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Eğitim Bilgileri

Doktora, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (Dr), Türkiye 1998 - 2002

Yüksek Lisans, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (Yl) (Tezli), Türkiye 1996 - 1998

Lisans, Van Yüzüncü Yıl Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, Türkiye 1991 - 1995

Yaptığı Tezler

Doktora, Koyun eritrositleri ve göz lensinden glukoz-6-fosfat dehidrogenaz enziminin saflaştırılması, karakterizasyonu, bazı ilaç ve kimyasal maddelerin inhibisyon veya aktivasyon kinetiklerinin incelenmesi, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (Dr), 2002

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Araştırma Alanları

Biyokimya, Bitki Biyokimyası, Biyokimyasal Toksikoloji, Biyomoleküller, Enzimoloji, Gıda Biyokimyası, Metabolizma, Moleküler Biyokimya, Proteomiks, Biyoteknoloji, Moleküler Biyoloji ve Genetik, Kimya, Biyokimya

Akademik İdari Deneyim

Bilecik Şeyh Edebali Üniversitesi, 2020 - Devam Ediyor

Bursa Teknik Üniversitesi, 2016 - 2016

Iğdır Üniversitesi, 2015 - 2016

Atatürk Üniversitesi, 2010 - 2012

Atatürk Üniversitesi, 2010 - 2011

Verdiği Dersler

BİYOKİMYA, Lisans, 2015 - 2016, 2011 - 2012, 2010 - 2011

GENEL KİMYA, Lisans, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010
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Bitki Biyokimyası, Lisans, 2010 - 2011
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Yönetilen Tezler

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BEYDEMİR Ş., Alzheimer tipi demans ve koroner arter hastalarında asetilkolinesteraz gen ekspresyonu ve bazı biyomarker düzeylerinin belirlenmesi ve asetilkolinesteraz enzim aktivitesinin belirlenerek bazı fenolik bileşiklerin bu enzim aktivitesi üzerine in vitro etkilerinin incelenmesi, Doktora, M.İŞİK(Öğrenci), 2015
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BEYDEMİR Ş., Bazı flavonoid ve fenolik bileşiklerin antioksidan kapasitelerinin belirlenmesi ve insan eritrositlerinden saflaştırılan karbonik anhidraz I ve II izoenzimleri üzerine in vitro, rat eritrositleri karbonik anhidraz enzimi üzerine in vivo etkilerinin araştırılması, Doktora, Z.HUYUT(Öğrenci), 2014

ŞÜKRÜ B., Hamsi (*Engraulis encrasicolus*) ve mezgıt (*Merlangius merlangus euxinus*) balıklarının solungaç dokularından karbonik anhidraz enziminin saflaştırılması, karakterizasyonu ve bazı metal iyonlarının enzim aktivitesi üzerine etkilerinin incelenmesi, Yüksek Lisans, N.ARSLAN(Öğrenci), 2013

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ŞÜKRÜ B., Tavuk karaciğerinden sorbitol dehidrogenaz enziminin saflaştırılması ve bazı ağır metallerin enzim aktivitesi üzerine etkilerinin incelenmesi, Yüksek Lisans, M.AKKUŞ(Öğrenci), 2012

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ŞÜKRÜ B., Gökkuşluğu alabalık (*oncorhynchus mykiss*) dokularından karbonik anhidraz enziminin saflaştırılması, karakterizasyonu ve kinetik özelliklerinin incelenmesi, Doktora, H.SÖYÜT(Öğrenci), 2006

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- I. **New naphthoquinone thiazole hybrids as carbonic anhydrase and cholinesterase inhibitors: Synthesis, crystal structure, molecular docking, and acid dissociation constant**
Efeoglu C., Selcuk O., Demir B., ŞAHİN E., Sari H., TÜRKEŞ C., Demir Y., Nural Y., BEYDEMİR Ş.
Journal of Molecular Structure, cilt.1301, 2024 (SCI-Expanded)
- II. **Isolation of phenolic compounds from eco-friendly white bee propolis: Antioxidant, wound-healing, and anti-Alzheimer effects**
Necip A., Demirtaş İ., Tayhan S. E., IŞIK M., Bilgin S., Turan İ. F., İpek Y., BEYDEMİR Ş.
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- III. **The effects of morin and methotrexate on pentose phosphate pathway enzymes and GR/GST/TrxR enzyme activities: An in vivo and in silico study**
ÇAĞLAYAN C., Temel Y., TÜRKEŞ C., Ayna A., Ece A., BEYDEMİR Ş.
Archiv der Pharmazie, cilt.357, sa.2, 2024 (SCI-Expanded)
- IV. **Synthesis, Theoretical, in Silico and in Vitro Biological Evaluation Studies of New Thiosemicarbazones as Enzyme Inhibitors**
Erdoğan M., Serdar Çavuş M., Muğlu H., Yakan H., TÜRKEŞ C., Demir Y., BEYDEMİR Ş.
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- V. **Evaluation of the relationship among gene expressions and enzyme activities with antioxidant role and presenilin 1 expression in Alzheimer's disease**
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- VI. **Synthesis and Characterization of Novel 1,3-Diaryltriazene-Substituted Sulfaguanidine Derivatives as Selective Carbonic Anhydrase Inhibitors: Biological Evaluation, in Silico ADME/T and Molecular Docking Study**
Akocak S., Lolak N., Duran H. E., IŞIK M., TÜRKEŞ C., Durgun M., BEYDEMİR Ş.
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- VIII. **Synthesis and characterization of novel acyl hydrazones derived from vanillin as potential aldose reductase inhibitors**
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- IX. **Discovery of novel benzenesulfonamides incorporating 1,2,3-triazole scaffold as carbonic anhydrase I, II, IX, and XII inhibitors**
Buza A., TÜRKEŞ C., Arslan M., Demir Y., Dincer B., Nixha A. R., BEYDEMİR Ş.
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- X. **A novel series of thiosemicarbazone hybrid scaffolds: Design, synthesis, DFT studies, metabolic enzyme inhibition properties, and molecular docking calculations**
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- XI. **Novel acetic acid derivatives containing quinazolin-4(3H)-one ring: Synthesis, in vitro, and in silico evaluation of potent aldose reductase inhibitors**
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- XII. **Enzyme inhibition, molecular docking, and density functional theory studies of new thiosemicarbazones incorporating the 4-hydroxy-3,5-dimethoxy benzaldehyde motif**
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- XIII. **A new series of hydrazones as small-molecule aldose reductase inhibitors**
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- XIV. **The synthesis, biological evaluation and in silico studies of asymmetric 3,5-diaryl-rhodanines as novel inhibitors of human carbonic anhydrase isoenzymes**
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- XV. **Exploration of Some Bis-Sulfide and Bis-Sulfone Derivatives as Non-Classical Aldose Reductase Inhibitors**
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- XVI. **Recombinant human carbonic anhydrase VII: Purification, characterization, inhibition, and molecular docking studies**
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- XVII. **Exploration of 1,2,3-triazole linked benzenesulfonamide derivatives as isoform selective inhibitors of human carbonic anhydrase**
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- XVIII. **Molecular Docking Studies and the Effect of Fluorophenylthiourea Derivatives on Glutathione-Dependent Enzymes**
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- XX. **Novel beta-lactam substituted benzenesulfonamides: in vitro enzyme inhibition, cytotoxic activity and in silico interactions**
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TÜRKEŞ C., Demir Y., BEYDEMİR Ş.
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- XXII. **N-substituted phthalazine sulfonamide derivatives as non-classical aldose reductase inhibitors**
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- XXIII. **Biological evaluation and in silico study of benzohydrazide derivatives as paraoxonase 1 inhibitors**
Korkmaz I. N., TÜRKEŞ C., Demir Y., Öztekin A., ÖZDEMİR H., BEYDEMİR Ş.
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- XXIV. **Cytotoxic effect, enzyme inhibition, and in silico studies of some novel N-substituted sulfonyl amides incorporating 1,3,4-oxadiazol structural motif**
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- XXV. **Methyl benzoate derivatives: in vitro Paraoxonase 1 inhibition and in silico studies**
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- XXVI. **Design, synthesis, and biological activity of novel dithiocarbamate-methylsulfonyl hybrids as carbonic anhydrase inhibitors**
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- XXVII. **Design, synthesis, and aldose reductase inhibitory effect of some novel carboxylic acid derivatives bearing 2-substituted-6-aryloxo-pyridazinone moiety**
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- XXIX. **In vitro and in silico interactions of antiulcer, glucocorticoids and urological drugs on human carbonic anhydrase I and II isozymes**
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- XXX. **AChE mRNA expression as a possible novel biomarker for the diagnosis of coronary artery disease and Alzheimer's disease, and its association with oxidative stress**
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- XXXI. **Some calcium-channel blockers: kinetic and in silico studies on paraoxonase-I**
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- XXXIII. **Novel inhibitors with sulfamethazine backbone: synthesis and biological study of multi-target cholinesterases and α -glucosidase inhibitors**
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