

# Prof. Özlen GÜZEL AKDEMİR

## Personal Information

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## Education Information

Doctorate, İstanbul Üniversitesi, Faculty of Pharmacy , Farmasötik Kimya, Turkey 2000 - 2005

Postgraduate, İstanbul Üniversitesi, Faculty of Pharmacy , Farmasötik Kimya, Turkey 1997 - 2000

Undergraduate, İstanbul Üniversitesi, Faculty of Pharmacy , Turkey 1993 - 1997

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, N-metilsakkarinin kükürtlü türevlerinin sentezi, yapılarının aydınlatılması ve biyolojik etkilerinin incelenmesi, İstanbul University, Faculty of Pharmacy , Farmasötik Kimya, 2005

Postgraduate, Primer amin grubu taşıyan bazı ilaç maddelerinin spektrofotometrik miktar tayini, İstanbul University, Faculty of Pharmacy , Farmasötik Kimya, 2000

## Research Areas

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

## Academic Titles / Tasks

Professor, İstanbul University, Faculty Of Pharmacy , Department Of Professional Pharmaceutical Sciences, 2016 - Continues

Associate Professor, İstanbul University, Faculty Of Pharmacy , Department Of Professional Pharmaceutical Sciences, 2011 - 2016

Assistant Professor, İstanbul University, Faculty Of Pharmacy , Department Of Professional Pharmaceutical Sciences, 2008 - 2011

Research Assistant, İstanbul University, Faculty Of Pharmacy , Department Of Professional Pharmaceutical Sciences, 1997 - 2008

## Courses

Farmasötik Kimya IV, Undergraduate, 2012 - 2013, 2016 - 2017

Antikanser ve Antiviral İlaçlar, Doctorate, 2016 - 2017

Farmasötik Kimya II, Undergraduate, 2015 - 2016

Organik Kimya, Undergraduate, 2012 - 2013, 2015 - 2016, 2016 - 2017

Organik Kimyada Reaksiyon Mekanizmaları, Doctorate, 2016 - 2017

İleri Organik Kimya, Postgraduate, 2012 - 2013

Bilimsel Araştırma ve Literatür Tarama, Undergraduate, 2011 - 2012, 2012 - 2013

UV ve IR spektroskopileri ve İlaçlara uygulanması, Postgraduate, 2010 - 2011, 2011 - 2012, 2012 - 2013

## Advising Theses

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

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **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, vol.103, 2020 (Journal Indexed in SCI)
- II. **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, vol.151, pp.1443-1452, 2020 (Journal Indexed in SCI)
- III. **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 (Journal Indexed in SCI)
- IV. **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 (Journal Indexed in SCI)
- V. **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 (Journal Indexed in SCI)
- VI. **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 (Journal Indexed in SCI)
- VII. **Isatin analogs as novel inhibitors of Candida spp. beta-carbonic anhydrase enzymes**  
AKDEMİR A., Guzel-Akdemir O., Karali N. L., Supuran C. T.  
BIOORGANIC & MEDICINAL CHEMISTRY, vol.24, no.8, pp.1648-1652, 2016 (Journal Indexed in SCI)
- VIII. **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, vol.13, no.23, pp.6493-6499, 2015 (Journal Indexed in SCI)
- IX. **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, vol.21, no.21, pp.6674-6680, 2013 (Journal Indexed in SCI)

- X. **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, vol.21, no.17, pp.5228-5232, 2013 (Journal Indexed in SCI)
- XI. **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, vol.56, no.14, pp.5773-5781, 2013 (Journal Indexed in SCI)
- XII. **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, vol.21, pp.1386-1391, 2013 (Journal Indexed in SCI)
- XIII. **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, vol.19, 2011 (Journal Indexed in SCI)
- XIV. **Carbonic anhydrase inhibitors. The  $\beta$ -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., Mühlischlegel F. A. , Supuran C. T.  
BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, vol.20, pp.2508-2511, 2010 (Journal Indexed in SCI)
- XV. **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, vol.16, no.29, pp.3317-3326, 2010 (Journal Indexed in SCI)
- XVI. **Synthesis and biological evaluation of new 4-thiazolidinone derivatives**  
Guzel O., Salman A.  
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.24, no.4, pp.1015-1023, 2009 (Journal Indexed in SCI)
- XVII. **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, vol.17, no.14, pp.4894-4899, 2009 (Journal Indexed in SCI)
- XVIII. **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, vol.52, no.13, pp.4063-4067, 2009 (Journal Indexed in SCI)
- XIX. **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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BIOORGANIC & MEDICINAL CHEMISTRY, vol.17, pp.4894-4899, 2009 (Journal Indexed in SCI)
- XX. **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, vol.19, pp.3170-3173, 2009 (Journal Indexed in SCI)
- XXI. **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., Mühlischlegel F. A. , Supuran C. T.  
BIOORGANIC & MEDICINAL CHEMISTRY, vol.17, no.8, pp.3212-3215, 2009 (Journal Indexed in SCI)

- XXII. **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, vol.19, pp.2931-2934, 2009 (Journal Indexed in SCI)
- XXIII. **Crystal Structure of 1,1,3-trioxo-2,3-dihydro-1,2-benzisothiazol-2-ylmethyl 4-phenyl piperazine-1-carbodithioate, C<sub>19</sub>H<sub>19</sub>N<sub>3</sub>O<sub>3</sub>S<sub>3</sub>**  
AKKURT M., Yalçin S. P. , Guzel O., Salman A., BÜYÜKGÜNGÖR O.  
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, vol.65, 2009 (Journal Indexed in SCI)
- XXIV. **Crystal Structure of 1,1,3-trioxo-2,3-dihydro-1,2-benzisothiazol-2-ylmethyl 4-phenyl Piperazine-1-carbodithioate, C<sub>19</sub>H<sub>19</sub>N<sub>3</sub>O<sub>3</sub>S<sub>3</sub>.**  
AKKURT M., Yalçin S. P. , Guzel O., Salman A., BÜYÜKGÜNGÖR O.  
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, vol.65, 2009 (Journal Indexed in SCI)
- XXV. **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, vol.18, pp.152-158, 2008 (Journal Indexed in SCI)
- XXVI. **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, vol.16, no.19, pp.8976-8987, 2008 (Journal Indexed in SCI)
- XXVII. **N-(2,6-dimethyl-3-oxo-1-thia-4-azaspiro[4.5]dec-4-yl)-2-hydroxy-2,2-diphenylacetamide**  
Yalçin S. P. , AKKURT M., ŞAHİN E., Guzel O., Salman A., İlhan E.  
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.64, 2008 (Journal Indexed in SCI)
- XXVIII. **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, vol.16, pp.9113-9120, 2008 (Journal Indexed in SCI)
- XXIX. **Synthesis and antituberculosis activity of 5-methyl/trifluoromethoxy-1H-indole-2,3-dione-3-thiosemicarbazone derivatives**  
GÜZEL Ö., Karali N., Salman A.  
BIOORGANIC & MEDICINAL CHEMISTRY, vol.16, pp.8976-8987, 2008 (Journal Indexed in SCI)
- XXX. **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, vol.24, 2008 (Journal Indexed in SCI)
- XXXI. **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, vol.E63, 2007 (Journal Indexed in SCI)
- XXXII. **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, vol.E64, 2007 (Journal Indexed in SCI)
- XXXIII. **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, vol.E63, 2007 (Journal Indexed in SCI)
- XXXIV. **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, vol.E63, 2007 (Journal Indexed in SCI)
- XXXV. **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, vol.14, no.23, pp.7804-7815, 2006 (Journal Indexed in SCI)

- XXXVI. **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**

GÜZEL Ö., Salman A.

BIOORGANIC & MEDICINAL CHEMISTRY, vol.14, pp.7804-7815, 2006 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **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 (online), vol.25, no.3, pp.305-317, 2021 (National Refreed University Journal)
- II. **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 (Journal Indexed in ESCI)
- III. **Antimicrobial and antiviral activity of spiroindolinones bearing benzothiazolines moiety**  
Güzel Ö., Karalı N. L., Ermut G., Birteksöz Tan A. S.  
ISTANBUL JOURNAL OF PHARMACY, vol.43, no.1, pp.1-11, 2013 (National Refreed University Journal)
- IV. **Spectrophotometric determination of drugs having primary amine group with p-dimethylaminocinnamaldehyde**  
GÜZEL Ö., Salman A.  
TURKISH JOURNAL OF PHARMACEUTICAL SCIENCES, vol.4(1), pp.31-39, 2007 (Other Refereed National Journals)

## Books & Book Chapters

- I. **The Structure, Physiological Role, and Potential Medicinal Applications of Carbonic Anhydrase V**  
Akdemir A., GÜZEL AKDEMİR Ö.  
in: Carbonic Anhydrases as Biocatalysts from Theory to Medical and Industrial Applications, Claudiu T. Supuran, Giuseppina De Simone, Editor, Elsevier Science, Oxford/Amsterdam, Amsterdam, pp.125-136, 2015

## Refereed Congress / Symposium Publications in Proceedings

- 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, Turkey, 22 - 25 June 2021, pp.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 February - 28 August 2021, pp.718
- III. **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
- 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 International Drug Chemistry Conference, Antalya, Turkey, 27 February - 01 March 2020, pp.307
- V. **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

- VI. **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
- VII. **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
- 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, Turkey, 14 - 16 November 2018, pp.111
- IX. **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, Italy, 24 - 27 May 2017, pp.69
- X. **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
- XI. **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, Turkey, 27 - 30 June 2016, pp.1
- XII. **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, Netherlands, 20 - 22 April 2015, pp.48
- XIII. **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, Turkey, 11 - 15 April 2012, pp.84
- 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, Turkey, 11 - 15 April 2012, pp.67
- XV. **5-triflorometoksi-1H-İndol-2,3-Dion 3-Tiyosemikarbazon Türevlerinin Miyeloid, Lenfoid Lösemi Hücreleri ve Akut Lenfoblastik Lösemi Hastalarının Periferik Kan Mononükleer 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, Turkey, 14 - 17 March 2010, pp.40
- XVI. **Carbonic anhydrase inhibitors. The nematode  $\gamma$ -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., Mühlischlegel F. A. , Supuran C.  
8th International Conference on the Carbonic Anhydrases, Floransa, Italy, 16 - 19 September 2009, pp.43
- XVII. **Synthesis and biological evaluation of new 6-nitrosaccharin derivatives**  
GÜZEL Ö., Salman A.  
9th International Symposium on Pharmaceutical Sciences (ISOPS), Ankara, Turkey, 23 - 26 June 2009, pp.190

- XVIII. **Discovery of low nanomolar and subnanomolar inhibitors of the mycobacterial  $\alpha$ -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, Turkey, 23 - 26 June 2009, pp.188
- XIX. **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, Turkey, 16 - 21 October 2007, pp.1
- XX. **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, Turkey, 16 - 21 October 2007, pp.70
- XXI. **Synthesis, characterization and antituberculosis activity of spiroindolinones**  
Karalı N., GÜZEL Ö., Salman A.  
5th International symposium on Pharmaceutical Chemistry, İstanbul, Turkey, 5 - 07 September 2007, pp.80
- XXII. **Characterization and Antituberculosis Activity of Spiroindolinones**  
KARALI N. L., GÜZEL Ö., Salman A.  
5th International Symposium on Pharmaceutical Chemistry, İstanbul, Turkey, 5 - 07 September 2007, pp.1
- XXIII. **Synthesis antimycobacterial and antitumor activities of new 5-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, Turkey, 5 - 07 September 2007, pp.57
- XXIV. **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.  
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GÜZEL AKDEMİR Ö., Project Supported by Higher Education Institutions, Substituted-phenylacetamido aromatic sulfonamides are potent inhibitors of human and Trypanosoma cruzi carbonic anhydrases, 2015 - 2015

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Türk Farmasötik ve Medisinal Kimya Derneği, Member, 1998 - Continues

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3rd Satellite Meeting on Carbonic Anhydrase, Attendee, Firenze, Italy, 2017

10th International Carbonic Anhydrase Conference, Attendee, Maastricht, Netherlands, 2015

Frontiers in CA research, Attendee, Montecatini, Italy, 2013

9th International Conference on the Carbonic Anhydrases, Attendee, Antalya, Turkey, 2012

8th International Conference on the Carbonic Anhydrases, Attendee, Floransa, Italy, 2009

9th International Symposium on Pharmaceutical Sciences (ISOPS), Attendee, Ankara, Turkey, 2009

3rd International Meeting on Medicinal and Pharmaceutical Chemistry (IMMPC-3), Attendee, Antalya, Turkey, 2007

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