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Education Information

Post Doctorate, Martin-Luther-Universitaet Halle-Wittenberg, Institute of Pharmacy, Pharmaceutical Chemistry and Clinical Pharmacy, Germany 2023 - 2024

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

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

Foreign Languages

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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

- Investigation of the molecular interaction between apraclonidine, an α_2 -adrenergic receptor agonist, and bovine serum albumin using fluorescence and molecular docking techniques**
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- Synergistic effect of potential alpha-amylase inhibitors from Egyptian propolis with acarbose using**

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- IV. **Benzimidazole-Containing Compounds as Anticancer Agents**
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- V. **Sedative and anxiolytic effects of Capparis sicula Duhamel: in vivo and in silico approaches with phytochemical profiling**
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- VI. **Unraveling the interaction mechanism between orphan drug Nitisinone and bovine serum albumin through spectroscopic and in silico approaches.**
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- VII. **In vitro anti-Helicobacter pylori, anti-urease and anti-gastric cancer activities of novel hydrazones**
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- VIII. **New benzimidazole-oxadiazole derivatives as potent VEGFR-2 inhibitors: Synthesis, anticancer evaluation, and docking study.**
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Drug development research, vol.85, no.4, 2024 (SCI-Expanded)
- IX. **Discovery and Anticancer Screening of Novel Oxindole-Based Derivative Bearing Pyridyl Group as Potent and Selective Dual FLT3/CDK2 Kinase Inhibitor.**
Soudi A., Bender O., Celik İ., El-Hafeez A. A. A., Dogan R., Atalay A., Elkaeed E. B., Alsouk A. A., Abdelhafez E. M. N., Aly O. M., et al.
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- XII. **Synthesis, DFT Calculations, <i>In Silico</i> Studies, and Antimicrobial Evaluation of Benzimidazole-Thiadiazole Derivatives**
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- XIII. **Investigating Potential Cancer Therapeutics: Insight into Histone Deacetylases (HDACs) Inhibitions.**
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- XIV. **New Benzimidazole-Triazole Derivatives as Topoisomerase I Inhibitors: Design, Synthesis, Anticancer Screening, and Molecular Modeling Studies**
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- XVI. **Molecular insights into the anti-inflammatory activity of fermented pineapple juice using multimodal computational studies**
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- XVIII. **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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- XIX. **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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- XX. **Design, synthesis, and molecular docking studies of benzimidazole-1,3,4-triazole hybrids as carbonic anhydrase I and II inhibitors**
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- XXVII. **Design, synthesis, molecular docking and molecular dynamic studies of novel benzimidazole-thiazole derivatives as potent and selective COX-2 inhibitors**

- IRMAK N. E., SAĞLIK B. N., ÇELİK İ., Tahsin Sen H., ÖZKAY Y., KILCIGİL G.
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- XXVIII. **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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- XXX. **Epigallocatechin-3-Gallate Therapeutic Potential in Cancer: Mechanism of Action and Clinical Implications.**
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- XXXII. **Design, synthesis, molecular docking and biological evaluation of 1,2,4-triazole derivatives possessing a hydrazone moiety as anti-breast cancer agents**
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- XXXIII. **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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- XXXIV. **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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- XXXV. **Exploring the structural, photophysical and optoelectronic properties of a diaryl heptanoid curcumin derivative and identification as a SARS-CoV-2 inhibitor**
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- XXXVI. **New benzimidazole-oxadiazole derivatives: Synthesis, α -glucosidase, α -amylase activity, and molecular modeling studies as potential antidiabetic agents**
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- XXXVII. **Beta Elemene induces cytotoxic effects in FLT3 ITD-mutated acute myeloid leukemia by modulating apoptosis.**
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- XXXVIII. **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**
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- XXXIX. **New imidazole derivatives as aromatase inhibitor: Design, synthesis, biological activity, molecular**

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- XL. **Substances of Natural Origin in Medicine: Plants vs. Cancer.**
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- XLII. **Synthesis, biological evaluation, and molecular modeling studies of new 1,3,4-thiadiazole derivatives as potent antimicrobial agents.**
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- XLIII. **Design, Synthesis, In Silico and POM Studies for the Identification of the Pharmacophore Sites of Benzylidene Derivatives**
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- XLIV. **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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- XLV. **PD-1/PD-L1 and DNA Damage Response in Cancer**
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- XLVII. **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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- XLVIII. **New 2-((2-(2,4-dinitrophenyl)hydrazineylidene) derivatives: design, synthesis, in silico, and in vitro anticancer studies.**
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- L. **COMPREHENSIVE ANALYSIS ON COTINUS COGGYRIA SCOP. LEAVES: PHYTOCHEMICAL CHARACTERIZATION, BIOLOGICAL PROFILE AND DOCKING STUDIES**
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- LIV. **Resveratrol and Its Natural Analogues Inhibit RNA Dependant RNA Polymerase (RdRp) of Rhizopus oryzae in Mucormycosis through Computational Investigations**
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- LV. **Benzimidazole-hydrazone derivatives: Synthesis, in vitro anticancer, antimicrobial, antioxidant activities, in silico DFT and ADMET studies**
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- LVI. **Synthesis, Molecular Docking, Dynamics, Quantum-Chemical Computation, and Antimicrobial Activity Studies of Some New Benzimidazole-Thiadiazole Hybrids.**
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- LIX. **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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- LX. **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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- LXI. **Analgesic and Anti-Inflammatory Potential of Indole Derivatives**
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- LXII. **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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- LXIII. **Discovery of oxindole-based FLT3 inhibitors as a promising therapeutic lead for acute myeloid leukemia carrying the oncogenic ITD mutation**
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- LXIV. **Synthesis, characterization, molecular docking, dynamics simulations, and in silico absorption, distribution, metabolism, and excretion (ADME) studies of new thiazolyhydrazone derivatives as butyrylcholinesterase inhibitors**

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Citation (Scopus): 1694

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