

# **Prof. ÖZTEKİN ALGÜL**

## **Personal Information**

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## **International Researcher IDs**

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## **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, Eğiticilerin Eğitimi, Erzincan Binali Yıldırım Üniversitesi, 2021

## **Dissertations**

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

Postgraduate, Bazı 5-Sübstütüe-2-Hidroksimetilbenzimidazol Türevlerinin Platin(II) Kompeksleri 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. **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)
- II. **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, 2024 (SCI-Expanded)
- III. **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, 2024 (SCI-Expanded)
- IV. **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)
- V. **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)
- VI. **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)
- VII. **Synthesis, molecular docking and some metabolic enzyme inhibition properties of biphenyl-substituted chalcone derivatives**  
BURMAOĞLU S., Kazancioglu E. A., Kazancioglu M. Z., Sağlamtaş R., Yalcin G., GÜLÇİN İ., Algul O. Journal of Molecular Structure, vol.1254, 2022 (SCI-Expanded)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **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)
- XII. **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)

- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **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)
- XXIII. **Synthesis and anti-proliferative activity of fluoro-substituted chalcones**  
Burmaoglu S., ALGUL Ö., ANİL D., GOBEK A., DURAN G., ERSAN R., DURAN N.  
BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, vol.26, no.13, pp.3172-3176, 2016 (SCI-Expanded)
- XXIV. **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)
- XXV. **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)
- XXVI. **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)
- XXVII. **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)
- XXVIII. 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)
- XXIX. 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)
- XXX. 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., Alguel Ö., Neugebauer A., Hartmann R. W.  
BIOORGANIC & MEDICINAL CHEMISTRY, vol.16, no.12, pp.6423-6435, 2008 (SCI-Expanded)
- XXXI. 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)
- XXXII. 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)
- XXXIII. 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)
- XXXIV. 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)
- XXXV. 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)
- XXXVI. 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)
- XXXVII. 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)
- XXXVIII. 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)
- XXXIX. 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)
- XL. 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)

- XLI. **DNA binding studies with cis-dichlorobis (5(6)-nonchlorosubstituted-2-hydroxymethylbenzimidazole) 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. **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)

- II. **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. **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

- II. **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: 48

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