Prof. Dr. Özlen GÜZEL AKDEMİR

Kişisel Bilgiler

İş Telefonu: +90 212 455 5700 Dahili: 13440
E-posta: oguzel@istanbul.edu.tr
Web: http://aves.istanbul.edu.tr/oguzel/

Uluslararası Araştırmacı ID'leri
ORCID: 0000-0003-3680-1945
Publons / Web Of Science ResearcherID: M-1068-2015
ScopusID: 14013150400
Yoksis Araştırmacı ID: 165815

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

Organik Moleküllerde Yapı Tayini Uygulamaları, Doktora, 2023 - 2024
Farmasötik Kimya IV, Lisans, 2016 - 2017, 2012 - 2013
Antikanser ve Antiviral İlaçlar, Doktora, 2016 - 2017
Farmasötik Kimya II, Lisans, 2015 - 2016
Organik Kimya, Lisans, 2016 - 2017, 2015 - 2016, 2012 - 2013
Organik Kimyada Reaksiyon Mekanizmaları, Doktora, 2016 - 2017
İleri Organik Kimya, Yüksek Lisans, 2012 - 2013
Bilimsel Araştırma ve Literatür Tarama, Lisans, 2012 - 2013, 2011 - 2012
UV ve IR spektroskopileri ve İlaçlara uygulanması, Yüksek Lisans, 2012 - 2013, 2011 - 2012, 2010 - 2011

Yönetilen Tezler

GÜZEL AKDEMİR Ö., 3-Fenil-5-sülfamoil-1H-indol artığı taşıyan spirotiyazolidinon türevlerinin sentezi, yapı tayini ve biyolojik etkilerinin incelenmesi, Yüksek Lisans, M.Özbek(Öğrenci), 2015

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**
Demir Yazıcı K., Trawally M., Bua S., Öztürk-Civelek D., Akdemir A., Supuran C. T., Güzel Akdemir Ö.
Bioorganic Chemistry, cilt.144, 2024 (SCI-Expanded)

II. **Thiosemicarbazone-benzenesulfonamide Derivatives as Human Carbonic Anhydrases Inhibitors: Synthesis, Characterization, and In silico Studies**
Trawally M., DEMİR YAZICI K., Angeli A., Kaya K., Akdemir A., Supuran C. T., GÜZEL AKDEMİR Ö.
Anti-Cancer Agents in Medicinal Chemistry, cilt.24, sa.9, ss.649-667, 2024 (SCI-Expanded)

III. **Urease inhibitors for the treatment of H. pylori**
GÜZEL AKDEMİR Ö., Akdemir A.
Expert Opinion on Therapeutic Patents, 2024 (SCI-Expanded)

IV. **Dithiocarbamates and dithiocarbonates containing 6-nitrosaccharin scaffold: Synthesis, antimycobacterial activity and in silico target prediction using ensemble docking-based reverse virtual screening**
Trawally M., Demir Yazıcı K., İpek Dingiş-Birgül S., Kaya K., Akdemir A., Güzel Akdemir Ö.
Journal of Molecular Structure, cilt.1277, 2023 (SCI-Expanded)

V. **Mandelic acid-based spirothiazolidinones targeting M. tuberculosis: Synthesis, in vitro and in silico investigations**
Trawally M., Demir-Yazici K., Dingiş Birgül S. İ., Kaya K., Akdemir A., Güzel-Akdemir Ö.
BIOORGANIC CHEMISTRY, cilt.121, 2022 (SCI-Expanded)

VI. **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**
Güzel Akdemir Ö., Demir Yazıcı K., Vullo D., Supuran C. T., Akdemir A.
Anti-Cancer Agents in Medicinal Chemistry, cilt.22, sa.14, ss.2637-2646, 2022 (SCI-Expanded)

VII. **Pyridinium derivatives of 3-aminobenzenesulfonamide are nanomolar-potent inhibitors of tumor-expressed carbonic anhydrase isozymes CA IX and CA XII**
Akocak S., Guzel-Akdemir O., Sanku R. K. K., Russom S. S., Iorga B. I., Supuran C. T., Ilies M. A.
BIOORGANIC CHEMISTRY, cilt.103, 2020 (SCI-Expanded)

VIII. **Synthesis and antibacterial activity of new hybrid derivatives of 5-sulfamoyl-1H-indole and 4-thiazolidinone groups**
Guzel-Akdemir O., Trawally M., Ozbek-Babuc M., Ozbek-Celik B., Ermut G., Ozdemir H.
MONATSHEFTE FUR CHEMIE, cilt.151, ss.1443-1452, 2020 (SCI-Expanded)

IX. **Novel Indole-Based Hydrazones as Potent Inhibitors of the alpha-class Carbonic Anhydrase from Pathogenic Bacterium Vibrio cholerae**
Demir-Yazici K., Guzel-Akdemir Ö., Angeli A., Supuran C. T., Akdemir A.
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, cilt.21, 2020 (SCI-Expanded)

X. **Development of Thiazolidinones as Fungal Carbonic Anhydrase Inhibitors**
Guezel-Akdemir Ö., Carradori S., Grande R., Demir-Yazici K., Angeli A., Supuran C. T., AKDEMİR A.
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, cilt.21, sa.8, 2020 (SCI-Expanded)

XI. **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.
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, cilt.20, 2019 (SCI-Expanded)

XII. **Novel thiazolidinone-containing compounds, without the well-known sulphonamide zinc-binding group acting as human carbonic anhydrase IX inhibitors**
Guzel-Akdemir O., Angeli A., Demir K., Supuran C. T., AKDEMİR A.
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, cilt.33, sa.1, ss.1299-1308, 2018 (SCI-Expanded)

XIII. **Isatin analogs as novel inhibitors of Candida spp. beta-carbonic anhydrase enzymes**
Akdemir A., Guzel-Akdemir O., Karali N. L., Supuran C. T.
BIOORGANIC & MEDICINAL CHEMISTRY, cilt.24, sa.8, ss.1648-1652, 2016 (SCI-Expanded)

XIV. **Discovery of novel isatin-based sulfonamides with potent and selective inhibition of the tumor-associated carbonic anhydrase isoforms IX and XII**
Guzel-Akdemir O., AKDEMİR A., Karali N., Supuran C. T.
ORGANIC & BIOMOLECULAR CHEMISTRY, cilt.13, sa.23, ss.6493-6499, 2015 (SCI-Expanded)

XV. **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.
BIOORGANIC & MEDICINAL CHEMISTRY, cilt.21, sa.21, ss.6674-6680, 2013 (SCI-Expanded)

XVI. **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.
BIOORGANIC & MEDICINAL CHEMISTRY, cilt.21, sa.17, ss.5228-5232, 2013 (SCI-Expanded)

XVII. **A Class of Sulfonamides with Strong Inhibitory Action against the alpha-Carbonic Anhydrase from Trypanosoma cruzi**
Guzel-Akdemir O., AKDEMİR A., Pan P., Vermelho A. B., Parkkila S., Scozzafava A., Capasso C., Supuran C. T.
JOURNAL OF MEDICINAL CHEMISTRY, cilt.56, sa.14, ss.5773-5781, 2013 (SCI-Expanded)

XVIII. **o-Benzenedisulfonimido-sulfonamides are potent inhibitors of the tumor-associated carbonic anhydrase isoforms CA IX and CA XII**
Guzel-Akdemir O., Akdemir A., Işık S., Vullo D., Supuran C. T.
BIOORGANIC & MEDICINAL CHEMISTRY, cilt.21, ss.1386-1391, 2013 (SCI-Expanded)

XIX. **Conformational variability of different sulfonamide inhibitors with thienyl-acetamido moieties attributes to differential binding in the active site of cytosolic human carbonic anhydrase isoforms**
Biswas S., Aggarwal M., GÜZEL Ö., Scozzafava A., McKenna R., Supuran C. T.
BIOORGANIC & MEDICINAL CHEMISTRY, cilt.19, 2011 (SCI-Expanded)

XX. **Carbonic anhydrase inhibitors. The ß-carbonic anhydrases from the fungal pathogens Cryptococcus**

neoformans and Candida albicans are strongly inhibited by substituted-phenyl-1H-indole-5-sulfonamides
GÜZEL Ö., Maresca A., Hall R. A., Scozzafava A., Mastrolorenzo A., Mühlschlegel F. A., Supuran C. T.
BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, cilt.20, ss.2508-2511, 2010 (SCI-Expanded)

XXI. **3-Phenyl-1H-Indole-5-Sulfonamides: Structure-Based Drug Design of a Promising Class of Carbonic Anhydrase Inhibitors**
Guzel O., Innocenti A., Vullo D., Scozzafava A., Supuran C. T.
CURRENT PHARMACEUTICAL DESIGN, cilt.16, sa.29, ss.3317-3326, 2010 (SCI-Expanded)

XXII. **Synthesis and biological evaluation of new 4-thiazolidinone derivatives**
Guzel O., Salman A.
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, cilt.24, sa.4, ss.1015-1023, 2009 (SCI-Expanded)

XXIII. **Carbonic anhydrase inhibitors. Aromatic/heterocyclic sulfonamides incorporating phenacetyl, pyridylacetyl and thienylacetyl tails act as potent inhibitors of human mitochondrial isoforms VA and VB**
Guzel O., Innocenti A., Scozzafava A., Salman A., Supuran C. T.
BIOORGANIC & MEDICINAL CHEMISTRY, cilt.17, sa.14, ss.4894-4899, 2009 (SCI-Expanded)

XXIV. **Discovery of Low Nanomolar and Subnanomolar Inhibitors of the Mycobacterial beta-Carbonic Anhydrases Rv1284 and Rv3273**
Guzel O., Maresca A., Scozzafava A., Salman A., Balaban A. T., Supuran C. T.
JOURNAL OF MEDICINAL CHEMISTRY, cilt.52, sa.13, ss.4063-4067, 2009 (SCI-Expanded)

XXV. **Carbonic anhydrase inhibitors. Aromatic/heterocyclic sulfonamides incorporating phenacetyl, pyridylacetyl and thienylacetyl tails act as potent inhibitors of human mitchondrial isoforms VA and VB**
GÜZEL Ö., Innocenti A., Scozzafava A., Salman A., Supuran C. T.
BIOORGANIC & MEDICINAL CHEMISTRY, cilt.17, ss.4894-4899, 2009 (SCI-Expanded)

XXVI. **Carbonic anhydrase inhibitors. Phenacetyl-, pyridylacetyl- and thienylacetyl-substituted aromatic sulfonamides act as potent and selective isoform VII inhibitors**
GÜZEL Ö., Innocenti A., Scozzafava A., Salman A., Supuran C. T.
BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, cilt.19, ss.3170-3173, 2009 (SCI-Expanded)

XXVII. **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**
Guzel O., Innocenti A., Hall R. A., Scozzafava A., Muhlschlegel F. A., Supuran C. T.
BIOORGANIC & MEDICINAL CHEMISTRY, cilt.17, sa.8, ss.3212-3215, 2009 (SCI-Expanded)

XXVIII. **Carbonic anhydrase inhibitors. Synthesis of 2,4,6-trimethylpyridinium derivatives of 2-(hydrazinocarbonyl)-3-aryl-1H-indole-5-sulfonamides acting as potent inhibitors of the tumor-associated isoform IX and XII**
GÜZEL Ö., Maresca A., Scozzafava A., Salman A., Balaban A. T., Supuran C. T.
BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, cilt.19, ss.2931-2934, 2009 (SCI-Expanded)

XXIX. **Crystal Structure of 1,1,3-trioxo-2,3-dihydro-1,2-benzisothiazol-2-ylmethyl 4-phenyl Piperazine-1-carbodithioate, C19H19N3O3S3.**
AKKURT M., Yalcin S. P., Guzel O., Salman A., BÜYÜKGÜNGÖR O.
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, cilt.65, 2009 (SCI-Expanded)

XXX. **Carbonic anhydrase inhibitors. Interaction of 2-(hydrazinocarbonyl)-3-phenyl-1H-indole-5-sulfonamide with 12 mammalian isoforms: kinetic and X-ray crystallographic studies**
GÜZEL Ö., Temperini C., Innocenti A., Scozzafava A., Salman A., Supuran C. T.
BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, cilt.18, ss.152-158, 2008 (SCI-Expanded)

XXXI. **Synthesis and antituberculosis activity of 5-methyl/trifluoromethoxy-1H-indole-2,3-dione 3-thiosemicarbazone derivatives**
Guzel O., Karali N., Salman A.
BIOORGANIC & MEDICINAL CHEMISTRY, cilt.16, sa.19, ss.8976-8987, 2008 (SCI-Expanded)

XXXII. **N-(2,6-dimethyl-3-oxo-1-thia-4-azaspiro[4.5]dec-4-yl)-2-hydroxy-2,2-diphenylacetamide**

Yalcin S. P., AKKURT M., ŞAHİN E., Guzel O., Salman A., Ihan E.
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, cilt.64, 2008 (SCI-Expanded)

XXXIII. **Carbonic anhydrase inhibitors. Synthesis and inhibition studies against mammalian isoforms I – XV with a series of 2-(hydrazinocarbonyl)-3-substituted-phenyl-1H-indole-5-sulfonamides**
GÜZEL Ö., Innocenti A., Scozzafava A., Salman A., Parkkila S., Hilvo M., Supuran C. T.
BIOORGANIC & MEDICINAL CHEMISTRY, cilt.16, ss.9113-9120, 2008 (SCI-Expanded)

XXXIV. **Synthesis and antituberculosis activity of 5-methyl/trifluoromethoxy-1H-indole-2,3-dione-3-thiosemicarbazone derivatives**
GÜZEL Ö., Karalı N., Salman A.
BIOORGANIC & MEDICINAL CHEMISTRY, cilt.16, ss.8976-8987, 2008 (SCI-Expanded)

XXXV. **Crystal structure of (1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)methyl O-propyl dithiocarbonate**
Akkurt M., Yalçın Ş. P., Büyükgüngör O., GÜZEL Ö., Salman A.
ANALYTICAL SCIENCES, cilt.24, 2008 (SCI-Expanded)

XXXVI. **1,1,3-Trioxo-2,3-dihydro-1,2-benzisothiazol-2-ylmethyl 4-phenylpiperazine-1-carbodithioate**
Akkurt M., Yalçın Ş. P., GÜZEL Ö., Salman A., Büyükgüngör O.
Acta Crystallographica, cilt.E63, 2007 (SCI-Expanded)

XXXVII. **N-(2,6-dimethyl-3-oxo-1-thia-4-azaspiro[4.5]dec-4-yl)-2-hydroxy-2,2-diphenylacetamide**
Yalçın Ş. P., Akkurt M., Şahin E., GÜZEL Ö., Salman A., İlhan E.
Acta Crystallographica, cilt.E64, 2007 (SCI-Expanded)

XXXVIII. **O-Butyl S-(1,1,3-trioksobenz[d]isothiazol-2-yl)methyl dithiocarbonate**
Akkurt M., Karaca S., Şahin E., GÜZEL Ö., Salman A.
Acta Crystallographica, cilt.E63, 2007 (SCI-Expanded)

XXXIX. **2-Hydroxy-N-(3-oxo-1-thia-4-azaspiro[4.5]dec-4-yl)-2,2-diphenylacetamide.**
Akkurt M., Karaca S., Şahin E., GÜZEL Ö., Salman A., İlhan E.
Acta Crystallographica, cilt.E63, 2007 (SCI-Expanded)

XL. **Synthesis, antimycobacterial and antitumor activities of new (1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)methyl N,N-disubstituted dithiocarbamate/O-alkyldithiocarbonate derivatives**
Guzel O., Salman A.
BIOORGANIC & MEDICINAL CHEMISTRY, cilt.14, sa.23, ss.7804-7815, 2006 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

I. **Role of human carbonic anhydrase isoforms VA and VB in obesity: Implications, mechanisms, and therapeutic prospects**
Kaçmaz M., Trawally M., GÜZEL AKDEMİR Ö.
Journal of Research in Pharmacy, cilt.28, sa.3, ss.733-748, 2024 (ESCI)

II. **Antiviral Properties of 5-Sulfamoyl-1H-Indole-Linked Spirothiazolidinone Derivatives: A Study on Human Parainfluenza Virus-2**
Trawally M., YILMAZ F. N., ÖZBEK ÇELİK B., Akdemir A., GÜZEL AKDEMİR Ö.
Journal of Research in Pharmacy, cilt.28, sa.1, ss.213-224, 2024 (ESCI)

III. **Evaluation of some o-benzenedisulfonimido– sulfonamide derivatives as potent antimicrobial agents**
Demir Yazıcı K., Yılmaz F. N., Özbek Çelik B., Güzel Akdemir Ö.
Istanbul Journal of Pharmacy, cilt.52, sa.3, ss.297-301, 2022 (Hakemli Dergi)

IV. **Synthesis and potential antitumor activities of mandelic acid linked 2-aryl-1,3-thiazolidin-4-ones**
Demir-Yazici K., Guzel-Akdemir O.
JOURNAL OF RESEARCH IN PHARMACY, cilt.26, sa.4, ss.931-940, 2022 (ESCI)

V. **Benzilic acid based new 2-aryl-1,3-thiazolidin-4-one derivatives: Synthesis and anticancer activity**
Güzel Akdemir Ö., Demir-Yazıcı K.
JOURNAL OF RESEARCH IN PHARMACY, cilt.25, sa.3, ss.305-317, 2021 (ESCI)

VI. **Evaluation of new 2-hydroxy-N-(4-oxo-2-substituted phenyl-1,3-thiazolidin-3-yl)-2-phenylacetamide derivatives as potential antimycobacterial agents**
GÜZEL AKDEMİR Ö., DEMİR YAZICI K., TRAWALLY M., DİNGİŞ BİRGÜL S. İ., Akdemir A.
Organic Communications, cilt.13, sa.2, ss.33-50, 2020 (ESCI)

VII. **Antimicrobial and antiviral activity of spiroindolinones bearing benzothiazolines moiety**
Güzel Ö., Karalı N. L., Ermut G., Birteksöz Tan A. S.
ISTANBUL JOURNAL OF PHARMACY , cilt.43, sa.1, ss.1-11, 2013 (ESCI)

VIII. **Spectrophotometric determination of drugs having primary amine group with p-dimethylaminocinnamaldehyde**
GÜZEL Ö., Salman A.
TURKİSH JOURNAL OF PHARMACEUTİCAL SCİENCES, cilt.4(1), ss.31-39, 2007 (Scopus)

Kitap & Kitap Bölümleri

I. **Aromatase**
GÜZEL AKDEMİR Ö.
Metalloenzymes, Claudiu T. Supuran, William A. Donald, Editör, Academic Press is an imprint of Elsevier, ss.459-464, 2023

II. **Piperine Derivatives: New Trends in Medicinal Chemistry**
Trifan A., GÜZEL AKDEMİR Ö., CARRADORİ S.
Medicinal Chemistry Lessons From Nature (Volume 3) Alkaloids and Other Nitrogen-Containing Derivatives, Simone Carradori, Editör, Bentham Science Publishers Pte. Ltd. 80 Robinson Road #02-00, Singapore 068898, Singapore2023, ss.100-127, 2023

III. **İlaç Tasarımı: hedef protein ile etkileşim optimizasyonu**
GÜZEL AKDEMİR Ö., AKDEMİR A.
Medisinal Kimya Giriş, Prof.Dr. Özekin Algül, Editör, Ankara Nobel Tıp Kitapevi, Ankara, ss.223-255, 2021

IV. **Antibakteriyel Sülfa İlaçları**
GÜZEL AKDEMİR Ö.
Medisinal Kimya, Mehmet Alp, Editör, Akademisyen Kitabevi, Ankara, ss.244-264, 2021

V. **Foye Medisinal Kimya Temel İlkeler**
GÜZEL AKDEMİR Ö., AKDEMİR A.
Ankara Nobel, 2019

VI. **Antipsikotik ve Anksiyolitik İlaçlar**
Güzel Akdemir Ö., Akdemir A.
Foye Medisinal Kimya Temel İlkeleri, Öztekin Algül,Kayhan Bolelli, Editör, Nobel Yayın Dağıtım, Ankara, ss.96-113, 2019

VII. **The Structure, Physiological Role, and Potential Medicinal Applications of Carbonic Anhydrase V**
AKDEMİR A., GÜZEL AKDEMİR Ö.
Carbonic Anhydrases as Biocatalysts from Theory to Medical and Industrial Applications, Supuran Claudiu, Simone Giuseppina, Editör, Radarweg 29, PO Box 211, 1000 AE Amsterdam, The NetherlandsThe Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, UK225 Wyman Street, Waltham, MA 02451, USA, ss.125-139, 2015

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. **SYNTHESIS AND HUMAN CARBONIC ANHYDRASE INHIBITION STUDIES OF SOME 1,3,4-THIADIAZOLES**
Demir Yazıcı K., Güzel Akdemir Ö.
13th International Symposium on Pharmaceutical Sciences (ISOPS), Ankara, Türkiye, 22 - 25 Haziran 2021, ss.309

II. **NOVEL THIOSEMICARBAZONES-BASED BENZENESULFONAMIDE hCAII INHIBITORS: SYNTHESIS, BIOLOGICAL EVALUATION AND DOCKING STUDIES**

Trawally M., Demir Yazıcı K., Güzel Akdemir Ö., Akdemir A.
3rd INTERNATIONAL AFRICAN CONFERENCE ON CURRENT STUDIES, 27 Şubat - 28 Ağustos 2021, ss.718

III. **Inhibition of the α-class Carbonic Anhydrase from Vibrio cholera(VchCA) with Novel Sulfonamido based Hydrozones**
Güzel Akdemir Ö., Demir Yazıcı K.
8th Interntional Drug Chemistry Conference, Antalya, Türkiye, 27 Şubat - 01 Mart 2020, ss.69

IV. **The Ongoing Quest for Selective hCA IX/XII Inhibitors**
Güzel Akdemir Ö., Trawally M., Demir Yazıcı K., Akdemir A., Angeli A., Supuran C. T.
8th Internation Drug Chemistry Conference, Antalya, Türkiye, 27 Şubat - 01 Mart 2020, ss.307

V. **Synthesis and Inhibitory Activity of 2-(alkylidene/arylidene)-N-(2-(non) substituted-3/4-sulfamoylphenyl)hydrazine-1-carbothioamide Derivatives Tumor-Associated Carbonic Anhydrase hCA IX and hCA XII Inhibitors**
Trawally M., Demir Yazıcı K., Güzel Akdemir Ö.
8th Internation Drug Chemistry Conference, Antalya, Türkiye, 27 Şubat - 01 Mart 2020, ss.235

VI. **New Sulfonamidoindole Based Hydrazones as Potent and Selective Inhibitors of Tumour-Related Human Carbonic Anhydrase IX and XII Isoforms**
DEMİR YAZICI K., Bua S., Akdemir A., Supuran C., GÜZEL AKDEMİR Ö.
4th Satellite International Meeting on Carbonic Anhydrase, Parma, İtalya, 14 - 17 Kasım 2019, cilt.1, sa.1, ss.11

VII. **Design and synthesis of novel indole based hydrazones containing sulfonamide moiety as selective inhibitors of tumour-associated carbonic anhydrase isoforms IX and XII**
DEMİR YAZICI K., Bua S., Akdemir A., Supuran C., GÜZEL AKDEMİR Ö.
4th Satellite International Meeting on Carbonic Anhydrase, Parma, İtalya, 14 - 17 Kasım 2019, cilt.1, sa.1, ss.10

VIII. **Tiyazolidinon iskeleti taşıyan bazı yeni bileşiklerin sentezi, yapılarının aydınlatılması ve antikanser aktivitelerinin incelenmesi**
DEMİR YAZICI K., GÜZEL AKDEMİR Ö.
2. Ulusal Marmara Eczacılık Kongresi (UMEK-2018), İstanbul, Türkiye, 14 - 16 Kasım 2018, ss.111

IX. **Molecular modelling studies to guide synthesis programs of new thiourea compounds as putative inhibitors of hCA IX/XII and VcCA**
Demir K., GÜZEL AKDEMİR Ö., KARALI N. L., AKDEMİR A.
3rd Satellite Meeting on Carbonic Anhydrase, 24 - 27 Mayıs 2017, ss.62

X. **Structurally novel thiazolidinone-containing compounds that do not contain sulfonamide groups display antifungal activity**
GÜZEL AKDEMİR Ö., Carradori S., Rivanera D., Çapan G., Akdemir A.
3rd Satellite Meeting on Carbonic Anhydrase, Montecatini Terme, İtalya, 24 - 27 Mayıs 2017, ss.69

XI. **Molecular modelling studies to guide synthesis programs of new thiourea compounds as putative inhibitors of hCA IX/XII and VcCA.**
DEMİR K., Güzel Akdemir Ö., Karalı N., Akdemir A.
3rd Satellite Meeting on Carbonic Anhydrase, Montecatini Terme, İtalya, 24 - 27 Mayıs 2017, ss.68

XII. **1H-indole-2,3-dione 3-[N-(4-sulfamoylphenyl)thiosemicarbazone] derivatives as putative anticancer and antifungal agents**
Akdemir A., KARALI N. L., Supuran C. T., GÜZEL AKDEMİR Ö.
7th European Congress of Pharmacology EPHAR 2016, İstanbul, Türkiye, 27 - 30 Haziran 2016, ss.1

XIII. **Substituted-phenylacetamido aromatic sulfonamides are potent inhibitors of human and Trypanosoma cruzi carbonic anhydrases**
GÜZEL AKDEMİR Ö., Akdemir A., Pan P., Vermelho A. B., Parkkila S., Scozzafava A., Capasso C., Supuran C.
10th International Carbonic Anhydrase Conference, Maastricht, Hollanda, 20 - 22 Nisan 2015, ss.48

XIV. **Potent Inhibitors of Mitochondrial Carbonic Anhydrase Isozyme CA-VA and CA-VB and brain associated isozyme CA-VII**
Akdemir A., GÜZEL Ö., Supuran C.
9th International Conference on the Carbonic Anhydrases, Antalya, Türkiye, 11 - 15 Nisan 2012, ss.67

XV. **Pyridinium Derivatives of 3-Aminobenzensulfonamide-Structure-Activity Relationship as Carbonic**

Anhydrase Inhibitors
Akocak S., GÜZEL Ö., Supuran C., Ilies M. A.
9th International Conference on the Carbonic Anhydrases, Antalya, Türkiye, 11 - 15 Nisan 2012, ss.84

XVI. **5-triflorometoksi-1H-İndol-2,3-Dion 3-Tiyosemikarbazon Türevlerinin Miyeloid, Lenfoid Lösemi Hücreleri ve Akut Lenfoblastik Lösemi Hastalarının Periferik Kan Mononuklear Hücreleri Üzerine Sitotoksik Etkileri.**
Çetin M. B., Karadenizli S., Kuruca D. S., Karalı N. L., Güzel Akdemir Ö., Akgün Dar K., Gürel E.
III. Multidisipliner Kanser Araştırma Sempozyumu Teorik Metot Çalıştayı, Bursa, Türkiye, 14 - 17 Mart 2010, ss.40

XVII. **Carbonic anhydrase inhibitors. The nematode ?-carbonic anhydrase of Caenorhabditis elegans CAH-4b is highly inhibited by 2-(hydrazinocarbonyl)-3-substituted-phenyl-1H-indole-5-sulfonamides**
GÜZEL Ö., Innocenti A., Hall R. A., Scozzafava A., Mühlschlegel F. A., Supuran C.
8th International Conference on the Carbonic Anhydrases, Floransa, İtalya, 16 - 19 Eylül 2009, ss.43

XVIII. **Synthesis and biological evaluation of new 6-nitrosaccharin derivatives**
GÜZEL Ö., Salman A.
9th International Symposium on Pharmaceutical Sciences (ISOPS), Ankara, Türkiye, 23 - 26 Haziran 2009, ss.190

XIX. **Discovery of low nanomolar and subnanomolar inhibitors of the mycobacterial ?-carbonic anhydrases Rv1284 and Rv3273**
GÜZEL Ö., Maresca A., Scozzafava A., Salman A., Balaban A. T., Supuran C.
9th International Symposium on Pharmaceutical Sciences (ISOPS), Ankara, Türkiye, 23 - 26 Haziran 2009, ss.188

XX. **Synthesis and antimycobacterial activity of new 4-thiazolidinone derivatives**
GÜZEL AKDEMİR Ö., Salman A., ÇAPAN G.
3rd International Meeting on Medicinal and Pharmaceutical Chemistry, Antalya, Türkiye, 16 - 21 Ekim 2007, ss.1

XXI. **Synthesis of new 4-thiazolidinone derivatives as potential antimycobacterial and antitumor agents**
GÜZEL Ö., Salman A.
3rd International Meeting on Medicinal and Pharmaceutical Chemistry (IMMPC-3), Antalya, Türkiye, 16 - 21 Ekim 2007, ss.70

XXII. **Synthesis antimycobacterial and antitumor activities of new5-bromo-N-(3-oxo-1-thia-4-azaspiro[4.4]non-4-yl)/N-(3-oxo-1-thia-4-azaspiro[4.5]dec-4-yl)-3-phenyl-1H-indole-2-carboxamide derivatives**
GÜZEL AKDEMİR Ö., ÇAPAN G., Salman A.
5 th International Symposium on Pharmaceutical Chemistry, İstanbul, Türkiye, 5 - 07 Eylül 2007, ss.57

XXIII. **Synthesis, characterization and antituberculosis activity of spiroindolinones**
Karalı N., GÜZEL Ö., Salman A.
5th International symposium on Pharmaceutical Chemistry, İstanbul, Türkiye, 5 - 07 Eylül 2007, ss.80

XXIV. **Characterization and Antituberculosis Activity of Spiroindolinones**
KARALI N. L., GÜZEL Ö., Salman A.
5th International Symposium on Pharmaceutical Chemistry, İstanbul, Türkiye, 5 - 07 Eylül 2007, ss.1

XXV. **One-pot synthesis synthesis of novel substituted 4-(3,4-dimethoxyphenyl)ethyl-1-thia-4-azaspiro[4.5]decan-3-ones**
GÜZEL Ö., Terzioğlu N., Gürsoy A.
3rd International Conference on Multi-Component Reactions and Related Chemistry, Amsterdam, Hollanda, 9 - 13 Temmuz 2006, ss.87

XXVI. **One-pot synthesis of novel substituted 4-morpholinoethyl-1-thia-4-azaspiro[4.5]decan-3-one**
Terzioğlu N., GÜZEL Ö., Gürsoy A.
3rd International Conference on Multi-Component Reactions and Related Chemistry, Amsterdam, Hollanda, 9 - 13 Temmuz 2006, ss.129

XXVII. **New 2-hydroxy-N-(4-oxo-2-substituted phenyl-1,3-thiazolidin-3-yl)-2-phenylacetamide derivatives: synthesis and antimicrobial evaluation**
GÜZEL Ö., Salman A., Terzioğlu N., Çapan G.
2ND International Meeting on Medicinal and Pharmaceutical Chemistry IMMPC-2, Antalya, Türkiye, 10 Ekim 2004 - 14 Ekim 2002, ss.141

XXVIII. **New 2-hydroxy-N-(4-oxo-2-substitutedphenyl-1,3-thiazolidine-3-yl-2-phenylacetamide derivatives:Synthesis and antimicrobial evaluation**
GÜZEL AKDEMİR Ö., Terzioğlu N., Salman A., ÇAPAN G.
2nd International Meeting on Medicinal and Pharmaceutical Chemistry, Antalya, Türkiye, 10 - 14 Ekim 2004, ss.141

XXIX. **Synthesis and antimicrobial evaluation of new 2-hydroxy-N-(4-oxo-2-substituted phenyl-1,3-thiazolidine-3-yl)-2-phenylacetamide derivatives**
GÜZEL AKDEMİR Ö., Salman A., ÇAPAN G.
4th International Symposium on Pharmaceutical Chemistry, İstanbul, Türkiye, 17 - 19 Eylül 2003, ss.169

XXX. **Synthesis and antimicrobial evaluation of new 2-hydroxy-N-(4-oxo-2-substituted phenyl-1,3-thiazolidin-3-yl)-2-phenylacetamide derivatives**
GÜZEL Ö., Salman A., Çapan G.
4th International Symposium on Pharmaceutical Chemistry, İstanbul, Türkiye, 17 Eylül 2003 - 19 Eylül 2002, ss.169-170

XXXI. **Spectrophotometric determination of some drugs incorporating primary amino functions**
GÜZEL Ö., Salman A.
1st International Meeting on Medicinal and Pharmaceutical Chemistry IMMPC-1, Ankara, Türkiye, 25 - 28 Eylül 2002, ss.78

XXXII. **Synthesis and antimycobacterial activity of new 2-hydroxy-N-(3-oxo-1-thia-4-azaspiro[4.4]non-4-yl)/(3-oxo-1-thia-4-azaspiro[4.5]dec-4-yl)-2-phenyl-acetamide derivatives**
GÜZEL Ö., Çapan G., İlhan E., Salman A.
1st International Meeting on Medicinal and Pharmaceutical Chemistry IMMPC-1, Ankara, Türkiye, 25 - 28 Eylül 2002, ss.79

XXXIII. **Synthesis and antimicrobial evaluation of new 2-hydroxy-N-(3-oxo-1-thia-4-azaspiro[4.4]non-4yl)/(3-oxo-1-thia-4-azaspiro[4.5]dec-4-yl)-2-phenylacetamide derivatives**
GÜZEL AKDEMİR Ö., ÇAPAN G., İlhan E., Salman A.
1st International Meeting on Medicinal and Pharmaceutical Chemistry, Ankara, Türkiye, 25 - 28 Eylül 2002, ss.79

Desteklenen Projeler

GÜZEL AKDEMİR Ö., DİNCEL E. D., Yükseköğretim Kurumları Destekli Proje, LC MS ve Distile Su Cihazı Onarımı Kapsamında Farmasötik Kimya Araştırma Laboratuvarı Altyapısı Sürekliliği Desteği, 2024 - 2024

GÜZEL AKDEMİR Ö., DEMİR YAZICI K., AKDEMİR A., Yükseköğretim Kurumları Destekli Proje, İnsan Karbonik Anhidraz hCA IX ve XII Enzim İnhibisyonu Gösterebilecek 3-Fenil-5-Sülfamoil-1H-İndol Artığı Taşıyan Yeni Moleküller Üzerine Çalışmalar, 2018 - 2023

GÜZEL AKDEMİR Ö., DEMİR YAZICI K., AKDEMİR A., Yükseköğretim Kurumları Destekli Proje, Sülfonamid grubu içeren yeni moleküllerin moleküler modellemesi, sentezi, yapı tayini ve karbonik anhidraz enzim inhibisyonlarının incelenmesi, 2019 - 2021

GÜZEL AKDEMİR Ö., KARALI N. L., DEMİR K., Yükseköğretim Kurumları Destekli Proje, Sülfonamid grubu içeren yeni tiyoüre türevlerinin sentezi ve yapı tayini, 2016 - 2018

GÜZEL AKDEMİR Ö., AKDEMİR A., KARALI N. L., DEMİR K., Yükseköğretim Kurumları Destekli Proje, Molecular modelling studies to guide synthesis programs of new thiourea compounds as putative inhibitors of hCA IX/XII and VcCA, 2017 - 2017

GÜZEL AKDEMİR Ö., Yükseköğretim Kurumları Destekli Proje, 3-Fenil-5-Sülfamoil-1H-İndol Artığı Taşıyan Spirotiyazolidinon Türevlerinin Sentezi, Yapı Tayini ve Biyolojik Etkilerinin İncelenmesi, 2012 - 2016

GÜZEL AKDEMİR Ö., Yükseköğretim Kurumları Destekli Proje, Substituted-phenylacetamido aromatic sulfonamides are potent inhibitors of human and Trypanosoma cruzi carbonic anhydrases, 2015 - 2015

GÜZEL AKDEMİR Ö., Yükseköğretim Kurumları Destekli Proje, 1,2-Benzendisulfonamid türevlerinin yapı tayini, 2012 - 2013

GÜZEL AKDEMİR Ö., Yükseköğretim Kurumları Destekli Proje, 1,2-Benzendisulfonamid türevlerinin sentezi, yapı tayini ve biyolojik etkilerinin incelenmesi, 2011 - 2013

GÜZEL AKDEMİR Ö., Yükseköğretim Kurumları Destekli Proje, Synthesis and Pharmacological Evaluation of New Series of 3-Phenyl-1H-indole-5-Sulfonamides as Promising Carbonic Anhydrase Inhibitors, 2012 - 2012
GÜZEL AKDEMİR Ö., Yükseköğretim Kurumları Destekli Proje, İndol artığı taşıyan benzensülfonamid türevlerinin sentezi ve yapılarının aydınlatılması, 2009 - 2011
GÜZEL AKDEMİR Ö., Yükseköğretim Kurumları Destekli Proje, Carbonic anhydrase inhibitors. The nematode ?-carbonic anhydrase of Caenorhabditis elegans CAH-4b is highly inhibited by, 2009 - 2009
GÜZEL AKDEMİR Ö., Yükseköğretim Kurumları Destekli Proje, 5/6-substitüesakkarinler'in ditiyokarbamat ve alkoksitiyokarboniltiyo türevlerinin sentezi, yapılarının aydınlatılması ve biyolojik etkilerinin incelenmesi, 2008 - 2009

Patent

Karalı N. L., Güzel Akdemir Ö., Gül A., Erman B., Lack N., Interlökin-1 reseptör antagonisti 1H-indol-2,3-dion-3-tiyosemikarbazon türevleri , Patent, BÖLÜM A İnsan İhtiyaçları, Buluşun Başvuru Numarası: TP16-431 , Standart Tescil, 2016

Bilimsel Dergilerdeki Faaliyetler

Journal of Enzyme Inhibition and Medicinal Chemistry , Editörler Kurulu Üyesi, 2011 - Devam Ediyor

Bilimsel Kuruluşlardaki Üyelikler / Görevler

Türk Farmasötik ve Medisinal Kimya Derneği, Üye, 1998 - Devam Ediyor

Bilimsel Hakemlikler

Journal of Enzyme Inhibition and Medicinal Chemistry, SCI Kapsamındaki Dergi, Ocak 2019
Journal of Enzyme Inhibition and Medicinal Chemistry, SCI Kapsamındaki Dergi, Ocak 2018
Journal of Enzyme Inhibition and Medicinal Chemistry, SCI Kapsamındaki Dergi, Ocak 2017
Journal of Enzyme Inhibition and Medicinal Chemistry, SCI Kapsamındaki Dergi, Ocak 2016
Journal of Enzyme Inhibition and Medicinal Chemistry , SCI Kapsamındaki Dergi, Ocak 2015
Bioorganic and Medicinal Chemistry, SCI Kapsamındaki Dergi, Ocak 2014
European journal of Medicinal Chemistry, SCI Kapsamındaki Dergi, Ocak 2013

Metrikler

Yayın: 88
Atıf (WoS): 502
Atıf (Scopus): 655
H-İndeks (WoS): 14
H-İndeks (Scopus): 16

Kongre ve Sempozyum Katılımı Faaliyetleri

2. Ulusal Marmara Eczacılık Kongresi (UMEK-2018), Katılımcı, İstanbul, Türkiye, 2018
3rd Satellite Meeting on Carbonic Anhydrase, Katılımcı, Firenze, İtalya, 2017
10th International Carbonic Anhydrase Conference, Katılımcı, Maastricht, Hollanda, 2015

Frontiers in CA research, Katılımcı, Montecatini, İtalya, 2013
9th International Conference on the Carbonic Anhydrases, Katılımcı, Antalya, Türkiye, 2012
8th International Conference on the Carbonic Anhydrases, Katılımcı, Floransa, İtalya, 2009
9th International Symposium on Pharmaceutical Sciences (ISOPS), Katılımcı, Ankara, Türkiye, 2009
3rd International Meeting on Medicinal and Pharmaceutical Chemistry (IMMPC-3), Katılımcı, Antalya, Türkiye, 2007
5th International symposium on Pharmaceutical Chemistry, Katılımcı, İstanbul, Türkiye, 2007
3rd International Conference on Multi-Component Reactions and Related Chemistry, Katılımcı, Amsterdam, Türkiye, 2006
International Symposium on Medicinal Chemistry Research and Development 2005, MCRD 2005, Katılımcı, Kuşadası, Türkiye, 2005
2ND International Meeting on Medicinal and Pharmaceutical Chemistry IMMPC-2, Katılımcı, Antalya, Türkiye, 2004
4th International Symposium on Pharmaceutical Chemistry, Katılımcı, Istanbul, Türkiye, 2003
1st International Meeting on Medicinal and Pharmaceutical Chemistry IMMPC-1, Katılımcı, Ankara, Türkiye, 2002

Akademi Dışı Deneyim

İtalya, Floransa Üniversitesi, Kimya Fakültesi