

## Assoc. Prof. ZEHRA TUĞÇE GÜR MAZ

### Personal Information

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### International Researcher IDs

ScholarID: pXiGJfIAAAAJ

ORCID: 0000-0001-8916-2492

Publons / Web Of Science ResearcherID: AAC-4388-2019

ScopusID: 57209802146

Yoksis Researcher ID: 123955

### Education Information

Doctorate, Gazi University, Sağlık Bilimleri Enstitüsü, Farmasotik Kimya (Dr), Turkey 2012 - 2016

Undergraduate, Anadolu University, Faculty Of Business Administration, Department Of Business, Turkey 2009 - 2013

Undergraduate, Ankara University, Eczacılık Fakültesi, Eczacılık Pr., Turkey 2007 - 2012

### Dissertations

Doctorate, ANTİLÖKOTRİEN ETKİLİ 1,2,5-TRİSÜBSTİTÜE BENZİMİDAZOL TÜREVLERİNİN GELİŞTİRİLMESİ ÜZERİNDE YAPILAN ÇALIŞMALAR, Gazi University, Sağlık Bilimleri Enstitüsü, Farmasotik Kimya (Dr), 2016

### Research Areas

Pharmacology and Therapeutics, Pharmaceutical Chemistry, Health Sciences

### Academic Titles / Tasks

Associate Professor, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 2023 - Continues

Assistant Professor, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 2022 - 2023

Research Assistant PhD, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 2016 - 2022

Research Assistant, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 2012 - 2016

### Academic and Administrative Experience

Ölçme Değerlendirme Kurulu Üyesi, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 2022 - 2024

### Courses

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

- I. **Novel 1,3,4-oxadiazole derivatives as highly potent microsomal prostaglandin E2 synthase-1 (mPGES-1) inhibitors**  
Gür Maz T., Dahlke P., Gizem Ergül A., OLĞAÇ A., Jordan P. M., ÇALIŞKAN B., Werz O., BANOĞLU E.  
Bioorganic Chemistry, vol.147, 2024 (SCI-Expanded)
- II. **Design, Synthesis and Evaluation of Aryl-Tailored Oxadiazole-thiones as New Urease Inhibitors**  
Gür Maz Z. T., Caliskan H. B., Capan İ., Caliskan B., Özçelik B., Banoglu E.  
CHEMISTRYSELECT, vol.8, no.8, 2023 (SCI-Expanded)
- III. **Benzoxazolone-5-Urea Derivatives as Human Soluble Epoxide Hydrolase (sEH) Inhibitors.**  
Gür Maz Z. T., Koç B., Jordan P. M., İbiş K., Çalışkan B., Werz O., Banoğlu E.  
ACS OMEGA, vol.8, no.2, pp.2445-2454, 2023 (SCI-Expanded)
- IV. **Development and molecular modeling studies of new thiadiazole piperazine urea derivatives as potential fatty acid amide hydrolase inhibitors**  
Gür Maz Z. T., Turanlı S., Çalışkan H. B., Çalışkan B., Banoğlu E.  
ARCHIV DER PHARMAZIE, vol.355, no.8, pp.1-11, 2022 (SCI-Expanded)
- V. **A Series of Thiadiazolyl-Benzenesulfonamides Incorporating an Aromatic Tail as Isoform-Selective, Potent Carbonic Anhydrase II/XII Inhibitors**  
Banoglu E., Ercanlı T., Gür Maz T., Vullo D., Bonardi A., Gratteri P., Supuran C. T.  
CHEMMEDCHEM, vol.17, no.10, 2022 (SCI-Expanded)
- VI. **Novel potent benzimidazole-based microsomal prostaglandin E2 synthase-1 (mPGES-1) inhibitors derived from BRP-201 that also inhibit leukotriene C4 synthase**  
Ergül A. G., Maz T. G., Kretzer C., Olğaç A., Jordan P. M., Çalışkan B., Werz O., Banoğlu E.  
European Journal of Medicinal Chemistry, vol.231, 2022 (SCI-Expanded)
- VII. **Shifting the Biosynthesis of Leukotrienes Toward Specialized Pro-Resolving Mediators by the 5-Lipoxygenase-Activating Protein (FLAP) Antagonist BRP-201**  
Kretzer C., Jordan P. M., Bilancia R., Rossi A., Maz T. G., BANOĞLU E., Schubert U. S., Werz O.  
Journal of Inflammation Research, vol.15, pp.911-925, 2022 (SCI-Expanded)
- VIII. **Simple heteroaryl modifications in the 4,5-diarylisoaxazol-3-carboxylic acid scaffold favorably modulates the activity as dual mPGES-1/5-LO inhibitors with in vivo efficacy**  
Gurses T., OLĞAÇ A., Garscha U., GÜR MAZ Z. T., BAL N. B., Uludag O., ÇALIŞKAN B., Schubert U. S., Werz O., BANOĞLU E.  
BIOORGANIC CHEMISTRY, vol.112, 2021 (SCI-Expanded)
- IX. **Exploration of anti-tyrosinase effect of Geranium glaberrimum Boiss. & Heldr. with in silico approach and survey of 21 Geranium species**  
Celikler Ozer O., Erdoğan Orhan İ., Çalışkan B., Senol Deniz F. S., Gokbulut A., Gur Maz T., Aysal A. İ., Emerce E., Shekfeh S., Kahraman A., et al.  
JOURNAL OF HERBAL MEDICINE, vol.27, 2021 (SCI-Expanded)
- X. **Benzimidazole derivatives as potent and isoform selective tumor-associated carbonic anhydrase IX/XII inhibitors**  
Uslu A. G., Maz T. G., Nocentini A., BANOĞLU E., Supuran C. T., ÇALIŞKAN B.  
BIOORGANIC CHEMISTRY, vol.95, 2020 (SCI-Expanded)
- XI. **Optimisation by design of experiment of benzimidazol-2-one synthesis under flow conditions**  
Mostarda S., Maz T. G., Piccinno A., Cerra B., Banoğlu E.  
Molecules, vol.24, no.13, 2019 (SCI-Expanded)
- XII. **Novel Piperazine Amides of Cinnamic Acid Derivatives as Tyrosinase Inhibitors**  
GÜR MAZ Z. T., ŞENOL DENİZ F. S., Shekfeh S., ERDOĞAN ORHAN İ., BANOĞLU E., ÇALIŞKAN B.

LETTERS IN DRUG DESIGN & DISCOVERY, vol.16, no.1, pp.36-44, 2019 (SCI-Expanded)

**XIII. Drug discovery approaches targeting 5-lipoxygenase-activating protein (FLAP) for inhibition of cellular leukotriene biosynthesis**

Gür Maz Z. T., Çalışkan B., Banoğlu E.

EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.153, pp.34-48, 2018 (SCI-Expanded)

**XIV. Identification of multi-target inhibitors of leukotriene and prostaglandin E-2 biosynthesis by structural tuning of the FLAP inhibitor BRP-7**

GÜR MAZ Z. T., ÇALIŞKAN B., Garscha U., OLĞAÇ A., Schubert U. S., Gerstmeier J., Werz O., BANOĞLU E.

EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.150, pp.876-899, 2018 (SCI-Expanded)

## Articles Published in Other Journals

**I. Synthesis of some piperazine/piperidine amides of chromone-2-carboxylic acid as potential soluble epoxide hydrolase (sEH) inhibitors**

GÜR MAZ Z. T., ÇALIŞKAN H. B.

ORGANIC COMMUNICATIONS, vol.16, 2023 (ESCI)

**II. DESIGN AND SYNTHESIS OF SOME ARYLHYDRAZONE DERIVATIVES AS POTENTIAL FAAH INHIBITORS**

Gür Maz Z. T., Çalışkan H. B., Turanlı S.

ANKARA UNIVERSITESI ECZACILIK FAKULTESI DERGISI, vol.47, no.1, pp.111-119, 2023 (Scopus)

**III. Synthesis and evaluation of antibacterial and antimycobacterial activities of some new pyrazole derivatives**

Gür Maz Z. T., Karaca N., Levent S., Çalışkan B., Demirci F., Banoğlu E.

JOURNAL OF RESEARCH IN PHARMACY, vol.25, no.5, pp.531-539, 2021 (ESCI)

**IV. Crystal structure and Hirshfeld surface analysis of 1-(2,4-dichlorobenzyl)-5-methyl-N-(thiophene-2-sulfonyl)-1H-pyrazole-3-carboxamide**

Aydın A., Akkurt M., Gür Maz Z. T., Banoğlu E.

ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.74, pp.747-757, 2018 (ESCI)

**V. Crystal structure and Hirshfeld surface analysis of methyl 1-(2,4-dichlorobenzyl)-5-methyl-1H-pyrazole-3-carboxylate**

Aydın A., Akkurt M., Gür Maz Z. T., Banoğlu E.

European Journal of Chemistry, vol.9, no.4, pp.347-352, 2018 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

**I. Evaluation of Indole Based Carboxamide Derivatives as Soluble Epoxide Hydrolase (sEH) Inhibitors**

GÜR MAZ Z. T.

EUROASIA International Congress on Scientific Researches and Recent Trends-X, Baku, Azerbaijan, 16 - 17 February 2023

**II. Ibuprofen Based Piperidine Amides as Potential Fatty Acid Amide Hydrolase (FAAH) inhibitors**

Gür Maz Z. T., Turanlı S.

The 16th International Scientific Research Congress, Ankara, Turkey, 11 - 12 March 2023

**III. Evaluation of Oxadiazole Derivatives as Promising Microsomal Prostaglandin E2 Synthase-1 (mPGES-1) Inhibitors**

GÜR MAZ Z. T., ERGÜL A. G., JORDAN P. M., ÇALIŞKAN B., WERZ O., BANOĞLU E.

XXVII EFMC International Symposium on Medicinal Chemistry (EFMC-ISMC 2022), Nice, France, 4 - 08 September 2022

**IV. Novel Microsomal Prostaglandin E2 Synthase-1 (MPGES-1) Inhibitors as a New Modality To Treat Inflammation**

ÇALIŞKAN B., ERGÜL A. G., GÜR MAZ Z. T., KRETZER C., OLĞAÇ A., JORDAN P. M., WERZ O., BANOĞLU E.

XXVII EFMC International Symposium on Medicinal Chemistry (EFMC-ISMC 2022), Nice, France, 4 - 08 September 2022

- V. **NOVEL BENZOTHAZOLE DERIVATIVES AS MICROSOMAL PROSTAGLANDINE E2 SYNTHASE-1 (mPGES-1) INHIBITORS**  
YALÇIN T., GÜR MAZ Z. T., KRETZER C., ÇALIŞKAN B., WERZ O., BANOĞLU E.  
9th EFMC Young Medicinal Chemists' Symposium (EFMC-YMCS 2022), Nice, France, 8 - 09 September 2022
- VI. **SELECTIVE OR DUAL INHIBITORS OF INFLAMMATORY PGE2 AND LTB4 BIOSYNTHESIS BY TARGETING mPGES-1 AND FLAP TO INTERVENE WITH INFLAMMATORY DEREGLATION**  
BANOĞLU E., ÇALIŞKAN B., ERGÜL A. G., GÜR MAZ Z. T., OLĞAÇ A., WERZ O.  
The Sixth International Symposium on Pharmaceutical and Biomedical Sciences (ISPBS-6), Gaziantep, Turkey, 26 - 28 May 2022
- VII. **Discovery of Novel Microsomal Prostaglandin E2 Synthase-1 (mPGES-1) Inhibitors: A New Modality to Treat Inflammation**  
Banoğlu E., Çalışkan B., Ergül A. G., Gür Maz Z. T., Kretzer C., Olğaç A., Jordan P. M., Werz O.  
10th International Drug Chemistry Conference, Antalya, Turkey, 10 - 13 March 2022
- VIII. **Para Kumarik Asidin Heteroarilalkil Amid Türevlerinin Sentezi ve Yağ Asidi Amid Hidrolaz (FAAH) İnhibitör Aktiviteleri**  
GÜR MAZ Z. T.  
33. Ulusal Kimya Kongresi, Turkey, 07 October 2021
- IX. **NOVEL PIPERAZINYL UREA DERIVATIVES AS POTENTIAL FATTY ACID AMIDE HYDROLASE (FAAH) INHIBITORS**  
TURANLI S., ÇALIŞKAN H. B., GÜR MAZ Z. T., ÇALIŞKAN B., BANOĞLU E.  
3rd International Gazi Pharma Symposium Series, 08 September 2021
- X. **2(3H)-BENZOXAZOLONE DERIVATIVES AS POTENTIAL FATTY ACID AMIDE HYDROLASE (FAAH) INHIBITORS**  
GÜR MAZ Z. T.  
3rd International Gazi Pharma Symposium Series, Turkey, 08 September 2021
- XI. **Discovery of Multitarget Inhibitors in the Arachidonic Acid Pathway by Targeting FLAP/5-LO/mPGES-1 for Intervention with Inflammatory Deregulation**  
BANOĞLU E., ÇALIŞKAN B., GÜR MAZ Z. T., OLĞAÇ A., Garscha U., Werz O.  
8th International Drug Chemistry Conference, Antalya, Turkey, 27 February - 01 March 2020
- XII. **EVOLUTION OF SELECTIVE FLAP INHIBITOR BRP-7 INTO MULTI-TARGET INHIBITOR OF FLAP, 5-LO AND MPGES-1 IN THE ARACHIDONIC ACID PATHWAY**  
GÜR MAZ Z. T., ÇALIŞKAN B., OLĞAÇ A., GERSTMEIER J., GARSCHA U., WERZ O., BANOĞLU E.  
EFMC International Symposium on Medicinal Chemistry, Ljubljana, Slovenia, 2 - 06 September 2018, pp.231
- XIII. **ANTİLÖKOTRİEN ETKİLİ 1,2,5-TRİSÜBSTİTÜEBENZİMİDAZOL TÜREVLERİNİN GELİŞTİRİLMESİ ÜZERİNDE YAPILAN ÇALIŞMALAR**  
GÜR MAZ Z. T., ÇALIŞKAN B., GERSTMEIER J., OLĞAÇ A., GARSCHA U., WERZ O., BANOĞLU E.  
V. ULUSAL FARMASÖTİK KİMYA KONGRESİ, Erzurum, Turkey, 28 April - 01 May 2018
- XIV. **Discovery of Tyrosinase Inhibitors from Geranium glaberrimum Boiss. Heldr. Using In Vitro and In Silico Methods**  
Çelikler Ö., ŞENOL DENİZ F. S., ÇALIŞKAN B., GÜR MAZ Z. T., KAHRAMAN A., ERDOĞAN ORHAN İ., BANOĞLU E.  
The 4th Mediterranean Symposium on Medicinal and Aromatic Plants (MESMAP-2018), 18 - 22 April 2018
- XV. **Discovery and Development of Novel Anti-cancer and Anti-inflammatory Compounds: Medicinal Chemistry Challenges**  
BANOĞLU E., ÇALIŞKAN B., GÜR MAZ Z. T., OLĞAÇ A., İBİŞ K., Akhan Güzelcam E., Sinoplu E., Garscha U., Gerstmeier J., ATALAY R., et al.  
The 4th International Symposium on Pharmaceutical and Biomedical Sciences, Kumamoto, Japan, 17 March 2018
- XVI. **FROM BATCH TO CONTINUOUS FLOW CHEMISTRY:DOE-ASSISTED OPTIMIZATION OF BENZIMIDAZOL-2-ONESYNTHESIS**  
GÜR Z. T., MOSTARDA S., PICCINNO A., ÇALIŞKAN B., BANOĞLU E., GIOIELLO A.

2nd International Gazi Pharma Symposium Series, 11 - 13 October 2017

- XVII. **Developing Multi-target Inhibitors of Arachidonic Acid Pathway Based on the FLAP Inhibitor BRP-7**  
GÜR Z. T., ÇALIŞKAN B., GERSTMEIER J., OLĞAÇ A., GARSCHA U., WERZ O., BANOĞLU E.  
2nd International Gazi Pharma Symposium Series, 11 - 13 October 2017
- XVIII. **Tirozinaz İnhibitör Etkili Yeni Sinnamik Asit Türevleri**  
ÇALIŞKAN B., GÜR Z. T., ŞENOL F. S., SHEKFEH S., ERDOĞAN ORHAN İ., BANOĞLU E.  
29. Ulusal Kimya Kongresi, Turkey, 10 - 14 September 2017, pp.452
- XIX. **Bioisosteric Tuning of FLAP Inhibitor BRP-7 Towards a More Potent Antiinflammatory Agent with Multiligand Inhibitor Properties in the Arachidonic Acid (AA) Pathway**  
GÜR Z. T., ÇALIŞKAN B., OLĞAÇ A., GERSTMEIER J., GARSCHA U., WERZ O., BANOĞLU E.  
EFMC-ASMC'xx17 EFMC International Symposium on Advances in Synthetic and Medicinal Chemistry, 27 - 31 August 2017
- XX. **Araşidonik asit yolağında çoklu ligand (FLAP/5-LO/mPGES-1) özellikte inhibitör etkili BRP-7 türevlerinin geliştirilmesi**  
BANOĞLU E., GÜR Z. T., ÇALIŞKAN B., GERSTMEIER J., OLĞAÇ A., GARSCHA U., WERZ O.  
1. Anadolu Üniversitesi Eczacılık Sempozyumu, Eskişehir, Turkey, 1 - 02 June 2017, pp.10
- XXI. **Novel BRP 7 Derivatives Targeting FLAP Potent Inhibitors of Leukotriene Biosynthesis**  
GÜR Z. T., ÇALIŞKAN B., GERSTMEIER J., GARSCHA U., OLĞAÇ A., WERZ O., BANOĞLU E.  
3rd EFMC Young Medicinal Chemist Symposium, Manchester, United Kingdom, 1 - 02 September 2016
- XXII. **EXPLORATION OF THE CHEMICAL SPACE AROUND C 5 POSITION OF THE BENZIMIDAZOLE NUCLEUS IN BRP 7 TOWARDS MORE POTENT INHIBITORS OF HUMAN 5 LIPOXYGENASE ACTIVATING PROTEIN FLAP**  
GÜR Z. T., ÇALIŞKAN B., Gerstmeier J., OLĞAÇ A., nikels F., werz o., BANOĞLU E.  
EFMC International Symposium on Medicinal Chemistry, Manchester, United Kingdom, 28 August - 01 September 2016
- XXIII. **STRUCTURE BASED DESIGN AND SYNTHESIS OF NOVEL BRP 7 DERIVATIVES BEARING C 5 POLAR SUBSTITUENTS AS POTENT FLAP INHIBITORS**  
GÜR Z. T., OLĞAÇ A., Gerstmeier J., Macchiarulo A., Werz O., ÇALIŞKAN B., BANOĞLU E.  
GPSS 2015, Antalya, Turkey, 12 - 15 November 2015
- XXIV. **Structure-Based Design and Synthesis of Novel BRP-7 Derivatives as Potent FLAP Inhibitors: Insights from MolecularDynamics Simulations.**  
OLĞAÇ A., GÜR Z. T., CAROTTI A., ÇALIŞKAN B., GERSTMEIER J., WERZ O., MACCHIARULO A., BANOĞLU E.  
EFMC International Symposium on Medicinal Chemistry, LİZBON, Portugal, 7 - 11 September 2014, pp.162

## Supported Projects

GÜR MAZ Z. T., BANOĞLU E., KOÇ B., ÇALIŞKAN B., İBİŞ K., WERZ O., JORDAN P. M., Project Supported by Higher Education Institutions, Bazı Yeni İndol Türevi Çözünür Epoksit Hidrolaz İnhibitörlerinin Geliştirilmesi Üzerine Çalışmalar, 2024 - Continues

Banoğlu E., Gür Maz Z. T., Uludağ M. O., Çalışkan B., Olğaç A., Bal N. B., TUBITAK Project, Yeni Mikrozomal Prostaglandin E2 Sentaz-1 (Mpges-1) İnhibitörlerinin Geliştirilmesi Üzerine Çalışmalar, 2019 - 2023

GÜR MAZ Z. T., BANOĞLU E., ÇALIŞKAN B., TURANLI S., Project Supported by Higher Education Institutions, Yeni Piperazinilüre Türevlerinin sentezi ve FAAH İnhibitörü Aktivitelerinin İncelenmesi, 2020 - 2022

BANOĞLU E., GÜR MAZ Z. T., ERCANLI T., Project Supported by Higher Education Institutions, Yeni Tiyadiazol Türevlerinin sentezi ve Karbonik Anhidraz İnhibitörü Aktivitelerinin Karakterizasyonu, 2020 - 2022

Gür Maz Z. T., Çalışkan B., Banoğlu E., Demirci F., Project Supported by Higher Education Institutions, Pirazol-5-karboksilik asit sülfonamid türevlerinin sentezi ve antimikrobiyal aktivitelerinin değerlendirilmesi, 2017 - 2019

Banoğlu E., Çalışkan B., TUBITAK Project, 5 Lipoksijenaz aktive edici protein FLAP inhibitörlerinin geliştirilmesi, 2013 - 2016

## Patent

Banođlu E., alıřkan B., Ergöl A. G., Göl Maz Z. T., Werz O., Jordan P. M., BENZİMİDAZOLE COMPOUNDS AND PHARMACEUTICAL COMPOSITIONS AND USES THEREOF, Patent, CHAPTER A Human Needs, The Invention Recourse Number: PCT/TR2023/050887 , Standard Registration, 2023

Banođlu E., alıřkan B., Göl Maz Z. T., Ergöl A. G., Werz O., Jordan P. M., BENZİMİDAZOL TÜREVİ MİKROZOMAL PROSTAGLANDİN E2 SENTAZ-1 (mPGES-1) İNHİBİTÖRLERİ, Patent, CHAPTER A Human Needs, The Invention Recourse Number: 2022/011123 , Standard Registration, 2022

## Memberships / Tasks in Scientific Organizations

Türk Farmasötik ve Medisinal Kimya Derneđi, Member, 2012 - Continues, Turkey

## Metrics

Publication: 44

Citation (WoS): 156

Citation (Scopus): 159

H-Index (WoS): 7

H-Index (Scopus): 7

## Congress and Symposium Activities

XXVII EFMC International Symposium on Medicinal Chemistry, Attendee, Nice, France, 2022

## Non Academic Experience

Università degli Studi di Perugia