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Education Information

Post Doctorate, Martin-Luther-Universitaet Halle-Wittenberg, Institute of Pharmacy, Pharmaceutical Chemistry and Clinical Pharmacy, Germany 2023 - Continues

Doctorate, Ankara University, Institute Of Health Sciences, Farmasötik Kimya, Turkey 2014 - 2020

Undergraduate, Erciyes University, Eczacılık Fakültesi, Eczacılık, Turkey 2009 - 2014

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Pharmacology and Therapeutics, Pharmaceutical Chemistry

Academic Titles / Tasks

Associate Professor, Erciyes University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 2022 - Continues

Research Assistant, Erciyes University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 2015 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Synergistic effect of potential alpha-amylase inhibitors from Egyptian propolis with acarbose using in silico and in vitro combination analysis**
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- II. **In vitro anti-Helicobacter pylori, anti-urease and anti-gastric cancer activities of novel hydrazones**
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- III. **Synthesis, DFT Calculations, < i>In Silico</i> Studies, and Antimicrobial Evaluation of Benzimidazole-Thiadiazole Derivatives**

- İsik A., ACAR ÇEVİK U., Karayel A., Ahmad I., Patel H., ÇELİK İ., GÜL Ü. D., Bayazit G., BOSTANCI H. E., Kocak A., et al. ACS OMEGA, 2024 (SCI-Expanded)
- IV. **New Benzimidazole-Triazole Derivatives as Topoisomerase I Inhibitors: Design, Synthesis, Anticancer Screening, and Molecular Modeling Studies**
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- V. **Synthesis, Anticancer Activity, and In Silico Modeling of Alkylsulfonyl Benzimidazole Derivatives: Unveiling Potent Bcl-2 Inhibitors for Breast Cancer**
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- VI. **Detection of natural compounds by virtual screening, molecular docking and dynamics studies and evaluation of their effects on tau level <i>in vitro</i> Alzheimer's model**
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- VIII. **Attenuation of quorum sensing regulated virulence functions and biofilm of pathogenic bacteria by medicinal plant Artemisia annua and its phytoconstituent 1, 8-cineole**
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- IX. **Molecular insights into the anti-inflammatory activity of fermented pineapple juice using multimodal computational studies**
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- XII. **Computational biology and in vitro studies for anticipating cancer-related molecular targets of sweet wormwood (Artemisia annua)**
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- XIV. **In vitro and in silico guided identification of antimalarial phytoconstituent(s) in the root of Citrus maxima (Burm.) Merr.**
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- XV. **Design, synthesis, molecular docking and molecular dynamic studies of novel benzimidazole-thiazole**

- derivatives as potent and selective COX-2 inhibitors**
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- XVII. **An integrated strategy combining UPLC-MS/MS, chemometrics, molecular docking, and molecular dynamics simulation for metabolic profiling of onion (*Allium cepa L.*) cultivars and unravelling potential anti-COVID-19 metabolites**
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- XVIII. **Effects of algerian nettle (*Urtica dioica L.*) on benign prostatic hyperplasia and their mechanism of action elucidation: in vivo and in silico approaches.**
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- XIX. **The depsidones from marine sponge-derived fungus *Aspergillus unguis IB151* as an anti-MRSA agent: Molecular docking, pharmacokinetics analysis, and molecular dynamic simulation studies**
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- XX. **Epigallocatechin-3-Gallate Therapeutic Potential in Cancer: Mechanism of Action and Clinical Implications.**
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- XXIII. **Phytochemical Composition, In Vitro Antimicrobial, Antioxidant, and Enzyme Inhibition Activities, and In Silico Molecular Docking and Dynamics Simulations of *Centaurea lycaonica*: A Computational and Experimental Approach.**
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- XXIV. **Forecasting of potential anti-inflammatory targets of some immunomodulatory plants and their constituents using in vitro, molecular docking and network pharmacology-based analysis.**
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- XXV. **Exploring the structural, photophysical and optoelectronic properties of a diaryl heptanoid curcumin derivative and identification as a SARS-CoV-2 inhibitor**
Archana V. P., Armaković S. J., Armaković S., Çelik İ., Bhagyasree J., Dinesh Babu K., Rudrapal M., Divya I. S., Pillai R. R.
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- XXVI. **New benzimidazole-oxadiazole derivatives: Synthesis, α -glucosidase, α -amylase activity, and molecular modeling studies as potential antidiabetic agents**
ACAR ÇEVİK U., ÇELİK İ., PASHAYEVA L., FATULLAYEV H., BOSTANCI H. E., ÖZKAY Y., KAPLANCIKLI Z. A.

- Archiv der Pharmazie, vol.356, no.5, 2023 (SCI-Expanded)
- XXVII. **Study of nonlinear optical responses of phytochemicals of Clitoria ternatea by quantum mechanical approach and investigation of their anti-Alzheimer activity with in silico approach**
Lakhera S., Devlal K., Rana M., ÇELİK İ.
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- XXVIII. **New imidazole derivatives as aromatase inhibitor: Design, synthesis, biological activity, molecular docking, and computational ADME-Tox studies**
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- XXXII. **Synthesis, biological evaluation, and molecular modeling studies of new 1,3,4-thiadiazole derivatives as potent antimicrobial agents.**
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- XXXIII. **Vanillin-Based Indolin-2-one Derivative Bearing a Pyridyl Moiety as a Promising Anti-Breast Cancer Agent via Anti-Estrogenic Activity**
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- XXXV. **PD-1/PD-L1 and DNA Damage Response in Cancer**
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- XXXVI. **Computational Simulations Reveal the Synergistic Action of Phytochemicals of Morus alba to Exert Anti-Alzheimer Activity via Inhibition of Acetylcholinesterase and Glycogen Synthase Kinase-3 β**
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- XXXVII. **New 2-((2-(2,4-dinitrophenyl)hydrazineeylidene) derivatives: design, synthesis, in silico, and in vitro anticancer studies.**
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- XXXVIII. **Synthesis, molecular docking, molecular dynamics and evaluation of Drug-Likeness properties of the fused N-Formyl pyrazoline substituted new dehydroepiandrosterone derivatives**
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- XXXIX. **Design, synthesis, molecular modeling, DFT, ADME and biological evaluation studies of some new 1,3,4-oxadiazole linked benzimidazoles as anticancer agents and aromatase inhibitors**

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- XL. **COMPREHENSIVE ANALYSIS ON COTINUS COGGYGRIA SCOP. LEAVES: PHOTOCHEMICAL CHARACTERIZATION, BIOLOGICAL PROFILE AND DOCKING STUDIES**
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- XLI. **In Vitro and in Silico Evaluation of Some New 1H-Benzimidazoles Bearing Thiosemicarbazide and Triazole as Epidermal Growth Factor Receptor Tyrosine Kinase Inhibitor**
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- XLII. **DFT and MD investigations of the biomolecules of phenothiazine derivatives: interactions with gold and water molecules and investigations in search of effective drug for SARS-CoV-2.**
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- XLIII. **Identification and in-vitro analysis of potential proteasome inhibitors targeting PSM β 5 for multiple myeloma**
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- XLV. **Resveratrol and Its Natural Analogues Inhibit RNA Dependant RNA Polymerase (RdRp) of Rhizopus oryzae in Mucormycosis through Computational Investigations**
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- XLVI. **Benzimidazole-hydrazone derivatives: Synthesis, in vitro anticancer, antimicrobial, antioxidant activities, in silico DFT and ADMET studies**
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- L. **Evaluation of the Chemical Composition, Antioxidant and Antidiabetic Activity of Rhaponticoides iconiensis Flowers: Effects on Key Enzymes Linked to Type 2 Diabetes In Vitro, In Silico and on Alloxan-Induced Diabetic Rats In Vivo.**
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- LI. **Discovery of oxindole-based FLT3 inhibitors as a promising therapeutic lead for acute myeloid leukemia carrying the oncogenic ITD mutation**
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- LII. **Discovery of potential natural dihydroorotate dehydrogenase inhibitors and their synergism with brequinar via integrated molecular docking, dynamic simulations and in vitro approach**
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- LIII. **Analgesic and Anti-Inflammatory Potential of Indole Derivatives**
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- LIV. **Quantum mechanical, virtual screening, molecular docking, molecular dynamics, ADME and antimicrobial activity studies of some new indole-hydrazone derivatives as potent agents against *E. faecalis***
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- LV. **Synthesis, characterization, molecular docking, dynamics simulations, and in silico absorption, distribution, metabolism, and excretion (ADME) studies of new thiazolylhydrazone derivatives as butyrylcholinesterase inhibitors**
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- LVI. **Synthesis and investigations of reactive properties, photophysical properties and biological activities of a pyrazole-triazole hybrid molecule**
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- LX. **Synthesis, and docking studies of novel tetrazole-S-alkyl derivatives as antimicrobial agents**
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- LXI. **Anti-quorum sensing, antibiofilm, and antibacterial activities of extracts of *Centella asiatica* L. leaves, and in vitro derived leaves-calli through tissue culture: a potential for biofouling-prevention**
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- LXII. **Design, Synthesis, in Vitro and in Silico Studies of Benzimidazole-Linked Oxadiazole Derivatives as Anti-inflammatory Agents**
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- LXIII. **Novel Benzimidazole-Based Compounds as Antimicrobials: Synthesis, Molecular Docking, Molecular Dynamics and in silico ADME Profile Studies**
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- LXIV. **An Insight Based on Computational Analysis of the Interaction between the Receptor-Binding Domain of the Omicron Variants and Human Angiotensin-Converting Enzyme 2.**

- Çelik İ., Abdellatif M. H., Tallei T. E.
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- LXV. **Design, Synthesis, and Molecular Modeling Studies of a Novel Benzimidazole as an Aromatase Inhibitor**
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- Publication: 137
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