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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, İstanbul Üniversitesi, Eczacılık Fakültesi, Farmasötik Kimya, Türkiye 2000 - 2005

Yüksek Lisans, İstanbul Üniversitesi, Eczacılık Fakültesi, Farmasötik Kimya, Türkiye 1997 - 2000

Lisans, İstanbul Üniversitesi, Eczacılık Fakültesi, Türkiye 1993 - 1997

Yabancı Diller

İngilizce, B2 Orta Üstü

Yaptığı Tezler

Doktora, N-metilsakkarinin kükürtlü türevlerinin sentezi, yapılarının aydınlatılması ve biyolojik etkilerinin incelenmesi, İstanbul Üniversitesi, Eczacılık Fakültesi, Farmasötik Kimya, 2005

Yüksek Lisans, Primer amin grubu taşıyan bazı ilaç maddelerinin spektrofotometrik miktar tayini, İstanbul Üniversitesi, Eczacılık Fakültesi, Farmasötik Kimya, 2000

Araştırma Alanları

Sağlık Bilimleri, Eczacılık, Meslek Bilimleri, Farmasötik Kimya

Akademik Unvanlar / Görevler

Prof.Dr., İstanbul Üniversitesi, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2016 - Devam Ediyor

Doç.Dr., İstanbul Üniversitesi, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2011 - 2016

Yrd.Doç.Dr., İstanbul Üniversitesi, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2008 - 2011

Araştırma Görevlisi, İstanbul Üniversitesi, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 1997 - 2008

Akademik İdari Deneyim

Fakülte Kurulu Üyesi, İstanbul Üniversitesi, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2023 - Devam Ediyor
Anabilim/Bilim Dalı Başkanı, İstanbul Üniversitesi, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2022 - Devam Ediyor

Verdiği Dersler

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Farmasötik Kimya IV, Lisans, 2016 - 2017, 2012 - 2013
Antikanser ve Antiviral İlaçlar, Doktora, 2016 - 2017
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Organik Kimyada Reaksiyon Mekanizmaları, Doktora, 2016 - 2017
İleri Organik Kimya, Yüksek Lisans, 2012 - 2013
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UV ve IR spektroskopileri ve İlaçlara uygulanması, Yüksek Lisans, 2012 - 2013, 2011 - 2012, 2010 - 2011

Yönetilen Tezler

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SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Novel 2-(hydrazinocarbonyl)-3-phenyl-1H-indole-5-sulfonamide based thiosemicarbazides as potent and selective inhibitors of tumor-associated human carbonic anhydrase IX and XII: Synthesis, cytotoxicity, and molecular modelling studies**
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- II. **Thiosemicarbazone-benzenesulfonamide Derivatives as Human Carbonic Anhydrases Inhibitors: Synthesis, Characterization, and In silico Studies**
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- III. **Dithiocarbamates and dithiocarbonates containing 6-nitrosaccharin scaffold: Synthesis, antimycobacterial activity and in silico target prediction using ensemble docking-based reverse virtual screening**
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- IV. **New Pyridinium Salt Derivatives of 2-(Hydrazinocarbonyl)-3-phenyl-1H-indole-5-sulfonamide as Selective Inhibitors of Tumour-Related Human Carbonic Anhydrase Isoforms IX and XII**
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- V. **Pyridinium derivatives of 3-aminobenzenesulfonamide are nanomolar-potent inhibitors of tumor-expressed carbonic anhydrase isozymes CA IX and CA XII**
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- VI. **Synthesis and antibacterial activity of new hybrid derivatives of 5-sulfamoyl-1H-indole and 4-thiazolidinone groups**
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- VII. **Novel Indole-Based Hydrazones as Potent Inhibitors of the α -class Carbonic Anhydrase from Pathogenic Bacterium *Vibrio cholerae***
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- VIII. **Development of Thiazolidinones as Fungal Carbonic Anhydrase Inhibitors**
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- IX. **Indole-Based Hydrazones Containing A Sulfonamide Moiety as Selective Inhibitors of Tumor-Associated Human Carbonic Anhydrase Isoforms IX and XII**
Demir-Yazici K., Bua S., Akgunes N. M., Akdemir A., Supuran C. T., Guzel-Akdemir O.
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- X. **Novel thiazolidinone-containing compounds, without the well-known sulphonamide zinc-binding group acting as human carbonic anhydrase IX inhibitors**
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- XI. **Isatin analogs as novel inhibitors of *Candida* spp. beta-carbonic anhydrase enzymes**
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- XII. **Discovery of novel isatin-based sulfonamides with potent and selective inhibition of the tumor-associated carbonic anhydrase isoforms IX and XII**
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- XIII. **Structural study of the location of the phenyl tail of benzene sulfonamides and the effect on human carbonic anhydrase inhibition**
Guzel-Akdemir O., Biswas S., Lastra K., McKenna R., Supuran C. T.
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- XIV. **Inhibition of tumor-associated human carbonic anhydrase isozymes IX and XII by a new class of substituted-phenylacetamido aromatic sulfonamides**
AKDEMİR A., Guzel-Akdemir O., Scozzafava A., Capasso C., Supuran C. T.
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- XV. **A Class of Sulfonamides with Strong Inhibitory Action against the α -Carbonic Anhydrase from *Trypanosoma cruzi***
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- XVIII. **Carbonic anhydrase inhibitors. The β -carbonic anhydrases from the fungal pathogens *Cryptococcus neoformans* and *Candida albicans* are strongly inhibited by substituted-phenyl-1H-indole-5-sulfonamides**
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- XIX. **3-Phenyl-1H-Indole-5-Sulfonamides: Structure-Based Drug Design of a Promising Class of Carbonic Anhydrase Inhibitors**
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- XX. **Synthesis and biological evaluation of new 4-thiazolidinone derivatives**
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- XXI. **Carbonic anhydrase inhibitors. Aromatic/heterocyclic sulfonamides incorporating phenacetyl, pyridylacetyl and thienylacetyl tails act as potent inhibitors of human mitochondrial isoforms VA and VB**
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- XXII. **Discovery of Low Nanomolar and Subnanomolar Inhibitors of the Mycobacterial beta-Carbonic Anhydrases Rv1284 and Rv3273**
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- XXIV. **Carbonic anhydrase inhibitors. Phenacetyl-, pyridylacetyl- and thienylacetyl-substituted aromatic sulfonamides act as potent and selective isoform VII inhibitors**
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- XXV. **Carbonic anhydrase inhibitors. The nematode alpha-carbonic anhydrase of Caenorhabditis elegans CAH-4b is highly inhibited by 2-(hydrazinocarbonyl)-3-substituted-phenyl-1H-indole-5-sulfonamides**
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- XXVII. **Crystal Structure of 1,1,3-trioxo-2,3-dihydro-1,2-benzisothiazol-2-ylmethyl 4-phenyl piperazine-1-carbodithioate, C₁₉H₁₉N₃O₃S₃**
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- XXVIII. **Crystal Structure of 1,1,3-trioxo-2,3-dihydro-1,2-benzisothiazol-2-ylmethyl 4-phenyl Piperazine-1-carbodithioate, C₁₉H₁₉N₃O₃S₃.**
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- XXIX. **Carbonic anhydrase inhibitors. Interaction of 2-(hydrazinocarbonyl)-3-phenyl-1H-indole-5-sulfonamide with 12 mammalian isoforms: kinetic and X-ray crystallographic studies**
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- XXX. **Synthesis and antituberculosis activity of 5-methyl/trifluoromethoxy-1H-indole-2,3-dione 3-thiosemicarbazone derivatives**
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- XXXI. **N-(2,6-dimethyl-3-oxo-1-thia-4-azaspiro[4.5]dec-4-yl)-2-hydroxy-2,2-diphenylacetamide**
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- XXXII. **Carbonic anhydrase inhibitors. Synthesis and inhibition studies against mammalian isoforms I – XV**

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- XXXIII. **Synthesis and antituberculosis activity of 5-methyl/trifluoromethoxy-1H-indole-2,3-dione-3-thiosemicarbazone derivatives**
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- XXXIV. **Crystal structure of (1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)methyl O-propyl dithiocarbonate**
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- XXXV. **1,1,3-Trioxo-2,3-dihydro-1,2-benzisothiazol-2-ylmethyl 4-phenylpiperazine-1-carbodithioate**
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Diğer Dergilerde Yayınlanan Makaleler

- I. **Antiviral Properties of 5-Sulfamoyl-1H-Indole-Linked Spirothiazolidinone Derivatives: A Study on Human Parainfluenza Virus-2**
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- II. **Evaluation of some o-benzenedisulfonimido- sulfonamide derivatives as potent antimicrobial agents**
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- III. **Synthesis and potential antitumor activities of mandelic acid linked 2-aryl-1,3-thiazolidin-4-ones**
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Kitap & Kitap Bölümleri

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Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

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- IV. **The Ongoing Quest for Selective hCA IX/XII Inhibitors**
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- V. **Inhibition of the α -class Carbonic Anhydrase from *Vibrio cholera*(VchCA) with Novel Sulfonamido based Hydrozones**
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