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Education Information

Doctorate, Hacettepe University, Tıp Fakültesi, Tıbbi Biyokimya, Turkey 1993 - 1999

Postgraduate, Hacettepe University, Tıp Fakültesi, Tıbbi Biyokimya, Turkey 1989 - 1992

Undergraduate, Hacettepe University, Fen Fakültesi, Biyoloji, Turkey 1981 - 1986

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Hacettepe Üniversitesi Sağlık Bilimleri Enstitüsü, Doktora, İnsan eritrositlerinin in vitro koşullarda tiyol redoks potansiyelini oksidasyona karşı koruma yollarının araştırılması, Hacettepe Üniversitesi, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 1999

Postgraduate, Hacettepe Üniversitesi Sağlık Bilimleri Enstitüsü, Yüksek Lisans, İnsan Plasentasından Glukoz-6-fosfat Dehidrogenazın Saflaştırılması ve Bazı Özelliklerinin Saptanması, Hacettepe Üniversitesi, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 1992

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Biochemistry

Courses

TEMEL VE KLİNİK BİYOKİMYA, Postgraduate, 2017 - 2018, 2016 - 2017

TEMEL VE KLİNİK BİYOKİMYA, Undergraduate, 2017 - 2018, 2016 - 2017

TEMEL VE KLİNİK BİYOKİMYA, Doctorate, 2017 - 2018, 2016 - 2017

- I. **Evaluation of oxidative stress cycle in healthy and inflamed dental pulp tissue: a laboratory investigation**
DOĞAN BUZOĞLU H., Ozcan M., Bozdemir O., Aydin Akkurt K., ZEYBEK N. D., BAYAZIT Y.
Clinical Oral Investigations, vol.27, no.10, pp.5913-5923, 2023 (SCI-Expanded)
- II. **Stem Cell and Oxidative Stress-Inflammation Cycle.**
Buzoglu H., Buruş A., Bayazit Y., Goldberg M.
Current stem cell research & therapy, vol.18, pp.641-652, 2023 (SCI-Expanded)
- III. **Effects of aging and inflammation on catalase activity in human dental pulp.**
ASLANTAŞ E. E., Buzoglu H., MÜFTÜOĞLU S. F., ATILLA P., Karapinar S. P., Aksoy Y.
Archives of oral biology, vol.141, pp.105482, 2022 (SCI-Expanded)
- IV. **Protective Effects of Antioxidant Chlorophyllin in Chemically Induced Breast Cancer Model In vivo**
ÖZCAN M., Aydemir D., Bacanlı M., ANLAR H. G., Ulusu N. N., AKSOY Y.
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.199, no.12, pp.4475-4488, 2021 (SCI-Expanded)
- V. **Improvement in the Current Therapies for Hepatocellular Carcinoma Using a Systems Medicine Approach**
Ozcan M., Altay O., Lam S., TÜRKEZ H., AKSOY Y., Nielsen J., Uhlen M., Boren J., Mardinoglu A.
ADVANCED BIOSYSTEMS, vol.4, no.6, 2020 (SCI-Expanded)
- VI. **Dual actions of the antioxidant chlorophyllin, a glutathione transferase P1-1 inhibitor, in tumorigenesis and tumor progression**
ÖZCAN M., ESENDAĞLI G., Musdal Y., CANPINAR H., BACANLI M., Anlar H. G., Esendagli-Yilmaz G., Beyramzadeh M., AKSOY Y.
JOURNAL OF CELLULAR BIOCHEMISTRY, vol.120, no.5, pp.7045-7055, 2019 (SCI-Expanded)
- VII. **Effects of calcium hydroxide and N-acetylcysteine on MMP-2, MMP-9, TIMP-1 and TIMP-2 in LPS-stimulated macrophage cell lines**
Astantas E. E., AKSOY Y., Ulum Y. Z. A., CEYHAN D., PEYNİRCİOĞLU B., DOĞAN BUZOĞLU H.
Turkish Journal of Biochemistry, vol.43, no.6, pp.571-577, 2018 (SCI-Expanded)
- VIII. **Gingival crevicular fluid levels of human beta-defensin-1 in type 2 diabetes mellitus and periodontitis**
Yilmaz D., ÇAĞLAYAN F., BÜBER E., Kononen E., AKSOY Y., GURSOY U. K., GÜNCÜ G. N.
CLINICAL ORAL INVESTIGATIONS, vol.22, no.5, pp.2135-2140, 2018 (SCI-Expanded)
- IX. **The effect of N-acetylcysteine and calcium hydroxide on TNF-alpha and TGF-beta 1 in lipopolysaccharide-activated macrophages**
Karapinar S. P., ULUM Y. Z. A., ÖZÇELİK B., BUZOĞLU H., Ceyhan D., PEYNİRCİOĞLU B., AKSOY Y.
ARCHIVES OF ORAL BIOLOGY, vol.68, pp.48-54, 2016 (SCI-Expanded)
- X. **Age-related Changes in the Alkaline Phosphatase Activity of Healthy and Inflamed Human Dental Pulp**
ASLANTAŞ E. E., Buzoglu H. D., Karapinar S. P., ÇEHRELİ Z. C., Muftuoglu S. F., ATILLA P., AKSOY Y.
JOURNAL OF ENDODONTICS, vol.42, no.1, pp.131-134, 2016 (SCI-Expanded)
- XI. **Melatonin causes regression of endometriotic implants in rats by modulating angiogenesis, tissue levels of antioxidants and matrix metalloproteinases**
YILMAZ B., Kilic S., Aksakal O., Ertas I. E., Tanrisever G. G., AKSOY Y., Lortlar N., Kelekci S., Gungor T.
ARCHIVES OF GYNECOLOGY AND OBSTETRICS, vol.292, no.1, pp.209-216, 2015 (SCI-Expanded)
- XII. **The clinical features, diagnosis, treatment, and prognosis of neuroinvasive listeriosis: a multinational study**
Arslan F., MEYNET E., Sunbul M., SİPAHİ O. R., KURTARAN B., KAYA S., İNKAYA A. Ç., PAGLIANO P., SENGOZ G., BATIREL A., et al.
EUROPEAN JOURNAL OF CLINICAL MICROBIOLOGY & INFECTIOUS DISEASES, vol.34, no.6, pp.1213-1221, 2015 (SCI-Expanded)
- XIII. **Synthesis and Biological Evaluation of 2-Substituted-5-(4-nitrophenylsulfonamido) benzoxazoles as Human GST P11 Inhibitors, and Description of the Binding Site Features**
Ertan-Bolelli T., MUŞDAL Y., BOLELLİ K., Yilmaz S., AKSOY Y., YILDIZ İ., Aki-Yalcin E., Yalcin I.

CHEMMEDCHEM, vol.9, no.5, pp.984-992, 2014 (SCI-Expanded)

- XIV. **FDA-approved drugs and other compounds tested as inhibitors of human glutathione transferase P1-1**
Musdal Y., Hegazy U. M., AKSOY Y., Mannervik B.
CHEMICO-BIOLOGICAL INTERACTIONS, vol.205, no.1, pp.53-62, 2013 (SCI-Expanded)
- XV. **Inhibition of human glutathione transferase P1-1 by novel benzazole derivatives**
Musdal Y., Ertan-Bolelli T., Bolelli K., Yilmaz S., Ceyhan D., Hegazy U., Mannervik B., AKSOY Y.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.37, no.4, pp.431-436, 2012 (SCI-Expanded)
- XVI. **CD26/dipeptidyl-peptidase IV and adenosine deaminase serum levels in psoriatic patients treated with cyclosporine, etanercept, and psoralen plus ultraviolet A phototherapy**
Yildirim F. E., KARADUMAN A., PINAR A., AKSOY Y.
INTERNATIONAL JOURNAL OF DERMATOLOGY, vol.50, no.8, pp.948-955, 2011 (SCI-Expanded)
- XVII. **The determination of matrix metalloproteinase 9 activity and gene expression levels in Behcet's disease patients with aneurysmal complications**
AKSOY Y., ERCAN A., Dalmizrak O., CANPINAR H., DURMAZLAR S. P. K., BAYAZIT M.
CLINICAL RHEUMATOLOGY, vol.30, no.4, pp.515-519, 2011 (SCI-Expanded)
- XVIII. **Ways for Overcoming Drug Resistance in Cancer: Designing New Drugs: Invited Commentary**
Aksoy Y.
TURKIYE KLINIKLERI TIP BILIMLERI DERGISI, vol.30, no.6, pp.2011-2016, 2010 (SCI-Expanded)
- XIX. **Metformin regresses endometriotic implants in rats by improving implant levels of superoxide dismutase, vascular endothelial growth factor, tissue inhibitor of metalloproteinase-2, and matrix metalloproteinase-9**
Yilmaz B., Sucak A., Kilic S., Aksakal O., AKSOY Y., Lortlar N., SÜT N., Gungor T.
AMERICAN JOURNAL OF OBSTETRICS AND GYNECOLOGY, vol.202, no.4, 2010 (SCI-Expanded)
- XX. **Atorvastatin causes regression of endometriotic implants in a rat model**
Yilmaz B., Ozat M., Kilic S., Gungor T., AKSOY Y., Lordlar N., SÜT N., Aksakal O.
REPRODUCTIVE BIOMEDICINE ONLINE, vol.20, no.2, pp.291-299, 2010 (SCI-Expanded)
- XXI. **Does N-Acetyl Cysteine Protect Against Apoptosis in HL60 Cell Line?**
AKSOY Y., Kesik K., CANPINAR H.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.35, no.4, pp.333-339, 2010 (SCI-Expanded)
- XXII. **The effects of transient systemic hypotension on renal oxidative status, morphology and plasma nitric oxide levels in pregnant rats**
BAYRAK S., PEHLİVANOĞLU B., BALKANCI Z. D., OZYUREK H., AKSOY Y., ATILLA P., Cakar A. N.
JOURNAL OF MATERNAL-FETAL & NEONATAL MEDICINE, vol.22, no.6, pp.528-536, 2009 (SCI-Expanded)
- XXIII. **Possible impact of inflammatory status on C-telopeptide pyridinoline cross-links of Type I collagen and osteocalcin levels around oral implants with peri-implantitis: a controlled clinical trial**
Tuemer C., AKSOY Y., GÜNCÜ G. N., NOHUTCU R. M., Kilinc K., Toezuem T. F.
JOURNAL OF ORAL REHABILITATION, vol.35, no.12, pp.934-939, 2008 (SCI-Expanded)
- XXIV. **Erythrocyte deformability, plasma viscosity and oxidative status in patients with severe obstructive sleep apnea syndrome**
Dikmenoglu N., Ciftci B., Ileri E., Gueven S. F., Seringec N., Aksoy Y., Ercil D.
SLEEP MEDICINE, vol.7, no.3, pp.255-261, 2006 (SCI-Expanded)
- XXV. **Antioxidant enzymes in red blood cells and lymphocytes of ataxia-telangiectasia patients.**
Aksoy Y., Sanal O., Metin A., Tezcan I., Ersoy F., Ogus H., Ozer N.
The Turkish journal of pediatrics, vol.46, no.3, pp.204-7, 2004 (SCI-Expanded)
- XXVI. **Effects of carbon dioxide pneumoretroperitoneum on free radical formation in remote organs and use of verapamil as an antioxidant.**
Guler C., Samli M., Aksoy Y., Demirbas M., Kilinc A., Ellidokuz E., Dincel C.
Journal of endourology, vol.18, no.3, pp.245-9, 2004 (SCI-Expanded)
- XXVII. **Comparison of changes in tissue oxidative-stress markers in experimental model of open, laparoscopic, and retroperitoneoscopic donor nephrectomy**

- Demirbas M., Samli M., Aksoy Y., Guler C., Kilinc A., Dincel C.
JOURNAL OF ENDOUROLOGY, vol.18, no.1, pp.105-108, 2004 (SCI-Expanded)
- XXVIII. **The effect of tert-butylhydroperoxide on the thiol redox status in human erythrocytes and the protective role of glucose and antioxidants**
Aksoy Y., Ogus I., KARTAL ÖZER N.
TURKISH JOURNAL OF CHEMISTRY, vol.27, no.4, pp.433-443, 2003 (SCI-Expanded)
- XXIX. **Purification and some properties of human placental glucose-6-phosphate dehydrogenase**
Aksoy Y., Ogus I., Ozer N.
PROTEIN EXPRESSION AND PURIFICATION, vol.21, no.2, pp.286-292, 2001 (SCI-Expanded)
- XXX. **Kinetic properties of human placental glucose-6-phosphate dehydrogenase**
Ozer N., Aksoy Y., Ogus I.
INTERNATIONAL JOURNAL OF BIOCHEMISTRY & CELL BIOLOGY, vol.33, no.3, pp.221-226, 2001 (SCI-Expanded)
- XXXI. **New sample preparation method for the capillary electrophoretic determination of adenylate energy charge in human erythrocytes.**
Ozer N., Aksoy Y., Ogus I.
Journal of biochemical and biophysical methods, vol.45, no.2, pp.141-6, 2000 (SCI-Expanded)

Articles Published in Other Journals

- I. **EFFECTS OF TRANSIENT HYPOTENSION ON GLUTATHIONE LEVELS AND LIPID PEROXIDATION IN THE LIVER DURING PREGNANCY IN RATS**
PEHLİVANOĞLU B., BAYRAK S., Balkanci D. Z., AKSOY Y.
GAZI MEDICAL JOURNAL, vol.19, no.4, pp.177-180, 2008 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Dual effects of chlorophylline on breast cancer cell proliferation in vivo and in vitro**
ÖZCAN M., Musad Y., ESENDAĞLI G., CANPINAR H., AKSOY Y.
42nd Congress of the Federation-of-European-Biochemical-Societies (FEBS) on From Molecules to Cells and Back, Jerusalem, Israel, 10 - 14 September 2017, vol.284, pp.259
- II. **TRİAZOL TÜREVİ BİLEŞİKLER İLE GLUTATYON S TRANFERAZP1 1 ETKİLEŞİMİNİN KOMPÜTASYONEL OLARAK İNCELENMESİ**
ÖZCAN M., CEYLAN Ş., BÜBER E., AKSOY Y.
TBD Biochemical Days, Turkey, 2 - 05 November 2016, vol.41
- III. **Effect of chlorophylline as an antioxidant molecule on glutathione and related enzymes in breast cancer model**
ÖZCAN M., Beyramzadeh M., ESENDAĞLI G., AKSOY Y.
41st FEBS Congress on Molecular and Systems Biology for a Better Life, Kusadasi, Turkey, 3 - 08 September 2016, vol.283, pp.408
- IV. **İndol Halkası İçeren 1 2 4 Triazol Türevi Bileşiklerinin Glutatyon S Tranferaz P1 1 Enzimiyle Etkileşiminin Kompütasyonel Olarak İncelenmesi**
ÖZCAN M., CEYLAN Ş., BÜBER E., AKSOY Y.
4. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, Turkey, 17 - 20 March 2016
- V. **THE PROTECTIVE ROLE OF CHLOROPHYLLINE Cu COMPLEX ON N METHYL N NITROSOUREA INDUCED BREAST CANCER MODEL**
ÖZCAN M., BÜBER E., CEYHAN D., beyramzadeh m., BACANLI M., ESENDAĞLI G., AKSOY Y.
XXVII. ULUSAL BİYOKİMYA KONGRESİ, 3 - 06 November 2015, vol.40
- VI. **Effects of Calcium Hydroxide and N acetyl cystein on Destruction Enzyme Activity in Inflamed Cells**

ASLANTAŞ E. E., DOĞAN BUZOĞLU H., CEYHAN D., AKSOY Y., AKKAYA ULUM Z. Y., PEYNİRCİOĞLU B.

European Society of Endodontology 17. Biennial Congress, barselona, Spain, 16 - 19 September 2015

- VII. **Catalase Activity in Normal And Inflamed Dental Pulp In Young and Old Individuals**
Ceyhan D., Karapınar P., Demir E., DOĞAN BUZOĞLU H., ÇEHRELİ Z. C., MÜFTÜOĞLU S. F., ATILLA P., AKSOY Y.
Multinational Congress on Microscopy, 23 - 28 August 2015
- VIII. **The protective role of chlorophylline-Cu complex on N-methyl-N-nitrosourea induced breast cancer model in Sprague Dawley Rats: glutathione and DNA damage levels**
ÖZCAN M., BÜBER E., Ceyhan D., BACANLI M., Beyramzadeh M., ESENDAĞLI G., AKSOY Y.
40th Congress of the Federation-of-European-Biochemical-Societies (FEBS) - The Biochemical Basis of Life, Berlin, Germany, 4 - 09 July 2015, vol.282, pp.265
- IX. **Gingival crevicular fluid levels of human betadefensin 1 in periodontitis and type 2 diabetesmellitus**
GÜNCÜ G. N., YILMAZ D., GÜRSOY U. K., KÖNENEN E., AKSOY Y., BÜBER E., ÇAĞLAYAN F.
Europerio, 1 - 05 June 2015
- X. **Gingival Crevicular Fluid Levels of Human Beta Defensin 1 in Periodontitis and Type 2 Diabetes Mellitus**
GÜNCÜ G. N., Yılmaz D., ULVİ KAHRAMAN G., EİJA K., AKSOY Y., ÇAĞLAYAN F.
Europerio 8, Londrina, United Kingdom, 3 - 06 June 2015, vol.42, pp.57
- XI. **Synthesis and biological evaluation of tetrahydrocarbazole derivative compounds as human glutathione s transferase p1 1 inhibitors and docking studies**
özcan m., CEYHAN D., UZGÖREN BARAN A., sarigöl d., CANPINAR H., BÜBER E., AKSOY Y.
XVIII Congress of the Portuguese Biochemical Society, Coimbra, Portugal, 17 - 20 December 2014
- XII. **Computer Aided Molecular Modeling of the Binding Site and GSH Conjugation Features of the New Human GST P1-1 Inhibitors**
YALÇIN İ., ERTAN BOLELLİ T., MUŞDAL Y., BOLELLİ K., YILMAZ S., AKSOY Y., MANNERVİK B., YILDIZ İ., AKI-YALÇIN E.
The 3rd International Conference on Computation for Science and Technology, Balvi, Latvia, 23 - 25 August 2014, pp.6
- XIII. **Hydrazone derivative compounds as a substrate for human glutathione transferase P1 1 kinetics docking and cell culture analysis**
CEYHAN D., Özcan m., SARIGÖL D., UZGÖREN BARAN A., CANPINAR H., BÜBER E., AKSOY Y.
2nd International BAU-Drug Design Symposium, İstanbul, Turkey, 17 - 19 April 2014
- XIV. **Description of the Binding Site Features of Some Fused Heterocycles as New Human GST P1-1 Inhibitors**
YALÇIN İ., ERTAN BOLELLİ T., MUŞDAL Y., BOLELLİ K., YILMAZ S., AKSOY Y., MANNERVİK B., YILDIZ İ., AKI-YALÇIN E.
2nd International BAU-Drug Design Symposium 2014, İstanbul, Turkey, 17 - 19 April 2014, pp.9
- XV. **Molecular Modelling Studies on the Design of Chemotherapeutically Active Heterocyclic Compounds**
AKI-YALÇIN E., TAŞKIN T., YILMAZ S., ERTAN BOLELLİ T., BOLELLİ K., OZTURK O., YILDIZ İ., YALÇIN İ., MUŞDAL Y., AKSOY Y.
Molecular Modelling Studies on the Design of Chemotherapeutically Active Heterocyclic Compounds, İstanbul, Turkey, 21 - 23 March 2013, pp.26
- XVI. **Docking Studies of GST Inhibitory Active 2-Substituted Benzazoles**
AKI-YALÇIN E., TAŞKIN T., MUŞDAL Y., AKSOY Y., YILMAZ S., ERTAN BOLELLİ T., BOLELLİ K., YILDIZ İ., YALÇIN İ.
6th International Symposium on Computational Methods in Toxicology and Pharmacology Integrating Internet Resources, Maribor, Slovenia, 3 - 07 September 2011, pp.15

Supported Projects

BAYAZIT Y., Project Supported by Higher Education Institutions, İnsan Glutatyon S Transferaz P1-1 Spesifik İnhibitör Moleküllerin Bilgisayar Destekli ve Yapı Temelli de novo Tasarımında Veri Analizi, 2017 - 2018

BAYAZIT Y., BAŞTUG T., KUYUCAK S., ÖZCAN M., Project Supported by Higher Education Institutions, İnsan Glutasyon S Transferaz P1-1 Spesifik İnhibitör Moleküllerin Bilgisayar Destekli ve Yapı Temelli de novo Tasarımı, 2015 - 2018

Metrics

Publication: 48

Citation (WoS): 342

Citation (Scopus): 343

H-Index (WoS): 11

H-Index (Scopus): 11