



# KÜBRA DEMİR YAZICI

## RES. ASST. PHD

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### Learning Knowledge

Doctorate  
2016 - 2023

Istanbul University, Faculty Of Pharmacy , Farmasötik Kimya, Turkey

Undergraduate  
2012 - 2016

Istanbul University, Faculty Of Pharmacy , Eczacılık, Turkey

### Dissertations

Doctorate, Tümör-ilişkili İnsan Karbonik Anhidraz hCA IX ve XII enzim inhibisyonu gösterebilecek 3-Fenil-5-sülfamoil-1H-indol artığı taşıyan yeni moleküllerin moleküler modellemesi, sentezi, yapı tayini ve enzim inhibisyon deneylerinin incelenmesi, Istanbul University, Health Sciences Institute, 2023

### Academic Titles / Tasks

Research Assistant  
2018 - Continues

Istanbul University, Faculty of Pharmacy , Department of Professional  
Pharmaceutical Sciences

### Supported Projects

- GÜZEL AKDEMİR Ö., DEMİR YAZICI K., AKDEMİR A., TRAWALLY M., GULİYEVA L., Project Supported by Higher Education Institutions, Rasyonel tasarlanmış potansiyel Karbonik Anhidraz IX/XII inhibitör etkili yeni 3-sübtitüe-5-sülfamoil-1H-indol-2-karbohidrazid türevlerinin sentezi ve biyoaktivite çalışmaları, 2021 - Continues
- HASBAL ÇELİKOK G., ALTIPARMAK ÜLBEGİ G., DEMİR YAZICI K., GÜZEL AKDEMİR Ö., AKSOY SAĞIRLI P., ARCAN G. G., Project Supported by Higher Education Institutions, Bazı sülfamoilindol bazlı hidrazonların antikanser

- potansiyellerinin, DNA hasarı oluşturuvcu etkilerinin ve antioksidan aktivitelerinin belirlenmesi, 2021 - 2024
3. GÜZEL AKDEMİR Ö., DEMİR YAZICI K., AKDEMİR A., Project Supported by Higher Education Institutions, İnsan Karbonik Anhidraz hCA IX ve XII Enzim İnhibisyonu Gösterebilecek 3-Fenil-5-Sülfamoil-1H-İndol Artığı Taşıyan Yeni Moleküller Üzerine Çalışmalar, 2018 - 2023
  4. GÜZEL AKDEMİR Ö., DEMİR YAZICI K., AKDEMİR A., Project Supported by Higher Education Institutions, Sülfonamid grubu içeren yeni moleküllerin moleküler modellemesi, sentezi, yapı tayini ve karbonik anhidraz enzim inhibisyonlarının incelenmesi, 2019 - 2021
  5. KARALI N. L., BOZDAĞ M., NAESENS L., CİHAN ÜSTÜNDAĞ G., GÖKTAŞ F., APAYDIN Ç. B., SUPURAN C. T., VULLO D., CARTA F., STEVAERT A., et al., Project Supported by Higher Education Institutions, Sülfamoilfenil artığı taşıyan 1H-indol-2,3-dion 3-tiyosemikarbazon türevleri: Moleküler modelleme, sentez, yapı tayini, antikanser ve antiviral etki tayini, 2018 - 2021

## Awards

1. Demir Yazıcı K., İ.Ü. Eczacılık Fakültesi Mezuniyet 3.lük Ödülü, İstanbul Üniversitesi Eczacılık Fakültesi, May 2016

## Published journal articles indexed by SCI, SSCI, and AHCI

1. **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**  
DEMİR YAZICI K., Trawally M., Bua S., Öztürk-Civelek D., Akdemir A., Supuran C. T., GÜZEL AKDEMİR Ö.  
Bioorganic Chemistry, vol.144, 2024 (SCI-Expanded)
2. **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, vol.24, no.9, pp.649-667, 2024 (SCI-Expanded)
3. **Dithiocarbamates and dithiocarbonates containing 6-nitrosaccharin scaffold: Synthesis, antimycobacterial activity and in silico target prediction using ensemble docking-based reverse virtual screening**  
Trawally M., DEMİR YAZICI K., İpek Dingiş-Birgül S., Kaya K., AKDEMİR A., GÜZEL AKDEMİR Ö.  
Journal of Molecular Structure, vol.1277, 2023 (SCI-Expanded)
4. **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, vol.121, 2022 (SCI-Expanded)
5. **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 AKDEMİR Ö., DEMİR YAZICI K., Vullo D., Supuran C. T., AKDEMİR A.  
Anti-Cancer Agents in Medicinal Chemistry, vol.22, no.14, pp.2637-2646, 2022 (SCI-Expanded)
6. **Synthesis, molecular modelling and cholinesterase inhibitory effects of 2-indolinone based hydrazinecarbothioamides**  
Demir Yazıcı K., Apaydın Ç. B., Soylu Eter Ö., Özsoy N., Karalı N. L.  
FUTURE MEDICINAL CHEMISTRY, vol.13, pp.2133-2151, 2021 (SCI-Expanded)
7. **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, vol.21, 2020 (SCI-Expanded)
8. **Development of Thiazolidinones as Fungal Carbonic Anhydrase Inhibitors**

- Guzel-Akdemir Ö., Carradori S., Grande R., Demir-Yazici K., Angeli A., Supuran C. T., AKDEMİR A.  
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol.21, no.8, 2020 (SCI-Expanded)
9. **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, vol.20, 2019 (SCI-Expanded)
  10. **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, vol.33, no.1, pp.1299-1308, 2018 (SCI-Expanded)

### Articles Published in Other Journals

1. **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, vol.52, no.3, pp.297-301, 2022 (Peer-Reviewed Journal)
2. **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, vol.26, no.4, pp.931-940, 2022 (ESCI)
3. **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, vol.25, no.3, pp.305-317, 2021 (ESCI)
4. **Evaluation of new 2-hydroxy-N-(4-oxo-2-substituted phenyl-1,3-thiazolidin-3-yl)-2-phenylacetamide derivatives as potential antimycobacterial agents**  
Güzel Akdemir Ö., Demir Yazıcı K., Trawally M., Dingiş-Birgül S. İ., Akdemir A.  
Organic Communications, vol.2, no.13, pp.33-50, 2020 (ESCI)

### Refereed Congress / Symposium Publications in Proceedings

1. **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, Turkey, 22 - 25 June 2021, pp.309
2. **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 February - 28 August 2021, pp.718
3. **Inhibition of the  $\alpha$ -class Carbonic Anhydrase from *Vibrio cholera*(VchCA) with Novel Sulfonamido based Hydrozones**  
Güzel Akdemir Ö., Demir Yazıcı K.  
8th International Drug Chemistry Conference, Antalya, Turkey, 27 February - 01 March 2020, pp.69
4. **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 International Drug Chemistry Conference, Antalya, Turkey, 27 February - 01 March 2020, pp.235
5. **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 International Drug Chemistry Conference, Antalya, Turkey, 27 February - 01 March 2020, pp.307

6. **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, Italy, 14 - 17 November 2019, vol.1, no.1, pp.11
7. **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, Italy, 14 - 17 November 2019, vol.1, no.1, pp.10
8. **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, Turkey, 14 - 16 November 2018, pp.111
9. **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, Italy, 24 - 27 May 2017, pp.68

## Metrics

Publication: 23

Citation (WoS): 65

Citation (Scopus): 75

H-Index (WoS): 4

H-Index (Scopus): 4

## Congress and Symposium Activities

- 13th International Symposium on Pharmaceutical Sciences (ISOPS), Attendee, Ankara, Turkey, 2021  
3rd INTERNATIONAL AFRICAN CONFERENCE ON CURRENT STUDIES, Attendee, Abomey, Benin, 2021  
8th International Drug Chemistry Conference, Attendee, Antalya, Turkey, 2020  
4th Satellite International Meeting on Carbonic Anhydrase, Attendee, Parma, Italy, 2019  
2. Ulusal Marmara Eczacılık Kongresi (UMEK-2018), Attendee, İstanbul, Turkey, 2018  
3rd Satellite Meeting on Carbonic Anhydrase, Attendee, Pistoia, Italy, 2017

## Research Areas

Health Sciences, Pharmacology and Therapeutics, Professional Sciences, Pharmaceutical Chemistry