

Asst. Prof. ZEYNEP KÖKSAL

Personal Information

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Education Information

Doctorate, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Biyokimya, Turkey 2010 - 2015

Undergraduate, Gazi Üniversitesi, 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

Research Areas

Chemistry, Biochemistry, Enzyme Kinetics, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Istanbul Medeniyet University, Faculty of Engineering and Natural Sciences , Chemistry , 2020 - Continues

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

Research Assistant, Atatürk Üniversitesi, Fen Fakültesi, Kimya, 2012 - 2015

Courses

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

GENEL KİMYA, Undergraduate, 2018 - 2019

Genel Kimya Lab., Undergraduate, 2017 - 2018

ORGANİK KİMYA, Undergraduate, 2018 - 2019

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **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, 2020 (Journal Indexed in SCI Expanded)
- 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.2, no.5, pp.12-19, 2020 (Journal Indexed in SCI)
- III. **Some sulfonamides as aldose reductase inhibitors: therapeutic approach in diabetes**
Demir Y., KÖKSAL Z.
ARCHIVES OF PHYSIOLOGY AND BIOCHEMISTRY, 2020 (Journal Indexed in SCI)
- IV. **Lactoperoxidase, an antimicrobial enzyme, is inhibited by some indazoles**
Köksal Z., Alım Z.
Drug And Chemical Toxicology, vol.43, pp.21-26, 2020 (Journal Indexed in SCI)
- V. **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 (Journal Indexed in SCI)
- VI. **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, 2019 (Journal Indexed in SCI)
- VII. **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 (Journal Indexed in SCI)
- VIII. **Investigation of the effects of some sulfonamides on acetylcholinesterase and carbonic anhydrase enzymes**
KÖKSAL Z., Alım Z., Bayrak S., GÜLÇİN İ., ÖZDEMİR H.
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, vol.33, no.5, 2019 (Journal Indexed in SCI)
- IX. **Inhibition effects of selected thiophene-2-sulfonamides on lactoperoxidase**
Köksal Z.
Drug and Chemical Toxicology, 2019 (Journal Indexed in SCI)
- X. **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 (Journal Indexed in SCI)
- XI. **Assessment of the inhibitory effects and molecular docking of some sulfonamides on human serum paraoxonase 1**
alm z., kılıç d., KÖKSAL Z., beydemir ş., ÖZDEMİR H.
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, vol.31, no.10, 2017 (Journal Indexed in SCI)
- XII. **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 (Journal Indexed in SCI)
- XIII. **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 (Journal Indexed in SCI)
- XIV. **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 (Journal Indexed in SCI)
- XV. **Potent Inhibitory Effects of Some Phenolic Acids on Lactoperoxidase**
KÖKSAL Z., alm z., beydemir ş., özdemir h.
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, vol.30, no.11, pp.533-538, 2016 (Journal Indexed in SCI)

- XVI. **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 (Journal Indexed in SCI)
- XVII. **Impact of Some Avermectins on Lactoperoxidase in Bovine Milk**
Koksal Z., Kalin R., GÜLÇİN İ., ÖZDEMİR H., ATASEVER A.
INTERNATIONAL JOURNAL OF FOOD PROPERTIES, vol.19, no.6, pp.1207-1216, 2016 (Journal Indexed in SCI)
- XVIII. **Preparation of lactoperoxidase incorporated hybrid nanoflower and its excellent activity and stability**
altinkaynak c., yilmaz i., KÖKSAL Z., özdemir h., öcsoy i., özdemir N.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.84, pp.402-409, 2016 (Journal Indexed in SCI)
- XIX. **Rosmarinic acid inhibits some metabolic enzymes including glutathione S-transferase, lactoperoxidase, acetylcholinesterase, butyrylcholinesterase and carbonic anhydrase isoenzymes**
GÜLÇİN İ., Scozzafava A., Supuran C. T. , Koksal 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 (Journal Indexed in SCI)
- XX. **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 (Journal Indexed in SCI)
- XXI. **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 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **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 (National Refreed University Journal)
- II. **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 (National Refreed University Journal)
- III. **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 (Refereed Journals of Other Institutions)
- IV. **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 (National Refreed University Journal)

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 - Continues

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 - Continues

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

Edit 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

Citations

Total Citations (WOS):390

h-index (WOS):9