

# Prof. ÖZTEKİN ALGÜL

## Personal Information

Office Phone: [+90 446 224 5344](tel:+904462245344)

Email: [oztekin.algul@erzincan.edu.tr](mailto:oztekin.algul@erzincan.edu.tr)

Web: <https://avesis.ebyu.edu.tr/oztekin.algul>

## International Researcher IDs

ORCID: 0000-0001-5685-7511

Publons / Web Of Science ResearcherID: N-3043-2019

Yoksis Researcher ID: 17950

## Education Information

Doctorate, Gazi University, Sağlık Bilimleri Enstitüsü, -, Turkey 1994 - 2000

Postgraduate, Gazi University, Sağlık Bilimleri Enstitüsü, Turkey 1991 - 1994

Undergraduate, Gazi University, Eczacılık Fakültesi, Turkey 1986 - 1991

## Foreign Languages

English, C1 Advanced

## Certificates, Courses and Trainings

Education Management and Planning, Eğitimcilerin Eğitimi, Erzincan Binali Yıldırım Üniversitesi, 2021

## Dissertations

Doctorate, Bazı 1,2-Disübstitüe Benzimidazol Türevlerinin Platin(II) Kompleksleri Üzerinde Çalışmalar, Erzincan Binali Yıldırım University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2000

Postgraduate, Bazı 5-Sübstitüe-2-Hidroksimetilbenzimidazol Türevlerinin Platin(II) Kompleksleri Üzerinde Çalışmalar, Erzincan Binali Yıldırım University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 1994

## Research Areas

Pharmaceutical Chemistry

## Academic Titles / Tasks

Professor, Erzincan Binali Yıldırım University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2021 - Continues

## Courses

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

- I. **Structure-based inhibition of acetylcholinesterase and butyrylcholinesterase with 2-Aryl-6-carboxamide benzoxazole derivatives: synthesis, enzymatic assay, and in silico studies**  
Kuzu B., ALAGÖZ M. A., Demir Y., GÜLÇİN İ., BURMAOĞLU S., Algul O.  
Molecular Diversity, vol.29, no.1, pp.671-693, 2025 (SCI-Expanded)
- II. **Exploring new 5-Nitroimidazole Derivatives as Potent Acetylcholinesterase and Butyrylcholinesterase Enzyme Inhibitors**  
Gursoy Ş., Satici D., Kuzu B., Turkmenoglu B., Dilek E., Algul Ö.  
Chemistry and Biodiversity, vol.21, no.10, 2024 (SCI-Expanded)
- III. **From Deep Learning to the Discovery of Promising VEGFR-2 Inhibitors**  
YÜCEL M. A., Adal E., Aktekin M. B., Hepokur C., Gambacorta N., Nicolotti O., ALGÜL Ö.  
ChemMedChem, vol.19, no.16, 2024 (SCI-Expanded)
- IV. **Investigation of Some Metabolic Enzyme Inhibition Properties of Novel Chalcone-Cu Complexes**  
Ebiri R., Turgut M., Aktas Anil D., Demir Y., Sağlantas R., Abdullah Alagoz M., Algul O., BURMAOĞLU S.  
ChemistrySelect, vol.9, no.27, 2024 (SCI-Expanded)
- V. **Hydrazide-Bridged Pyridazines for Cholinesterase Inhibitors: Synthesis, Characterizations, In Silico, and In Vitro Evaluation**  
Gürsoy Ş., Taşkor Önel G., Türkmenoğlu B., Bozbey Merde İ., Dilek E., Özsoy C., Algül Ö.  
CHEMISTRYSELECT, vol.9, no.e202400085, pp.1-12, 2024 (SCI-Expanded)
- VI. **Assessing the Antiangiogenic Effects of Chalcones and Their Derivatives**  
BURMAOĞLU S., Gobek A., ANIL D., ALAGÖZ M. A., Guner A., Güler C., Hepokur C., Karabay Yavasoglu N. U., Algul O.  
Polycyclic Aromatic Compounds, vol.44, no.1, pp.51-66, 2024 (SCI-Expanded)
- VII. **Deep learning approach to the discovery of novel bisbenzazole derivatives for antimicrobial effect**  
Barcin T., Yücel M. A., Ersan R. H., Alagoz M. A., Dogen A., Burmaoglu S., Algul O.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1295, pp.136668-136679, 2024 (SCI-Expanded)
- VIII. **Machine learning study: from the toxicity studies to tetrahydrocannabinol effects on Parkinson's disease**  
YÜCEL M. A., Ozcelik İ., ALGÜL Ö.  
Future medicinal chemistry, vol.15, no.4, pp.365-377, 2023 (SCI-Expanded)
- IX. **2-Phenyl substituted Benzimidazole derivatives: Design, synthesis, and evaluation of their antiproliferative and antimicrobial activities**  
Ersan R. H., Kuzu B., Yetkin D., ALAGÖZ M. A., Dogen A., BURMAOĞLU S., Algul O.  
Medicinal Chemistry Research, vol.31, no.7, pp.1192-1208, 2022 (SCI-Expanded)
- X. **Synthesis, molecular docking and some metabolic enzyme inhibition properties of biphenyl-substituted chalcone derivatives**  
BURMAOĞLU S., Kazancioglu E. A., Kazancioglu M. Z., Sağlantaş R., Yalcin G., GÜLÇİN İ., Algul O.  
Journal of Molecular Structure, vol.1254, 2022 (SCI-Expanded)
- XI. **Synthesis, Biological Evaluation and In Silico Studies of Some 2-Substituted Benzoxazole Derivatives as Potential Anticancer Agents to Breast Cancer**  
Kuzu B., Hepokur C., ALAGÖZ M. A., BURMAOĞLU S., Algul O.  
ChemistrySelect, vol.7, no.1, 2022 (SCI-Expanded)
- XII. **Bisbenzoxazole Derivatives: Design, Synthesis, in Vitro Antimicrobial, Antiproliferative Activity, and Molecular Docking Studies**  
Ersan R. H., ALAGÖZ M. A., Dogen A., Duran N., BURMAOĞLU S., Algul Ö.  
POLYCYCLIC AROMATIC COMPOUNDS, vol.42, no.6, pp.3103-3123, 2022 (SCI-Expanded)
- XIII. **Synthesis, In Vitro Biological Evaluation, and Molecular Docking Studies of Novel Biphenyl Chalcone**

### **Derivatives as Antimicrobial Agents**

BURMAOĞLU S., Kazancioglu E. A., Kazancioglu M. Z., ALAGÖZ M. A., Dogen A., Algul Ö.  
POLYCYCLIC AROMATIC COMPOUNDS, vol.42, no.9, pp.5948-5961, 2022 (SCI-Expanded)

- XIV. **Design, synthesis and antiproliferative activity evaluation of fluorine-containing chalcone derivatives**  
BURMAOĞLU S., ANIL D., Gobek A., KILIÇ D., Yetkin D., Duran N., Algul Ö.  
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.40, no.8, pp.3525-3550, 2022 (SCI-Expanded)
- XV. **Revisit to the synthesis of 1,2,3,4-tetrasubstituted pyrrole derivatives in lactic acid media as a green solvent and catalyst**  
AKBAŞLAR D., Giray E. S., Algul Ö.  
MOLECULAR DIVERSITY, vol.25, no.4, pp.2321-2338, 2021 (SCI-Expanded)
- XVI. **Bisbenzimidazole Derivatives as Potential Antimicrobial Agents: Design, Synthesis, Biological Evaluation and Pharmacophore Analysis**  
Ersan R. H., BOLELLİ K., Gonca S., Dogen A., BURMAOĞLU S., Algul Ö.  
PHARMACEUTICAL CHEMISTRY JOURNAL, vol.55, no.2, pp.149-158, 2021 (SCI-Expanded)
- XVII. **Synthesis of Benzoxazole-2-carboxylate Derivatives: Electronic- and Position-effect of Functional Groups and Computational Modeling of the Selectivity for Oxazole Ring**  
Kuzu B., Sari O., ERDEM S., Algul Ö., Mengeş N.  
CHEMISTRYSELECT, vol.6, no.10, pp.2529-2538, 2021 (SCI-Expanded)
- XVIII. **One-pot synthesis of novel benzimidazoles with a naphthalene moiety as antimicrobial agents and molecular docking studies**  
Ersan R. H., Yuksel A., Ertan-Bolelli T., Dogen A., BURMAOĞLU S., Algul Ö.  
JOURNAL OF THE CHINESE CHEMICAL SOCIETY, vol.68, no.2, pp.374-383, 2021 (SCI-Expanded)
- XIX. **Investigation of New Benzimidazole Derivative Compounds' Effects on A549 Cell Line**  
Duran G. G., Kucuk M. U., Algul Ö., Terzi M. Y.  
BRAZILIAN ARCHIVES OF BIOLOGY AND TECHNOLOGY, vol.63, 2020 (SCI-Expanded)
- XX. **Synthesis of New Alicyclic Oxalamide Derivatives and Their Differential Immunomodulatory Activities on the Mammalian Cells**  
Kuzu B., Ayaz F., Algul Ö.  
JOURNAL OF HETEROCYCLIC CHEMISTRY, vol.56, no.7, pp.1946-1952, 2019 (SCI-Expanded)
- XXI. **Symmetric bis-benzoxazole-based chemicals exerted anti-inflammatory effect on danger signal LPS-stimulated macrophages**  
Ayaz F., Ersan R. H., Algul Ö.  
MONATSHEFTE FÜR CHEMIE, vol.150, no.6, pp.1137-1146, 2019 (SCI-Expanded)
- XXII. **Bisbenzoxazole derivatives had an antiinflammatory effect on in vitro stimulated macrophages**  
Ayaz F., Kheeree R., Isse Q. A., Ersan R. H., Algul Ö.  
TURKISH JOURNAL OF CHEMISTRY, vol.43, no.3, pp.963-977, 2019 (SCI-Expanded)
- XXIII. **Molecular docking studies on fluoro-substituted chalcones as potential DprE1 enzyme inhibitors**  
Yalcin G., BURMAOĞLU S., Yildiz I., Algul Ö.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1164, pp.50-56, 2018 (SCI-Expanded)
- XXIV. **Synthesis and biological evaluation of phloroglucinol derivatives possessing -glycosidase, acetylcholinesterase, butyrylcholinesterase, carbonic anhydrase inhibitory activity**  
BURMAOĞLU S., YILMAZ A. B., Taslimi P., Algul Ö., Kilic D., GÜLÇİN İ.  
ARCHIV DER PHARMAZIE, vol.351, no.2, 2018 (SCI-Expanded)
- XXV. **Design of potent fluoro-1substituted chalcones as antimicrobial agents**  
Burmaoglu S., Algul Ö., Gobek A., Anil D. A., Ulger M., Erturk B. G., Kaplan E., Dogen A., Aslan G.  
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.32, no.1, pp.490-495, 2017 (SCI-Expanded)
- XXVI. **Synthesis and anti-proliferative activity of fluoro-substituted chalcones**  
Burmaoglu S., ALGUL Ö., ANIL D., GOBEK A., DURAN G., ERSAN R., DURAN N.  
BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, vol.26, no.13, pp.3172-3176, 2016 (SCI-Expanded)
- XXVII. **Synthesis, cytotoxicity and carbonic anhydrase inhibitory activities of new pyrazolines**

- Kucukoglu K., Oral F., Aydin T., Yamali C., Algul Ö., Sakagami H., GÜLÇİN İ., Supuran C. T., GÜL H. İ.  
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.31, pp.20-24, 2016 (SCI-Expanded)
- XXVIII. **Synthesis and Antifungal Evaluation of 1-Aryl-2-dimethylaminomethyl-2-propen-1-one Hydrochlorides**  
METE E., GÜL H. İ., Bilginer S., Algul Ö., Topaloglu M. E., GÜLLÜCE M., KAZAZ C.  
MOLECULES, vol.16, no.6, pp.4660-4671, 2011 (SCI-Expanded)
- XXIX. **2-(4-Methoxy-2-methylanilino)-1,2-diphenylethanone**  
Arslan H., Algul Ö., Zirek S., Tari O., Demircan A., Hardcastle K. I.  
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.67, 2011 (SCI-Expanded)
- XXX. **2,4-Diamino-5-(2'-arylpropargyl)pyrimidine derivatives as new nonclassical antifolates for human dihydrofolate reductase inhibition**  
Algul Ö., Paulsen J. L., Anderson A. C.  
JOURNAL OF MOLECULAR GRAPHICS & MODELLING, vol.29, no.5, pp.608-613, 2011 (SCI-Expanded)
- XXXI. **Comparative studies on conventional and microwave-assisted synthesis of a series of 2,4-di and 2,3,4-trisubstituted benzimidazol[1,2-a] pyrimidines and their antimicrobial activities**  
Algul Ö., Meric A., Polat S., Yuksek N. D., Serin M. S.  
CENTRAL EUROPEAN JOURNAL OF CHEMISTRY, vol.7, no.3, pp.337-342, 2009 (SCI-Expanded)
- XXXII. **Vibrational spectroscopy investigation using ab initio and density functional theory analysis on the structure of 3-(6-benzoyl-2-oxobenzo[d]oxazol-3(2H)-yl)propanoic acid**  
Arslan H., Algul Ö., Onkol T.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.70, no.3, pp.606-614, 2008 (SCI-Expanded)
- XXXIII. **Vibrational spectrum and assignments of 2-(4-methoxyphenyl)-1 H-benzo[d]imidazole by ab initio Hartree-Fock and density functional methods**  
Arslan H., Algul Ö.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.70, no.1, pp.109-116, 2008 (SCI-Expanded)
- XXXIV. **Design, synthesis and biological evaluation of bis(hydroxyphenyl) azoles as potent and selective non-steroidal inhibitors of 17 beta-hydroxysteroid dehydrogenase type 1 (17 beta-HSD1) for the treatment of estrogen-dependent diseases**  
Bey E., Marchais-Oberwinkler S., Kruchten P., Frotscher M., Werth R., Oster A., Algul Ö., Neugebauer A., Hartmann R. W.  
BIOORGANIC & MEDICINAL CHEMISTRY, vol.16, no.12, pp.6423-6435, 2008 (SCI-Expanded)
- XXXV. **Comparative studies on conventional and microwave synthesis of some benzimidazole, benzothiazole and indole derivatives and testing on inhibition of hyaluronidase**  
Algul Ö., Kaessler A., Apcin Y., Yilmaz A., Jose J.  
MOLECULES, vol.13, no.4, pp.736-748, 2008 (SCI-Expanded)
- XXXVI. **Synthesis and Ab Initio/DFT Studies on 2-(4-methoxyphenyl)benzo[d]thiazole**  
Arslan H., Algul Ö.  
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol.8, no.8, pp.760-776, 2007 (SCI-Expanded)
- XXXVII. **Activity of bisbenzimidazoles derivatives to Staphylococcus epidermidis**  
Algul Ö., Duran N.  
ASIAN JOURNAL OF CHEMISTRY, vol.19, no.4, pp.3145-3151, 2007 (SCI-Expanded)
- XXXVIII. **Synthesis and evaluation of antimicrobial activity of some 1,5(6)-H/or -methyl-2-substituted benzimidazole derivatives**  
Algul Ö., Duran N., Gulbol G.  
ASIAN JOURNAL OF CHEMISTRY, vol.19, no.4, pp.3085-3092, 2007 (SCI-Expanded)
- XXXIX. **Structural and spectral studies on 3-(6-benzoyl-5-chloro-2-benzoxazolinon-3-yl) propanoic acid**  
Arslan H., Algul Ö., Dundar Y.  
VIBRATIONAL SPECTROSCOPY, vol.44, no.2, pp.248-255, 2007 (SCI-Expanded)
- XL. **Theoretical studies of molecular structure and vibrational spectra of 2-ethyl-1H-benzo[d]imidazole**

- Arslan H., Algul Ö.  
ASIAN JOURNAL OF CHEMISTRY, vol.19, no.3, pp.2229-2235, 2007 (SCI-Expanded)
- XLII. **A microplate based screening of benzimidazole derivatives on hyaluronidase inhibition at PH 7 and 3.5**  
Kaessler A., Algul Ö., Jose J.  
LETTERS IN DRUG DESIGN & DISCOVERY, vol.4, no.8, pp.562-569, 2007 (SCI-Expanded)
- XLII. **Synthesis, characterization and genotoxicity of platinum(II) complexes with substituted benzimidazole ligands**  
Algul Ö., Ozcelik B., Abbasoglu U., Gumus F.  
TURKISH JOURNAL OF CHEMISTRY, vol.29, no.6, pp.607-615, 2005 (SCI-Expanded)
- XLIII. **Synthesis, cytotoxic activity on MCF-7 cell line and mutagenic activity of platinum(II) complexes with 2-substituted benzimidazole ligands**  
Gumus F., Algul Ö., EREN G., Eorglu H., Diril N., Gur S., Ozkul A.  
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.38, no.5, pp.473-480, 2003 (SCI-Expanded)
- XLIV. **DNA binding studies with cis-dichlorobis (5(6)-non/chlorosubstituted-2-hydroxymethyl-benzimidazole) platinum(II) complexes**  
Gumus F., Algul Ö.  
JOURNAL OF INORGANIC BIOCHEMISTRY, vol.68, no.1, pp.71-74, 1997 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Synthesis and antitubercular activities of acetamide-substituted benzazole derivatives**  
GÜRSOY Ş., Öztürk E. Ş., Zoatier B., ÜLGER M., ALGÜL Ö.  
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.17, 2024 (Peer-Reviewed Journal)
- II. **Novel oxalamide derivatives for COXs expression and breast cancer: design, synthesis, biological evaluation, and docking studies**  
Kuzu B., Hepokur C., Algul O.  
Organic Communications, vol.16, no.3, pp.152-165, 2023 (ESCI)
- III. **Immunomodulatory and immunostimulatory effects of some bisbenzoxazole derivatives on lipopolysaccharide stimulated mammalian macrophages**  
Ayaz F., Isse Q. A., Kheeree R., Ersan R. H., Algul Ö.  
JOURNAL OF RESEARCH IN PHARMACY, vol.23, no.5, pp.944-951, 2019 (ESCI)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Synthesis of Chalcone-Pyrrol Hybrid Derivatives and Investigation of Their Antiproliferative Effects**  
Gürsoy Ş., Yücel M. A., Yıldıztekin K. G., Türkmenoğlu B., Polat M. F., Algül Ö.  
12. International Drug Chemistry Conference, Antalya, Turkey, 7 - 10 March 2024, pp.104-108
- II. **Synthesis of Benzoxazole Derivatives and Investigation of Their mTOR Inhibitor Activities**  
Çolak S., Gürsoy Ş., Kuzu B., Türkmenoğlu B., Burmaoğlu S., Algül Ö.  
12. International Drug Chemistry Conference, Antalya, Turkey, 7 - 10 March 2024, pp.104-108
- III. **Screening of JAK-2 Inhibitors with Machine Learning**  
YÜCEL M. A., ALGÜL Ö.  
2.Computer-Aided Drug Design Symposium and Workshop, İstanbul, Turkey, 11 - 12 May 2022
- IV. **Screening of  $\beta$ 2-Receptor Inhibitors with Machine Learning**  
YÜCEL M. A., ALGÜL Ö.  
10. İlaç Kimyası Kongresi, Antalya, Turkey, 10 March 2021, pp.96-99

## **Metrics**

Publication: 52

Citation (WoS): 615

Citation (Scopus): 590

H-Index (WoS): 14

H-Index (Scopus): 14

## **Non Academic Experience**

University of Connecticut, Arařtırmacı

Univiersity of Saarland, Bilimsel Arařtırmacı