

## **Asst. Prof. ZEYNEP KÖKSAL**

### **Personal Information**

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### **Education Information**

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

Under Graduate, 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, Under Graduate, 2018 - 2019

GENEL KİMYA, Under Graduate, 2018 - 2019

Genel Kimya Lab., Under Graduate, 2017 - 2018

ORGANİK KİMYA, Under Graduate, 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., Kalın 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