

Asst. Prof. GÖZDE YALÇIN ÖZKAT

Personal Information

Email: gozde.yalcin@erdogan.edu.tr

Web: <https://avesis.erdogan.edu.tr/gozde.yalcin>

International Researcher IDs

ScholarID: 2SSTD-IAAAA

ORCID: 0000-0002-9689-2239

Publons / Web Of Science ResearcherID: B-8759-2017

ScopusID: 57223135603

Yoksis Researcher ID: 48485

Education Information

Post Doctorate, Otto-von-Guericke-Universitaet Magdeburg, Max Planck Institute for Dynamics of Complex Technical Systems , Molecular Simulations and Design , Germany 2021 - 2022

Doctorate, Ankara University, Institute Of Biotechnology, Department Of Biotechnology, Turkey 2013 - 2018

Postgraduate, Ankara University, Institute Of Biotechnology, Department Of Biotechnology, Turkey 2011 - 2013

Undergraduate, Ege University, Faculty Of Engineering, Biyomühendislik Bölümü, Turkey 2007 - 2011

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Alzheimer Hastalığının Tedavisine Yönelik Yeni Önder Bileşiklerin Geliştirilmesi, Ankara University, Biyoteknoloji Enstitüsü, Temel Biyoteknoloji , 2018

Postgraduate, Farklı Pamuk Çeşitlerinde In Vitro Sürgün Rejenerasyonu, Ankara University, Biyoteknoloji Enstitüsü, Temel Biyoteknoloji, 2013

Research Areas

Life Sciences, Biotechnology, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, BİYOMÜHENDİSLİK, 2018 - Continues

Research Assistant, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, BİYOMÜHENDİSLİK, 2012 - 2018

Academic and Administrative Experience

Deputy Head of Department, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ,
BİYOMÜHENDİSLİK, 2020 - Continues

Courses

Genetik ve Biyomühendislikte Güncel Konular, Postgraduate, 2020 - 2021

Mühendislikte Biyokimya, Undergraduate, 2020 - 2021

Uzmanlık Alan Dersi 2, Postgraduate, 2020 - 2021

Biyomolokelüler Dinamik Ve Simülasyon, Postgraduate, 2020 - 2021

Stokiyometri, Undergraduate, 2020 - 2021

Biyofizik, Undergraduate, 2019 - 2020

Uzmanlık Alan Dersi 1, Postgraduate, 2020 - 2021

Advising Theses

Yalçın Özkat G., Development of new leader compounds for the treatment of multiple sclerosis, Postgraduate,
B.HUYLU(Student), 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Determination of Novel SARS-CoV-2 Inhibitors by Combination of Machine Learning and Molecular Modeling Methods**
Güner E., Özkan Ö., YALÇIN ÖZKAT G., Ölgen S.
Medicinal Chemistry, vol.20, no.2, pp.153-231, 2024 (SCI-Expanded)
- II. **Design, synthesis, and computational studies of benzimidazole derivatives as new antitubercular agents**
Yalcin-Ozkat G., Ersan R. H., ÜLGER M., TEZCAN ÜLGER S., BURMAOĞLU S., YILDIZ İ., ALGÜL Ö.
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.41, no.7, pp.2667-2686, 2023 (SCI-Expanded)
- III. **Synthesis, Biological Activities, Antioxidant Properties, and Molecular Docking Studies of Novel Bis-Schiff Base Podands as Responsive Chemosensors for Anions**
Yapar G., Demir N., Kiraz A., Yalçın Özkat G., Yildiz M.
JOURNAL OF MOLECULAR STRUCTURE, vol.1266, 2022 (SCI-Expanded)
- IV. **Computational studies with flavonoids and terpenoids as BRPF1 inhibitors: in silico biological activity prediction, molecular docking, molecular dynamics simulations, MM/PBSA calculations**
Yalcin-Ozkat G.
SAR AND QSAR IN ENVIRONMENTAL RESEARCH, vol.33, no.7, pp.533-550, 2022 (SCI-Expanded)
- V. **Synthesis, molecular docking and some metabolic enzyme inhibition properties of biphenyl-substituted chalcone derivatives**
BURMAOĞLU S., KAZANCIOĞLU E. A., KAZANCIOĞLU M. Z., Sağlamtas R., YALÇIN ÖZKAT G., GÜLÇİN İ., ALGÜL Ö.
JOURNAL OF MOLECULAR STRUCTURE, vol.1254, 2022 (SCI-Expanded)
- VI. **In Silico Studies to Develop New GSK3 beta Inhibitors Effective in the 's Disease**
Ozkat G., YILDIZ İ.
LETTERS IN DRUG DESIGN & DISCOVERY, vol.19, no.8, pp.691-705, 2022 (SCI-Expanded)
- VII. **Molecular Modeling Strategies of Cancer Multidrug Resistance**
Yalcin-Ozkat G.
DRUG RESISTANCE UPDATES, vol.59, 2021 (SCI-Expanded)
- VIII. **Discovery of 5-(or 6)-benzoxazoles and oxazolo[4,5-b]pyridines as novel candidate antitumor agents targeting hTopo II alpha**

Karatas E., Foto E., Ertan-Bolelli T., Yalcin-Ozkat G., Yilmaz S., Ataei S., Zilifdar F., Yildiz I.
BIOORGANIC CHEMISTRY, vol.112, 2021 (SCI-Expanded)

- IX. **Design, synthesis and biological evaluation of novel bischalcone derivatives as potential anticancer agents**
Burmaoğlu S., Gobek A., Aydın B. O., Yurtoglu E., Aydın B. N., Ozkat G., Hepokur C., Şimşek Özek N., Aysin F., Altundaş R., et al.
BIOORGANIC CHEMISTRY, vol.111, 2021 (SCI-Expanded)
- X. **Spectroscopic, quantum mechanical studies, ligand protein interactions and photovoltaic efficiency modeling of some bioactive benzothiazolinone acetamide analogs**
Mary Y. S., Yalcin G., Mary Y. S., Resmi K. S., Thomas R., ÖNKOL T., Kasap E. N., YILDIZ İ.
CHEMICAL PAPERS, vol.74, no.6, pp.1957-1964, 2020 (SCI-Expanded)
- XI. **Synthesis and molecular docking studies of some novel antimicrobial benzamides**
Acar C., Yalcin G., Ertan-Bolelli T., KAYNAK ONURDAĞ F., ÖKTEN S., Sener F., YILDIZ İ.
BIOORGANIC CHEMISTRY, vol.94, 2020 (SCI-Expanded)
- XII. **Molecular docking studies on fluoro-substituted chalcones as potential DprE1 enzyme inhibitors**
Yalcin G., BURMAOĞLU S., Yildiz I., Algul O.
JOURNAL OF MOLECULAR STRUCTURE, vol.1164, pp.50-56, 2018 (SCI-Expanded)
- XIII. **Molecular dynamics, thermodynamic, and mutational binding studies for tumor-specific LyP-1 in complex with p32.**
TIMUR S., Yalçın G., ÇEVİK Ö., ANDAÇ C., GÜRSOY R.
Journal of biomolecular structure & dynamics, vol.36, pp.1134-1144, 2018 (SCI-Expanded)
- XIV. **Determination of Antibiotic Resistance and Pulsed-Field Gel Electrophoresis Profiles for the Extended-Spectrum beta-Lactamase Producing Escherichia coli**
Ozer T. T., KARAGÖZ A., Yalcin G., Andac C. A.
JUNDISHAPUR JOURNAL OF MICROBIOLOGY, vol.11, no.3, 2018 (SCI-Expanded)
- XV. **Modification of benzoxazole derivative by bromine-spectroscopic, antibacterial and reactivity study using experimental and theoretical procedures**
Aswathy V. V., ALPER-HAYTA S., Yalcin G., Mary Y. S., PANICKER C. Y., JOJO P. J., Kaynak-Onurdag F., ARMAKOVIC S., ARMAKOVIC S. J., Yildiz I., et al.
JOURNAL OF MOLECULAR STRUCTURE, vol.1141, pp.495-511, 2017 (SCI-Expanded)
- XVI. **Vibrational spectroscopic analysis, molecular dynamics simulations and molecular docking study of 5-nitro-2-phenoxyethyl benzimidazole**
MENON V. V., Foto E., MARY Y. S., Karatas E., PANICKER C. Y., Yalcin G., ARMAKOVIC S., ARMAKOVIC S. J., VAN ALSENOY C., Yildiz I.
JOURNAL OF MOLECULAR STRUCTURE, vol.1129, pp.86-97, 2017 (SCI-Expanded)

Articles Published in Other Journals

- I. **Molecular binding profile of protoberberine alkaloids on glycogen synthase kinase 3 β as a drug candidate for alzheimer's diseases Alzheimer hastalığında ilaç adayı olarak protoberberin alkoitlerinin glikojen sentaz kinaz 3 β ile moleküler bağlanma profilleri**
Yalcin G., Yildiz I.
Ankara Üniversitesi Eczacılık Fakültesi Dergisi, vol.42, no.3, pp.1-12, 2018 (Scopus)
- II. **Characterisation of drug resistance of nosocomial ESBL-producing E. coli isolates obtained from a Turkish university hospital between 2009 and 2012 by pulsed field gel electrophoresis and antibiotic resistance tests.**
KARAGÖZ A., SUNNETCIOĞLU M., CEYLAN M., BAYRAM Y., Yalcin G., KOCAK N., SUVAK B., ANDAC C.
Le infezioni in medicina, vol.24, pp.24-31, 2016 (Scopus)
- III. **Current Trends In Fenugreek Biotechnology And Approaches Towards Its Improvement**
Aasim M., Khawar K. M., YALÇIN G., Bakhsh A.

Books & Book Chapters

I. Hormonlar ve Endokrin Sistemi

AASIM M., SADİ G., YALÇIN G.

in: BİYOLOJİ - Biology Schaum's Dördüncü Baskıdan Çeviri, Mehmet Karataş, Editor, NOBEL Akademik Yayıncılık, pp.286-303, 2015

Refereed Congress / Symposium Publications in Proceedings

I. Some New Benzoxazoles as Topoisomerase II Inhibitors²

YILDIZ İ., Karataş E., FOTO E., YALÇIN G., ZİLİFDAR FOTO F., ERTAN BOLELLİ T.

Uluslararası Katılımlı 5. İlaç Kimyası Kongresi, 30 March - 02 April 2017

II. Molecular Docking Analysis of New Antibacterial Lead Compounds for Staphylococcus aureus

YALÇIN G., acar c., YILDIZ İ.

Eurasian Congress on Molecular Biotechnology, 19 - 21 September 2019

III. Glikojen Sentaz Kinaz 3 Beta İnhibitörleri Üzerine Hesaplamalı Farmakofor Modelleme Çalışmaları

YALÇIN G.

16. Ulusal Tıbbi Biyoloji ve Genetik Kongresi, 27 - 30 October 2019

IV. Some New Oxazolo[4,5-b]pyridines as Topoisomerase II α Inhibitors

YILDIZ İ., Karataş E., FOTO E., YALÇIN G., Ataei S., ERTAN BOLELLİ T., ZİLİFDAR FOTO F.

7th Drug Chemistry Conference, Antalya/Kemer, Turkey, 14 - 17 March 2019

V. Some New Topoisomerase II Inhibitors

YILDIZ İ., KARATAS E., FOTO E., YALÇIN G., ATAEİ S., ERTAN BOLELLİ T., ZİLİFDAR F.

4th International Turkic World Conference on Chemical Sciences and Technologies, Kiev, Ukraine, 7 - 10 September 2018, pp.127

VI. Computational studies on glycogen synthase kinase 3 beta inhibitors

YALÇIN G., YILDIZ İ.

International Chemistry Biology Conference'18, Şarm El-Seyh, Egypt, 11 - 14 July 2018, pp.153

VII. Molecular Binding Profile of Protoberberine Alkaloids on Receptor for Advanced Glycation Endproducts (RAGE) as a Drug Candidate for Alzheimer's Diseases

YALÇIN G., DOĞRU B., YILDIZ İ.

International Chemistry Biology Conference'18, Şarm El-Seyh, Egypt, 11 - 14 July 2018, pp.154

VIII. Glycogen Synthase Kinase 3 Beta inhibition by several acetylcholinesterase inhibitors

YALÇIN G., DOĞRU B., YILDIZ İ.

4th International Turkic World Conference on Chemical Sciences and Technologies, Kiev, Ukraine, 7 - 10 September 2018, pp.145

IX. Investigation of Beta-secretase 1 Enzyme inhibition with known acetylcholinesterase inhibitors

YALÇIN G., YILDIZ İ.

4th International Turkic World Conference on Chemical Sciences and Technologies, Kiev, Ukraine, 7 - 10 September 2018, pp.146

X. Molecular binding profile of protoberberine alkaloids on glycogen synthase kinase 3 β as a drug candidate for Alzheimer's diseases

YALÇIN G., YILDIZ İ.

7th International Molecular Biology and Biotechnology Congress, Konya, Turkey, 25 April - 27 September 2018, pp.42

XI. DprE1-Benzimidazole derivatives interactions using molecular modelling

YALÇIN G., ERSAN R. H., ALGÜL Ö., YILDIZ İ.

Uluslar arası Katılımlı 6. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, Antalya, Turkey, 22 - 25 March 2018, pp.120

XII. Computational studies for drug design on beta-secretase 1 inhibition

YALÇIN G., YILDIZ İ.

Uluslar arası Katılımlı 6. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, Antalya, Turkey, 22 - 25 March 2018, pp.119

XIII. Development of new lead BACE1 enzyme inhibitors

YALÇIN G., YILDIZ İ.

5th International BAU Drug Design Congress, 19 - 21 October 2017, pp.43

XIV. Protoberberine alkaloids as a drug candidate for Alzheimer's Diseases

YALÇIN G., YILDIZ İ.

2nd International Gazi Pharma Symposium, 11 - 13 October 2017, pp.254

XV. Pharmacophore Generation Studies for Developing of Potential BACE1 Enzyme Inhibitors

YALÇIN G., YILDIZ İ.

3rd International Turkic World Conference on Chemical Sciences and Technologies, 10 - 13 September 2017, pp.304

XVI. Molecular modelling studies on glycogen synthase kinase 3B inhibitors for Alzheimer's Diseases

YALÇIN G., YILDIZ İ.

2nd International Gazi Pharma Symposium, 11 - 13 October 2017, pp.253

XVII. Molecular modelling studies on Glycogen Synthase Kinase 3 β Inhibitors for Alzheimer's Diseases

YALÇIN G., YILDIZ İ.

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

XVIII. Pharmacophore Generation Studies for the Discovery of Potential BACE1 Enzyme Inhibitors

YALÇIN G., YILDIZ İ.

3rd International Turkic World Conference on Chemical Sciences Technologies, 10 - 13 September 2017

XIX. New nitro-benzoxazoles as antitumor agents targeting htopo II

KARATAS E., FOTO E., YALÇIN G., ZİLİFDAR F., ERTAN BOLELLİ T., YILDIZ İ.

17th Hellenic Symposium on Medicinal Chemistry (Designing targeted and safer drugs), Thessaloniki, Greece, 1 - 03 June 2017

XX. Some New Benzoxazoles as Topoisomerase II Inhibitors

YILDIZ İ., KARATAS E., FOTO E., YALÇIN G., ZİLİFDAR F., ERTAN BOLELLİ T.

Uluslararası Katılımlı 5. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, Antalya, Turkey, 30 March - 02 April 2017

XXI. Molecular Docking Studies on Some Benzimidazole Derivatives as Possible Decaprenylphosphoryl-D-ribose oxidase Enzyme Inhibitors

YALÇIN G., ERSAN R. H., YILDIZ İ., ALGÜL Ö.

5. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, 30 March - 02 April 2017

XXII. Molecular Docking Studies on Some Benzimidazole Derivatives as Possible Decaprenylphosphoryl-D-ribose oxidase Enzyme Inhibitors

YALÇIN G., Ersan R. H., YILDIZ İ., ALGÜL Ö.

Uluslararası Katılımlı 5. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyon Kongresi, 30 March - 02 April 2017, pp.210

XXIII. Molecular binding profile of protoberberine alkaloids on amyloid precursor proteincleaving enzyme 1 (BACE1) as a drug candidate for Alzheimer's diseases

YALÇIN G., YILDIZ İ.

41th FEBS CONGRESS The Biochemical Basis of Life, 23 September 2016, vol.283, pp.232

XXIV. Pharmacophore Generation Studies For The Discovery Of Potential Acetylcholinesterase Inhibitors

YALÇIN G., YILDIZ İ.

3rd INTERNATIONALBAU-DRUG DESIGN CONGRESS, 01 October 2015

XXV. Inverse-agonistic mechanisms of thioridazine on Gi protein-coupled D2L dopamine receptors

- YALÇIN G., ANDAC C. A.
40th FEBS CONGRESS The Biochemical Basis of Life, Berlin, Germany, 04 July 2015, vol.282, pp.365
- XXVI. **DOP-3 Homology Modelling and Explicit Solvent Molecular Dynamics of Stimulated Human Gi-coupled D2 Dopamine Receptor in a Membrane System**
YALÇIN G., ANDAC C. A.
2nd INTERNATIONALBAU-DRUG DESIGN SYMPOSIUM, 17 October 2014
- XXVII. **DETERMINATION OF BINDING PROPERTIES OF BUTACLAMOL IN COMPLEX WITH A MEMBRANE-BOUND HUMANGI-COUPLED D2L DOPAMINE RECEPTOR**
YALÇIN G., ANDAC C. A.
8-th Eurasian Meeting on Heterocyclic Chemistry (EAMHC-2014), Tiflis, Georgia, 20 September 2014
- XXVIII. **ALA-SCAN mutational analysis on the agonist binding state of human Gi-coupled D2L dopamine receptor complex**
YALÇIN G.
Workshop and Summer School on Protein Structure, Function, and Dynamics, 14 September 2014
- XXIX. **Bütaclamolün İnsan Gi Proteini ve D2L Dopamin Reseptör Kompleksindeki Bağlanma Özelliklerinin Membran Simülasyonlarıyla Belirlenmesi**
YALÇIN G., CENK A A.
8. Ulusal Afinité Teknikleri Kongresi, Konya, Turkey, 04 September 2014, pp.29

Supported Projects

- Yalçın Özkat G., Yıldız İ., Yılmaz S., Project Supported by Other Official Institutions, hTopo IIA Enzim Hedefli Yeni Bazı Antitümör Etkili Benzoksazol ve Benzimidazol Türevlerinin Geliştirilmesi, 2023 - 2025
- Yalçın Özkat G., Özil M., Seyrantepe V., TÜBİTAK - AB COST Project, Innovation with Glycans: new frontiers from synthesis to new biological targets (INNOGLY), 2019 - 2023
- Yalçın Özkat G., TUBITAK Project, Alzheimer Hastalığında In Silico İlaç Geliştirme Çalışmalarına Kuantum Mekanik Yaklaşımlar, 2021 - 2022
- Yalçın Özkat G., Erbaş Çakmak S., TÜBİTAK - AB COST Project, New diagnostic and therapeutic tools against multidrug resistant tumors (STRATAGEM), 2018 - 2022

Metrics

- Publication: 49
Citation (WoS): 144
Citation (Scopus): 163
H-Index (WoS): 8
H-Index (Scopus): 8

Scholarships

- Genç Bilim İnsanı 2018(FEBS Young Scientist), Other International Organizations, 2018 - Continues
Post-Doctorate Research Fellowship from TUBITAK (The Scientific and Technological Research Council of Turkey) through funding programme 2219/1, TUBITAK, 2021 - 2022