences ,
Chemistry , 2022 - Continues

Deputy Head of Department, Istanbul Medeniyet University, Faculty Of Engineering And Natural Sciences , Chemistry ,
2020 - Continues

Courses

GENEL KİMYA 2, Undergraduate, 2021 - 2022

genel kimya 1, Undergraduate, 2021 - 2022

GENEL KİMYA LAB.-2, Undergraduate, 2018 - 2019

GENEL KİMYA, Undergraduate, 2018 - 2019

Genel Kimya Lab., Undergraduate, 2017 - 2018

Advising Theses

Köksal Z., 2015-2020 Yılları Arasında Göztepe Prof. Dr. Süleyman Yalçın Şehir Hastanesi'ne Başvuran Gıda Zehirlenmesi Vakalarının Retrospektif Araştırılması ve Adli Bilimler Açısından Değerlendirilmesi, Postgraduate, D.ÇEVİRİM(Student),
Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A New Affinity Matrice Synthesized from Aminobenzohydrazide Derivatives for Purification of Lactoperoxidase Enzyme**
Kavaz N. M. , Erel D., Korkmaz I. N. , Gerni S., Abul N., Bayrak S., KÖKSAL Z., KALIN R., ÖZTEKİN A., ÖZDEMİR H.
CHEMISTRYSELECT, vol.7, no.27, 2022 (Peer-Reviewed Journal)
- II. **Molecular docking and inhibition profiles of some antibiotics on lactoperoxidase enzyme purified from bovine milk**
Kalin R., Köksal Z., Usanmaz H., Karaman M., Atasever A., Özdemir H., Gülçin İ.
Journal Of Biomolecular Structure & Dynamics, vol.40, no.1, pp.401-410, 2022 (Peer-Reviewed Journal)
- III. **Spectroscopic and molecular modeling methods to investigate the interaction between psycho-stimulant modafinil and calf thymus DNA using ethidium bromide as a fluorescence probe**
Oğuzcan E., Köksal Z., Taşkın Tok T., Uzgören Baran A., Akbay N.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.1, no.1, pp.1-2, 2021
(Peer-Reviewed Journal)
- IV. **Evaluation of some thiophene-based sulfonamides as potent inhibitors of carbonic anhydrase I and II isoenzymes isolated from human erythrocytes by kinetic and molecular modelling studies.**
Alım Z., Köksal Z., Karaman M.
Pharmacological reports : PR, vol.72, pp.1738-1748, 2020 (Peer-Reviewed Journal)
- V. **Some sulfonamides as aldose reductase inhibitors: therapeutic approach in diabetes**
Demir Y., KÖKSAL Z.
ARCHIVES OF PHYSIOLOGY AND BIOCHEMISTRY, 2020 (Peer-Reviewed Journal)
- VI. **Lactoperoxidase, an antimicrobial enzyme, is inhibited by some indazoles**
Köksal Z., Alım Z.
Drug And Chemical Toxicology, vol.43, pp.21-26, 2020 (Peer-Reviewed Journal)
- VII. **In vitro effects of standard antioxidants on lactoperoxidase enzyme-A molecular docking approach**
Kalin R., KÖKSAL Z., Kalin P., Karaman M., GÜLÇİN İ., ÖZDEMİR H.
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, vol.34, 2020 (Peer-Reviewed Journal)
- VIII. **Lactoperoxidase inhibition of some natural phenolic compounds: Kinetics and molecular docking**

studies

KÖKSAL Z., Kalin R., Kalin P., Karaman M., GÜLÇİN İ., ÖZDEMİR H.

JOURNAL OF FOOD BIOCHEMISTRY, 2019 (Peer-Reviewed Journal)

- IX. **The inhibition effects of some sulfonamides on human serum paraoxonase-1 (hPON1)**
Demir Y., Köksal Z.
Pharmacological Reports, vol.71, no.3, pp.545-549, 2019 (Peer-Reviewed Journal)
- X. **Investigation of the effects of some sulfonamides on acetylcholinesterase and carbonic anhydrase enzymes**
KÖKSAL Z., Alim Z., Bayrak S., GÜLÇİN İ., ÖZDEMİR H.
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, vol.33, no.5, 2019 (Peer-Reviewed Journal)
- XI. **Inhibition effects of selected thiophene-2-sulfonamides on lactoperoxidase**
Köksal Z.
Drug and Chemical Toxicology, 2019 (Peer-Reviewed Journal)
- XII. **Inhibitory effects of selected pesticides on peroxidases purified by affinity chromatography**
KÖKSAL Z., Kalin R., GÜLÇİN İ., ÖZDEMİR H.
INTERNATIONAL JOURNAL OF FOOD PROPERTIES, vol.21, no.1, pp.385-394, 2018 (Peer-Reviewed Journal)
- XIII. **Assessment of the inhibitory effects and molecular docking of some sulfonamides on human serum paraoxonase 1**
alim z., kılıç d., KÖKSAL Z., beydemir ş., ÖZDEMİR H.
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, vol.31, no.10, 2017 (Peer-Reviewed Journal)
- XIV. **The inhibition effects of some natural products on lactoperoxidase purified from bovine milk**
KÖKSAL Z., kalın r., gerni s., GÜLÇİN İ., ÖZDEMİR H.
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, vol.31, no.9, 2017 (Peer-Reviewed Journal)
- XV. **Secondary Sulfonamides as Effective Lactoperoxidase Inhibitors**
KÖKSAL Z., kalın r., camadan y., usanmaz h., almaz z., GÜLÇİN İ., gökçen t., gören a. c. , ÖZDEMİR H.
MOLECULES, vol.22, no.6, 2017 (Peer-Reviewed Journal)
- XVI. **Improved chromatographic method for purification of lactoperoxidase from different milk sources**
Köksal Z., USANMAZ H., Bayrak S., ÖZDEMİR H.
PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY, vol.47, no.2, pp.129-136, 2017 (Peer-Reviewed Journal)
- XVII. **Potent Inhibitory Effects of Some Phenolic Acids on Lactoperoxidase**
KÖKSAL Z., alim z., beydemir ş., özdemir h.
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, vol.30, no.11, pp.533-538, 2016 (Peer-Reviewed Journal)
- XVIII. **Discovery of Potent Carbonic Anhydrase and Acetylcholinesterase Inhibitors: 2-Aminoindan beta-Lactam Derivatives**
Genc H., Kalin R., KÖKSAL Z., Sadeghian N., Kocyigit U. M. , Zengin M., GÜLÇİN İ., Ozdemir H.
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol.17, no.10, 2016 (Peer-Reviewed Journal)
- XIX. **Impact of Some Avermectins on Lactoperoxidase in Bovine Milk**
Köksal Z., Kalin R., GÜLÇİN İ., ÖZDEMİR H., ATASEVER A.
INTERNATIONAL JOURNAL OF FOOD PROPERTIES, vol.19, no.6, pp.1207-1216, 2016 (Peer-Reviewed Journal)
- XX. **Preparation of lactoperoxidase incorporated hybrid nanoflower and its excellent activity and stability**
altınkaynak c., yılmaz i., KÖKSAL Z., özdemir h., öcsoy i., özdemir N.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.84, pp.402-409, 2016 (Peer-Reviewed Journal)
- XXI. **Rosmarinic acid inhibits some metabolic enzymes including glutathione S-transferase, lactoperoxidase, acetylcholinesterase, butyrylcholinesterase and carbonic anhydrase isoenzymes**
GÜLÇİN İ., Scozzafava A., Supuran C. T. , Köksal Z., Turkan F., Cetinkaya S., Bingol Z., Huyut Z., Alwasel S. H.
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.31, no.6, pp.1698-1702, 2016 (Peer-Reviewed Journal)
- XXII. **The effect of caffeic acid phenethyl ester (CAPE) on metabolic enzymes including**

acetylcholinesterase, butyrylcholinesterase, glutathione S-transferase, lactoperoxidase, and carbonic anhydrase isoenzymes I, II, IX, and XII

GÜLÇİN İ., Scozzafava A., Supuran C. T. , Akincioglu H., Koksal Z., Turkan F., Alwasel S.

JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.31, no.6, pp.1095-1101, 2016 (Peer-Reviewed Journal)

XXIII. Investigation of the protective effects of Vitamin C, iron and desferrioxamine on heat stress resistance in the model organism Caenorhabditis elegans

KILIÇGÜN H., OLGUN A., Koksal Z.

AFRICAN JOURNAL OF BIOTECHNOLOGY, vol.10, no.78, pp.18034-18038, 2011 (Peer-Reviewed Journal)

Articles Published in Other Journals

I. Investigation of the Inhibition Effects of Some Antidepressants on Lactoperoxidase Enzyme

Köksal Z., Atasever A.

Journal of the Institute of Science and Technology, vol.11, no.4, pp.2947-2954, 2021 (Peer-Reviewed Journal)

II. Naproxen Derivative Interaction Properties with ct-DNA

Akbay N., Köksal Z., Taşkın Tok T., Uzgören Baran A.

Hacettepe Journal of Biology and Chemistry, vol.47, no.2, pp.177-184, 2019 (Peer-Reviewed Journal)

III. Lactoperoxidase Enzyme Purified from Different Milk Sources: Inhibition Profile of Capsaicin and Pyrogallol

KÖKSAL Z.

İĞDIR ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, vol.8, no.2, pp.159-165, 2018 (Peer-Reviewed Journal)

IV. INHIBITION EFFECTS OF SOME PHENOLIC AND DIMERIC PHENOLIC COMPOUNDS ON BOVINE LACTOPEROXIDASE (LPO) ENZYME

Köksal Z., Usanmaz H., Özdemir H., Gülçin İ., Güney M.

INTERNATIONAL JOURNAL of ACADEMIC RESEARCH, vol.6, pp.27-32, 2014 (Peer-Reviewed Journal)

V. The Effect of Reducing Endoplasmic Reticulum Stress by Tauroursodeoxycholic Acid on Caenorhabditis elegans Lifespan

OLGUN A., KÖKSAL Z., çoban t. a.

HACETTEPE JOURNAL OF BIOLOGY AND CHEMISTRY, vol.38, no.4, pp.287-290, 2010 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. A-AMYLASE / A-GLUCOSIDASE ENZYMES AND THEIR METABOLIC IMPORTANCE

Köksal Z.

III. INTERNATIONAL AGRICULTURAL, BIOLOGICAL & LIFE SCIENCE CONFERENCE, Edirne, Turkey, 1 September - 03 October 2021, pp.13-19

II. Investigation of In Vitro Inhibitory Effects of Some Carnozole and Carnosic Acid Derivatives Bases On Acetylcholinesterase, Butyrylcholinesterase and Carbonic Anhydrase Isoenzymes

Köksal Z.

EJONS 12, Paris, France, 09 July 2021, pp.1-3

Supported Projects

KÖKSAL Z., Project Supported by Higher Education Institutions, Biberiyenin Rosmarinus officinalis bileşenleri olan karnozol ve karnosik asit türevlerinin bazı metabolik enzimler üzerine biyolojik etkilerinin araştırılması, 2020 - 2022

AKBAY N., UZGÖREN BARAN A., KÖKSAL Z., OĞUZCAN E., Project Supported by Higher Education Institutions,

Narkoleptik Uyarıcı Modafinilin ctDNA ile Bağlanma Mekanizmasının Çoklu Spektroskopik Tekniklerle İncelenmesi, 2019

- 2020

KÖKSAL Z., Project Supported by Higher Education Institutions, Inhibitory Effects of Some Sulfonamides on Lactoperoxidase Bazı Sülfonamidlerin Laktoperoksidaz Üzerine İnhibitör Etkisi, 2018 - 2018

KÖKSAL Z., Project Supported by Higher Education Institutions, Bazı Sülfonamid Türevlerinin Sığır Laktoperoksidaz Enzimi Üzerine İnhibisyon Kinetiklerinin Araştırılması, 2017 - 2018

Metrics

Publication: 31

Citation (WoS): 390

Citation (Scopus): 323

H-Index (WoS): 9

H-Index (Scopus): 6

Congress and Symposium Activities

2. International Scientific and Vocational Studies Congress, Attendee, Nevşehir, Turkey, 2018

International Congress on Engineering and Life Science, Attendee, Kastamonu, Turkey, 2018