

GPCR Dynamics by NMR

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


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Website1 (<https://www.ub.edu/medicinalchemistrypharmacology/research-group/diego-munoz-torrero/>). **Website2** (<https://www.ub.edu/portal/web/dp-farmacologia/multitarget-anti-alzheimer-and-chemotherapeutic-compounds>).

Section Editor-in-Chief

Laboratory of Medicinal Chemistry, Faculty of Pharmacy and Food Sciences, Institute of Biomedicine (IBUB), University of Barcelona, Av. Joan XXIII, 27-31, E-08028 Barcelona, Spain

Interests: multitarget anti-Alzheimer agents; hybrid compounds; cholinesterase inhibitors; amyloid anti-aggregating compounds; BACE-1 inhibitors; antiprotozoan compounds

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Raffaele Capasso (<https://sciprofiles.com/profile/332691>)

Website (<https://www.docenti.unina.it/#!/professor/5241464641454c454341504153534f43505352464c3733433038463833394a/riferimenti>)

Editorial Board Member

Department of Agricultural Sciences, University of Naples Federico II, 80055 Portici, Italy

Interests: pharmacology; natural products; neurotransmission; behavioral pharmacology; experimental pharmacology; preclinical pharmacology; CB1 receptor; PPARs; cannabinoids; endocannabinoids; CB2 receptor

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Seungpyo Hong (<https://sciprofiles.com/profile/1413709>)

Website (<https://pharmacy.wisc.edu/hong-lab/>)

Editorial Board Member

Milton J. Henrichs Chair in Pharmaceutical Sciences; Professor of Pharmaceutical Sciences, Carbone Cancer Center, and Biomedical Engineering; Director of Wisconsin Center for NanoBioSystems (WisCNano), University of Wisconsin, Madison, WI 53705, USA

Interests: nanomedicine; polymer chemistry; surface engineering; circulating tumor cell; cancer biomarker

Dr. Giangiacomo Torri (<https://sciprofiles.com/profile/288911>)

Website (<http://www.ronzoni.it/units/index.html>)

Editorial Board Member

Carbohydrate Sciences Department, Ronzoni Institute, Milan, Italy

Interests: heparin; LMWH; glycosaminoglycan; protein–carbohydrate interaction; glycol-split heparins; heparin mimetics; nanoparticles engineered with heparin; polysaccharides and derivatives; structure–activity relationship; oligosaccharide analysis; nuclear magnetic resonance/PCA; mass spectrometry

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Prof. Dr. Istvan Toth (<https://sciprofiles.com/profile/43285>)

Website1 (<https://researchers.uq.edu.au/researcher/835>) **Website2** (<http://researchers.uq.edu.au/researcher/835>)

Editorial Board Member

School of Chemistry and Molecular Bioscience, The University of Queensland, Brisbane, QLD 4072, Australia

Interests: drug delivery; antimicrobial agents; prodrug strategies; macromolecules; adjuvants

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Prof. Dr. Tiziano Tuccinardi (<https://sciprofiles.com/profile/346731>)

Website (<http://www.mmvs1.it/wp/group-members/tuccinardi/>)

Editorial Board Member

Department of Pharmacy, University of Pisa, Via Bonanno 6, 56126 Pisa, Italy

Interests: medicinal chemistry; drug design; ligand–protein binding, molecular interactions; molecular modeling; hit identification; lead optimization

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Luigi A. Agrofoglio (<https://sciprofiles.com/profile/11090>)

Website (<http://www.icoa.fr/en/agrofoglio>)

Section Board Member

ICOA UMR CNRS 7311, Université d'Orléans, Rue de Chartres, 45067 Orléans, CEDEX 2, France

Interests: nucleoside and nucleotide analogues; heterocycles; infectious diseases, oncolytic virus; drug delivery system; (asymmetric)-organic synthesis; medicinal chemistry; synthetic methodologies; enzyme inhibitors

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Jussara Amato (<https://sciprofiles.com/profile/49044>)

Website (<https://www.docenti.unina.it/#!/professor/4a555353415241414d41544f4d54414a535238304235335a36303257/riferimenti>)

Section Board Member

Department of Pharmacy, University of Naples Federico II, Via D. Montesano 49, 80131 Naples, Italy

Interests: chemistry of nucleic acids; nucleic acids therapeutics; nucleic acid-targeting drugs

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Dr. Rosa Amoroso (<https://sciprofiles.com/profile/1004869>)




Website (<https://www.unich.it/ugov/person/550>)

Section Board Member

Department of Pharmacy, University of G. d'Annunzio of Chieti and Pescara, Chieti, Italy

Interests: medicinal chemistry; organic synthesis; nitric oxide; nitric oxide synthase; PPAR receptors; metabolic syndrome; aromatase inhibitors

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Prof. Dr. Mai Antonello (<https://sciprofiles.com/profile/373171>).

Website (https://web.uniroma1.it/dip_ctf/dipartimento/personale_dip/docenti/professori-ordinari/mai-antonello).

Section Board Member

Università degli Studi di Roma La Sapienza, Rome, Italy

Interests: 1) organic synthesis; 2) synthesis of new potential bio-active compounds, particularly in the field of epigenetics (inhibitors of DNMTs, HDACs [unselective and class-selective], HATs, sirtuins, PRMTs, HKMTs, and HDs), anticancer agents, antiviral agents (anti-human picornavirus compounds (disoxaril analogues), and anti-HIV-1 compounds belonging to the non-nucleoside reverse transcriptase inhibitor classes (DABOs, S-DABOs, DATNOs, F2-S-DABOs, Amino-DABOs), antibacterial (oxacine analogues), antimycobacterial (oxacine and U-100480 analogues) and antifungal (trichostatin A, pyrrolnitrin, and bifonazole analogues) agents, and CNS agents (pyrrolbenzodiazepines active as analgesic, antidepressant and nootropic compounds); 3) development of new methodology for the synthesis of heterocycles; 4) analysis and purification of organic mixtures; 5) study and characterization of organic molecules

Prof. Dr. Dev P. Arya (<https://sciprofiles.com/profile/56026>).

Website (<https://www.clemson.edu/health-research/faculty/arya.html>).

Section Board Member

Laboratory for Bio-Organic and Medicinal Chemistry, Department of Chemistry, Clemson University, Clemson, SC, USA

Interests: medicinal chemistry; antibacterial drugs; nucleic acid recognition

Prof. Dr. Sergey O. Bachurin (<https://sciprofiles.com/profile/933556>).

Website (http://www.ras.ru/win/DB/show_per.asp?P=id-1256.ln-ru).

Section Board Member

Institute of Physiologically Active Compounds, Russian Academy of Sciences, 142432 Chernogolovka, Russia

Interests: drug discovery; medicinal chemistry; molecular pharmacology; neurodegenerative diseases

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Prof. Dr. Michel Baltas (<https://sciprofiles.com/profile/1453942>).

Website (<https://www.lcc-toulouse.fr/en/lcc-directory/>).

Section Board Member

LCC CNRS UPR 8241, Laboratoire de Chimie de Coordination du CNRS, 205 route de Narbonne, 31077 Toulouse, CEDEX 4, France

Interests: organic chemistry; bioorganic chemistry; fluorine chemistry; medicinal chemistry; sustainable chemistry

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Dr. Federica Belluti (<https://sciprofiles.com/profile/168754>).

Website (<https://www.unibo.it/sitoweb/federica.belluti/cv-en>).

Section Board Member

Department of Pharmacy and Biotechnology, Alma Mater Studiorum—University of Bologna, Via Belmeloro 6, 40126 Bologna, Italy

Interests: coumarins; chalcones; curcumin; drug design; multitarget bioactive molecules; infectious disease; neurodegeneration

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Prof. Dr. Gerd Bendas (<https://sciprofiles.com/profile/16043>).

Website (<https://www.pharma.uni-bonn.de/www/pharmchem2/ak-bendas>).

Section Board Member

Pharmaceutical Department, University Bonn, 53121 Bonn, Germany

Interests: cancer metastasis; resistance; platelets; heparin; signaling pathways

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Prof. Dr. Massimo Bertinaria

Website (https://www.farmacia-dstf.unito.it/do/docenti.pl/Show?_id=mbertina#profilo).

Section Board Member

Università degli Studi di Torino, Turin, Italy

Interests: drug discovery, synthesis and structure-activity relationships of biologically active compounds; design and synthesis of multi-target drugs and NLRP3 ligands for the treatment of chronic inflammatory, neurodegenerative and autoimmune diseases. Protein targeting chimaeras (PROTACs)

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Prof. Dr. Grazyna Biala (<https://sciprofiles.com/profile/1728357>).

Website (<https://www.umlub.pl/uczelnia/pracownicy/szczegoly,1641.html>).

Section Board Member

Medical University of Lublin, Lublin, Poland

Interests: pharmacology; neuropsychopharmacology; neurobiology; pharmacy

Dr. Mariangela Biava (<https://sciprofiles.com/profile/1863788>)

Website (<https://corsidilaurea.uniroma1.it/it/users/mariangelabiavauniroma1it>)

Section Board Member

Department of Chemistry and Technologies of Drug, Sapienza University of Rome, piazzale A. Moro 5, 00185 Rome, Italy

Interests: antitubercular compounds; drug development; tuberculosis; lead optimisation; mycobacterium tuberculosis; pyrroles; pyrazoles; selective COX-2 inhibitors; MmpL3

Dr. William Blalock (<https://sciprofiles.com/profile/696756>)

Website (<https://www.igm.cnr.it/en/institute/organization/staff/blalock-william/>)

Section Board Member

"Luigi Luca Cavalli-Sforza" Institute of Molecular Genetics, National Research Council of Italy, 40136 Bologna, Italy

Interests: Inflammation; stress; nuclear signaling; acute leukemia; bone marrow failure disorders; osteosarcoma

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Prof. Dr. Mercedes Bonfill (<https://sciprofiles.com/profile/1066560>)

Website (<https://webgrec.ub.edu/webpages/000003/cas/mbonfill.ub.edu.html>)

Section Board Member

Plant Biotechnology Group, Plant Physiology Section, Department of Biology, Health and Environment, Faculty of Pharmacy and Food Sciences University of Barcelona, Av. Joan XXIII 27-31, 08028 Barcelona, Spain

Interests: plant biotechnology; plant in vitro cultures; metabolic engineering; plant secondary metabolism

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Prof. Dr. Fernanda Borges (<https://sciprofiles.com/profile/191377>)

Website (<http://www.mutalig.eu/2016/06/prof-fernanda-borges/>)

Section Board Member

CIQUP/Department of Chemistry and Biochemistry, Faculty of Sciences, University of Porto, 4169-007 Porto, Portugal

Interests: drug discovery; nanomedicine; ADME-Tox; neurodegenerative; infectious diseases; antioxidants

Special Issues, Collections and Topics in MDPI journals

Dr. Margherita Brindisi (<https://sciprofiles.com/profile/1014069>)

Website (<https://www.docenti.unina.it/#!/professor/4d4152474845524954414252494e4449534942524e4d474838305336374737383650/riferimenti>)

Section Board Member

Department of Pharmacy, University of Naples 'Federico II', Naples, Italy

Interests: medicinal chemistry; drug discovery; drug repurposing/repositioning; structure–activity relationships; antiviral agents; antibacterials; anticancer agents; protease inhibitors; therapeutics for rare diseases

Special Issues, Collections and Topics in MDPI journals

Prof. Dr. Chiara Brullo (<https://sciprofiles.com/profile/955465>)

Website (<https://rubrica.unige.it/personale/UkNHVVNv>)

Section Board Member

Department of Pharmacy, University of Genoa, 16132 Genova, Italy

Interests: medicinal chemistry; drug design; antiproliferative compounds; anti-inflammatory compounds; kinase inhibitors; phosphodiesterase inhibitors; pyrazole derivatives

Special Issues, Collections and Topics in MDPI journals

Prof. Dr. Ines Bruno (<https://sciprofiles.com/profile/1484725>)

Website (<https://docenti.unisa.it/001593/home>)

Section Board Member

Department of Pharmacy, University of Salerno, 84084 Fisciano, SA, Italy

Interests: Drug discovery; Organic Synthesis; Multicomponent Reactions; Cancer and Inflammation

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Prof. Dr. Julio A. Camarero (<https://sciprofiles.com/profile/150189>)

Website (<https://pharmacyschool.usc.edu/faculty/julio-a-camarero-phd/>)

Section Board Member

Professor of Pharmacology and Pharmaceutical Sciences, Department of Pharmacology and Pharmaceutical Sciences, School of Pharmacy, University of Southern California, Los Angeles, CA 90089-9121, USA

Interests: protein/peptide chemistry; protein engineering; polypeptide-based therapeutics; combinatorial libraries; orthogonal chemistry; disulfide-rich peptides/proteins; targeted therapies; high throughput screening

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Assoc. Prof. Dr. Loredana Cappellacci (<https://sciprofiles.com/profile/35492>)

Website (<https://docenti.unicam.it/pdett.aspx?ids=N&tv=d&Uteld=200&ru=PA>)

Section Board Member

School of Pharmacy, Medicinal Chemistry Unit, University of Camerino, via S. Agostino 1, 62032 Camerino (MC), Italy

Interests: adenosine receptor ligands, anticancer agents, enzyme inhibitors, medicinal chemistry, nucleosides and nucleotides

Dr. Daniele Castagnolo (<https://sciprofiles.com/profile/874143>)

Website1 (<https://sites.google.com/site/danielecastagnoloresearchgroup/biography>). **Website2**

(<https://sites.google.com/site/danielecastagnoloresearchgroup/home>)

Section Board Member

School of Cancer and Pharmaceutical Sciences, King's College London, London SE1 9NH, UK

Interests: antimicrobial resistance; antibacterials; tuberculosis; Gram+/-ve bacterial infections; drug synthesis; medicinal chemistry; green chemistry to access drug-like molecules

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Prof. Dr. María Ángeles Castro (<https://sciprofiles.com/profile/353195>)

Website (<http://www.cietus.es/es/INVESTIGACION/>)

Section Board Member

Department of Pharmaceutical Sciences, Pharmaceutical Chemistry Section, CIETUS/IBSAL, Faculty of Pharmacy, University of Salamanca, 37008 Salamanca, Spain

Interests: natural product transformations; hybridation; anticancer and anti-parasitic compounds

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Dr. Laura Cerchia (<https://sciprofiles.com/profile/1740993>)

Website (<http://bit.ly/LauraCerchia>)

Section Board Member

Institute of Experimental Endocrinology and Oncology "G. Salvatore" (IEOS), National Research Council (CNR), Naples, Italy

Interests: cell-SELEX; cancer biomarker discovery; cancer cell biology and signalling; targeted therapy; chemotherapy resistance

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Dr. Ik-Hyun Cho (<https://sciprofiles.com/profile/1694388>)

Website (<https://khu.elsevierpure.com/en/persons/ik-hyun-cho>)

Section Board Member

College of Korean Medicine, Kyung Hee University, 26 Kyungheedaero, Dongdaemun-gu, Seoul 02447, Korea

Interests: neuroinflammation; neurodegeneration; autoimmune diseases; neuroglia; herbal medicine; nano-technology in herbal medicines

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


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Different Effects of Cigarette Smoke, Heated Tobacco Product and E-Cigarette Vapour on Orbital Fibroblasts in Graves' Orbitopathy; a Study by Real Time Cell Electronic Sensing ([/1420-3049/27/9/3001](https://doi.org/10.3390/molecules27093001))

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Phytochemical Compositions and Antioxidant Activities of Essential Oils Extracted from the Flowers of *Paeonia delavayi* Using Supercritical Carbon Dioxide Fluid ([/1420-3049/27/9/3000](https://doi.org/10.3390/molecules27093000))

Molecules **2022**, *27*(9), 3000; <https://doi.org/10.3390/molecules27093000> (<https://doi.org/10.3390/molecules27093000>) - 07 May 2022

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Characterisation of a Novel Acetyl Xylan Esterase (BaAXE) Screened from the Gut Microbiota of the Common Black Slug (*Arion ater*) ([/1420-3049/27/9/2999](https://doi.org/10.3390/molecules27092999))

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Comparative Study of Preparation, Evaluation, and Pharmacokinetics in Beagle Dogs of Curcumin β -Cyclodextrin Inclusion Complex, Curcumin Solid Dispersion, and Curcumin Phospholipid Complex ([/1420-3049/27/9/2998](https://doi.org/10.3390/molecules27092998))

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Exploring the Parallel G-Quadruplex Nucleic Acid World: A Spectroscopic and Computational Investigation on the Binding of the c-myc Oncogene NHE III1 Region by the Phytochemical Polydatin ([/1420-3049/27/9/2997](https://doi.org/10.3390/molecules27092997))

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The Essential Oil Derived from *Perilla frutescens* (L.) Britt. Attenuates Imiquimod-Induced Psoriasis-like Skin Lesions in BALB/c Mice ([/1420-3049/27/9/2996](https://doi.org/10.3390/molecules27092996))

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The Role of Antimicrobial Peptides as Antimicrobial and Antibiofilm Agents in Tackling the Silent Pandemic of Antimicrobial Resistance ([/1420-3049/27/9/2995](https://doi.org/10.3390/molecules27092995))

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Inosine and D-Mannose Secreted by Drug-Resistant *Klebsiella pneumoniae* Affect Viability of Lung Epithelial Cells ([/1420-3049/27/9/2994](https://doi.org/10.3390/molecules27092994))

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The Role of the Nucleotides in the Insertion of the bis-Molybdopterin Guanine Dinucleotide Cofactor into apo-Molybdoenzymes ([/1420-3049/27/9/2993](https://doi.org/10.3390/molecules27092993))

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Simultaneous Analysis of 19 Marker Components for Quality Control of Oncheong-Eum Using HPLC-DAD ([/1420-3049/27/9/2992](https://doi.org/10.3390/molecules27092992))

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A Brief Review on Fruit and Vegetable Extracts as Corrosion Inhibitors in Acidic Environments ([/1420-3049/27/9/2991](https://doi.org/10.3390/molecules27092991))






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ST2825, a Small Molecule Inhibitor of MyD88, Suppresses NF- κ B Activation and the ROS/NLRP3/Cleaved Caspase-1 Signaling Pathway to Attenuate Lipopolysaccharide-Stimulated Neuroinflammation ([/1420-3049/27/9/2990](#))

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Synthesis, X-ray Structure and Biological Studies of New Self-Assembled Cu(II) Complexes Derived from s-Triazine Schiff Base Ligand ([/1420-3049/27/9/2989](#))

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
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
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Insight of the Functional and Biological Activities of Coconut (*Cocos nucifera* L.) Protein by Proteomics Analysis and Protein-Based Bioinformatics ([/1420-3049/27/9/2987](#))

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
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Determination of Chiral Impurity of Naproxen in Different Pharmaceutical Formulations Using Polysaccharide-Based Stationary Phases in Reversed-Phased Mode ([/1420-3049/27/9/2986](#))

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
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Effects of Wood Flour (WF) Pretreatment and the Addition of a Toughening Agent on the Properties of FDM 3D-Printed WF/Poly(lactic acid) Biocomposites ([/1420-3049/27/9/2985](#))

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Catalytic Performance of One-Pot Synthesized Fe-MWW Layered Zeolites (MCM-22, MCM-36, and ITQ-2) in Selective Catalytic Reduction of Nitrogen Oxides with Ammonia ([/1420-3049/27/9/2983](#))

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
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Antioxidant, Antimicrobial, and Metabolomic Characterization of Blanched Pomegranate Peel Extracts: Effect of Cultivar ([/1420-3049/27/9/2979](#))

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A New Phenylazo-Based Fluorescent Probe for Sensitive Detection of Hypochlorous Acid in Aqueous Solution ([/1420-3049/27/9/2978](#))

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Allosteric Binding of MDMA to the Human Serotonin Transporter (hSERT) via Ensemble Binding Space Analysis with ΔG Calculations, Induced Fit Docking and Monte Carlo Simulations ([/1420-3049/27/9/2977](#))

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Lycorine Alkaloid and *Crinum americanum* L. (Amaryllidaceae) Extracts Display Antifungal Activity on Clinically Relevant *Candida* Species ([/1420-3049/27/9/2976](#))

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
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Nanoemulsified Formulation of *Cedrela odorata* Essential Oil and Its Larvicidal Effect against *Spodoptera frugiperda* (J.E. Smith) ([/1420-3049/27/9/2975](#))

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The Impact of Type of Brandy on the Volatile Aroma Compounds and Sensory Properties of Grape Brandy in Montenegro ((1420-3049/27/9/2974).

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
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Ultra-Thin Wrinkled Carbon Sheet as an Anode Material of High-Power-Density Potassium-Ion Batteries ((1420-3049/27/9/2973)

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
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
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
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
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
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


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Investigating the Stability of Six Phenolic TMZ Ester Analogues, Incubated in the Presence of Porcine Liver Esterase and Monitored by HPLC (1420-3049/27/9/2958)

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The Effect of Precipitation pH on Protein Recovery Yield and Emulsifying Properties in the Extraction of Protein from Cold-Pressed Rapeseed Press Cake (1420-3049/27/9/2957)

Molecules **2022**, *27*(9), 2957; <https://doi.org/10.3390/molecules27092957> (<https://doi.org/10.3390/molecules27092957>) - 05 May 2022




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Proliferation and Invasion of Melanoma Are Suppressed by a Plant Protease Inhibitor, Leading to Downregulation of Survival/Death-Related Proteins (1420-3049/27/9/2956)

Molecules **2022**, *27*(9), 2956; <https://doi.org/10.3390/molecules27092956> (<https://doi.org/10.3390/molecules27092956>) - 05 May 2022




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Non-Invasive Detection of Anti-Inflammatory Bioactivity and Key Chemical Indicators of the Commercial Lanqin Oral Solution by Near Infrared Spectroscopy (1420-3049/27/9/2955)

Molecules **2022**, *27*(9), 2955; <https://doi.org/10.3390/molecules27092955> (<https://doi.org/10.3390/molecules27092955>) - 05 May 2022




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Characterizing the ZrC(111)/c-ZrO₂(111) Hetero-Ceramic Interface: First Principles DFT and Atomistic Thermodynamic Modeling (1420-3049/27/9/2954)

Molecules **2022**, *27*(9), 2954; <https://doi.org/10.3390/molecules27092954> (<https://doi.org/10.3390/molecules27092954>) - 05 May 2022




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Preparation and Photocatalytic Performance of TiO₂ Nanowire-Based Self-Supported Hybrid Membranes (1420-3049/27/9/2951)

Molecules **2022**, *27*(9), 2951; <https://doi.org/10.3390/molecules27092951> (<https://doi.org/10.3390/molecules27092951>) - 05 May 2022



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***Albatrellus confluens* (Alb. & Schwein.) Kotl. & Pouz.: Natural Fungal Compounds and Synthetic Derivatives with In Vitro Anthelmintic Activities and Antiproliferative Effects against Two Human Cancer Cell Lines (1420-3049/27/9/2950)**

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Investigation of Chemical Compositions and Biological Activities of *Mentha suaveolens* L. from Saudi Arabia (1420-3049/27/9/2949)

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Synthesis of Berberine and Canagliflozin Chimera and Investigation into New Antibacterial Activity and Mechanisms (1420-3049/27/9/2948)

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Synthesis, Theoretical Calculation, and Biological Studies of Mono- and Diphenyltin(IV) Complexes of *N*-Methyl-*N*-hydroxyethylthiocarbamate (1420-3049/27/9/2947)

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Atractyolodin Induces Apoptosis and Inhibits the Migration of A549 Lung Cancer Cells by Regulating ROS-Mediated Signaling Pathways (1420-3049/27/9/2946)

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
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Qualitative and Quantitative Analysis of Edible Bird's Nest Based on Peptide Markers by LC-QTOF-MS/MS (1420-3049/27/9/2945)

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Inhibitory Effects and Mechanism of the Natural Compound Diaporthein B Extracted from Marine-Derived Fungi on Colon Cancer Cells (1420-3049/27/9/2944)

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Development, Characterization, and Antimicrobial Evaluation of Ampicillin-Loaded Nanoparticles Based on Poly(maleic acid-co-vinylpyrrolidone) on Resistant *Staphylococcus aureus* Strains (1420-3049/27/9/2943)

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Effects of Organic Acids on the Release of Fruity Esters in Water: An Insight at the Molecular Level (1420-3049/27/9/2942)




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- The Lactoferrin Phenomenon—A Miracle Molecule** ([/1420-3049/27/9/2941](https://doi.org/10.3390/molecules27092941))
Molecules **2022**, *27*(9), 2941; <https://doi.org/10.3390/molecules27092941> (<https://doi.org/10.3390/molecules27092941>) - 04 May 2022   
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- Novel Pyridinium Based Ionic Liquid Promoter for Aqueous Knoevenagel Condensation: Green and Efficient Synthesis of New Derivatives with Their Anticancer Evaluation** ([/1420-3049/27/9/2940](https://doi.org/10.3390/molecules27092940))
Molecules **2022**, *27*(9), 2940; <https://doi.org/10.3390/molecules27092940> (<https://doi.org/10.3390/molecules27092940>) - 04 May 2022
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- Synthesis and Characterization of Dihydrouracil Analogs Utilizing Biginelli Hybrids** ([/1420-3049/27/9/2939](https://doi.org/10.3390/molecules27092939))
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- A Novel Donor-Acceptor Thiophene-Containing Oligomer Comprising Dibenzothiophene-S,S-dioxide Units for Solution-Processable Organic Field Effect Transistor** ([/1420-3049/27/9/2938](https://doi.org/10.3390/molecules27092938))
Molecules **2022**, *27*(9), 2938; <https://doi.org/10.3390/molecules27092938> (<https://doi.org/10.3390/molecules27092938>) - 04 May 2022
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- Novasomes as Nano-Vesicular Carriers to Enhance Topical Delivery of Fluconazole: A New Approach to Treat Fungal Infections** ([/1420-3049/27/9/2936](https://doi.org/10.3390/molecules27092936))
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- Comparative Metabolite Fingerprinting of Four Different Cinnamon Species Analyzed via UPLC–MS and GC–MS and Chemometric Tools** ([/1420-3049/27/9/2935](https://doi.org/10.3390/molecules27092935))
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- Investigating the Functional Role of the Cysteine Residue in Dehydrin from the Arctic Mouse-Ear Chickweed *Cerastium arcticum*** ([/1420-3049/27/9/2934](https://doi.org/10.3390/molecules27092934))
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- Cations Modulated Assembly of Triol-Ligand Modified Cu-Centered Anderson-Evans Polyanions** ([/1420-3049/27/9/2933](https://doi.org/10.3390/molecules27092933))
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- Procyanidins and Their Therapeutic Potential against Oral Diseases** ([/1420-3049/27/9/2932](https://doi.org/10.3390/molecules27092932))
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- Downregulation of the NLRP3/Caspase-1 Pathway Ameliorates Ketamine-Induced Liver Injury and Inflammation in Developing Rats** ([/1420-3049/27/9/2931](https://doi.org/10.3390/molecules27092931))
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- Open Access Article   [./\(1420-3049/27/9/2930/pdf?version=1651673842\)](https://doi.org/10.3390/molecules27092930) 
- Modulation of the MOP Receptor (μ Opioid Receptor) by Imidazo[1,2-*a*]imidazole-5,6-Diones: In Search of the Elucidation of the Mechanism of Action** ([/1420-3049/27/9/2930](https://doi.org/10.3390/molecules27092930))
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- Conducting the RBD of SARS-CoV-2 Omicron Variant with Phytoconstituents from *Euphorbia dendroides* to Repudiate the Binding of Spike Glycoprotein Using Computational Molecular Search and Simulation Approach** ([/1420-3049/27/9/2929](https://doi.org/10.3390/molecules27092929))
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- Open Access Article   [./\(1420-3049/27/9/2928/pdf?version=1652262125\)](https://doi.org/10.3390/molecules27092928) 
- Analysis of Plant–Plant Interactions Reveals the Presence of Potent Antileukemic Compounds** ([/1420-3049/27/9/2928](https://doi.org/10.3390/molecules27092928))
Molecules **2022**, *27*(9), 2928; <https://doi.org/10.3390/molecules27092928> (<https://doi.org/10.3390/molecules27092928>) - 04 May 2022
- Open Access Article   [./\(1420-3049/27/9/2927/pdf?version=1651650712\)](https://doi.org/10.3390/molecules27092927) 
- Improvement of Biological Effects of Root-Filling Materials for Primary Teeth by Incorporating Sodium Iodide** ([/1420-3049/27/9/2927](https://doi.org/10.3390/molecules27092927))
Molecules **2022**, *27*(9), 2927; <https://doi.org/10.3390/molecules27092927> (<https://doi.org/10.3390/molecules27092927>) - 04 May 2022
- Open Access Article   [./\(1420-3049/27/9/2926/pdf?version=1651829055\)](https://doi.org/10.3390/molecules27092926) 
- Effect of Aucubin-Containing Eye Drops on Tear Hyposecretion and Lacrimal Gland Damage Induced by Urban Particulate Matter in Rats** ([/1420-3049/27/9/2926](https://doi.org/10.3390/molecules27092926))
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Low n-6/n-3 Gestation and Lactation Diets Influence Early Performance, Muscle and Adipose Polyunsaturated Fatty Acid Content and Deposition, and Relative Abundance of Proteins in Suckling Piglets (1420-3049/27/9/2925)

Molecules **2022**, 27(9), 2925; <https://doi.org/10.3390/molecules27092925> (<https://doi.org/10.3390/molecules27092925>) - 04 May 2022




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Visible Light Reductive Photocatalysis of Azo-Dyes with n-n Junctions Based on Chemically Deposited CdS (1420-3049/27/9/2924)

Molecules **2022**, 27(9), 2924; <https://doi.org/10.3390/molecules27092924> (<https://doi.org/10.3390/molecules27092924>) - 04 May 2022




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Highly Active Small Aminated Quinolinequinones against Drug-Resistant *Staphylococcus aureus* and *Candida albicans* (1420-3049/27/9/2923)

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Metal-Induced Fluorescence Quenching of Photoconvertible Fluorescent Protein DendFP (1420-3049/27/9/2922)

Molecules **2022**, 27(9), 2922; <https://doi.org/10.3390/molecules27092922> (<https://doi.org/10.3390/molecules27092922>) - 03 May 2022




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From Iron to Copper: The Effect of Transition Metal Catalysts on the Hydrogen Storage Properties of Nanoconfined LiBH₄ in a Graphene-Rich N-Doped Matrix (1420-3049/27/9/2921)

Molecules **2022**, 27(9), 2921; <https://doi.org/10.3390/molecules27092921> (<https://doi.org/10.3390/molecules27092921>) - 03 May 2022




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Synthesis and Antibacterial Activity Studies of the Conjugates of Curcumin with *c*-Dodecaborate and Cobalt Bis(Dicarbollide) Boron Clusters (1420-3049/27/9/2920)

Molecules **2022**, 27(9), 2920; <https://doi.org/10.3390/molecules27092920> (<https://doi.org/10.3390/molecules27092920>) - 03 May 2022




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β-Cyclodextrin as the Key Issue in Production of Acceptable Low-Cholesterol Dairy Products (1420-3049/27/9/2919)

Molecules **2022**, 27(9), 2919; <https://doi.org/10.3390/molecules27092919> (<https://doi.org/10.3390/molecules27092919>) - 03 May 2022




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Opportunities and Challenges in Targeting the Proofreading Activity of SARS-CoV-2 Polymerase Complex (1420-3049/27/9/2918)

Molecules **2022**, 27(9), 2918; <https://doi.org/10.3390/molecules27092918> (<https://doi.org/10.3390/molecules27092918>) - 03 May 2022




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Nanoformulation of Polyphenol Curcumin Enhances Cisplatin-Induced Apoptosis in Drug-Resistant MDA-MB-231 Breast Cancer Cells (1420-3049/27/9/2917)

Molecules **2022**, 27(9), 2917; <https://doi.org/10.3390/molecules27092917> (<https://doi.org/10.3390/molecules27092917>) - 03 May 2022

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Study on Extraction and Antioxidant Activity of Flavonoids from *Hemerocallis fulva* (Daylily) Leaves (1420-3049/27/9/2916)

Molecules **2022**, 27(9), 2916; <https://doi.org/10.3390/molecules27092916> (<https://doi.org/10.3390/molecules27092916>) - 03 May 2022




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Rapid Sample Screening Method for Authenticity Controlling of Vanilla Flavours Using Liquid Chromatography with Electrochemical Detection Using Aluminium-Doped Zirconia Nanoparticles-Modified Electrode (1420-3049/27/9/2915)

Molecules **2022**, 27(9), 2915; <https://doi.org/10.3390/molecules27092915> (<https://doi.org/10.3390/molecules27092915>) - 03 May 2022



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Chemometric Investigation and Antimicrobial Activity of *Salvia rosmarinus* Spenn Essential Oils (1420-3049/27/9/2914)

Molecules **2022**, 27(9), 2914; <https://doi.org/10.3390/molecules27092914> (<https://doi.org/10.3390/molecules27092914>) - 03 May 2022




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Effects of Cadmium on Physiochemistry and Bioactive Substances of Muskmelon (*Cucumis melo* L.) (1420-3049/27/9/2913)

Molecules **2022**, 27(9), 2913; <https://doi.org/10.3390/molecules27092913> (<https://doi.org/10.3390/molecules27092913>) - 03 May 2022




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Wave Packet Approach to Adiabatic and Nonadiabatic Dynamics of Cold Inelastic Scatterings (1420-3049/27/9/2912)

Molecules **2022**, 27(9), 2912; <https://doi.org/10.3390/molecules27092912> (<https://doi.org/10.3390/molecules27092912>) - 03 May 2022




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Comparison of Extraction Techniques for the Determination of Volatile Organic Compounds in Liverwort Samples (1420-3049/27/9/2911)

Molecules **2022**, 27(9), 2911; <https://doi.org/10.3390/molecules27092911> (<https://doi.org/10.3390/molecules27092911>) - 03 May 2022




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



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


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
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
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
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
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
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
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


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


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
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


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

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
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Molecules **2022**, 27(9), 2807; <https://doi.org/10.3390/molecules27092807> (<https://doi.org/10.3390/molecules27092807>) - 28 Apr 2022




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  [./\(1420-3049/27/9/2806/pdf?version=1651140754\)](#)

Dictyophora Polysaccharide Attenuates As-Mediated PINK1/Parkin Pathway-Induced Mitophagy in L-02 Cell through Scavenging ROS (1420-3049/27/9/2806)

Molecules **2022**, 27(9), 2806; <https://doi.org/10.3390/molecules27092806> (<https://doi.org/10.3390/molecules27092806>) - 28 Apr 2022



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  [./\(1420-3049/27/9/2805/pdf?version=1651925392\)](#) 

Identification of Mtb GlmU Uridyltransferase Domain Inhibitors by Ligand-Based and Structure-Based Drug Design Approaches (1420-3049/27/9/2805)

Molecules **2022**, 27(9), 2805; <https://doi.org/10.3390/molecules27092805> (<https://doi.org/10.3390/molecules27092805>) - 28 Apr 2022


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  [./\(1420-3049/27/9/2804/pdf?version=1651142624\)](#)

Chemical Characteristics of Ethanol and Water Extracts of Black Alder (*Alnus glutinosa* L.) Acorns and Their Antibacterial, Anti-Fungal and Antitumor Properties (1420-3049/27/9/2804)

Molecules **2022**, 27(9), 2804; <https://doi.org/10.3390/molecules27092804> (<https://doi.org/10.3390/molecules27092804>) - 28 Apr 2022



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  [./\(1420-3049/27/9/2803/pdf?version=1651137386\)](#)

Antioxidant Activity of Ruthenium Cyclopentadienyl Complexes Bearing Succinimidato and Phthalimidato Ligands (1420-3049/27/9/2803)

Molecules **2022**, 27(9), 2803; <https://doi.org/10.3390/molecules27092803> (<https://doi.org/10.3390/molecules27092803>) - 28 Apr 2022



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  [./\(1420-3049/27/9/2802/pdf?version=1651134510\)](#)

Tentatively Identified (UPLC/T-TOF-MS/MS) Compounds in the Extract of *Saussurea costus* Roots Exhibit In Vivo Hepatoprotection via Modulation of HNF-1 α , Sirtuin-1, C/ebpa, miRNA-34a and miRNA-223 (1420-3049/27/9/2802)

Molecules **2022**, 27(9), 2802; <https://doi.org/10.3390/molecules27092802> (<https://doi.org/10.3390/molecules27092802>) - 28 Apr 2022



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  [./\(1420-3049/27/9/2801/pdf?version=1651133113\)](#)

Protective, Biostimulating, and Eliciting Effects of Chitosan and Its Derivatives on Crop Plants (1420-3049/27/9/2801)

Molecules **2022**, 27(9), 2801; <https://doi.org/10.3390/molecules27092801> (<https://doi.org/10.3390/molecules27092801>) - 28 Apr 2022

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  [./\(1420-3049/27/9/2800/pdf?version=1651133587\)](#) 

Ameliorative Effect of *Ocimum forskolei* Benth on Diabetic, Apoptotic, and Adipogenic Biomarkers of Diabetic Rats and 3T3-L1 Fibroblasts Assisted by In Silico Approach (1420-3049/27/9/2800)

Molecules **2022**, 27(9), 2800; <https://doi.org/10.3390/molecules27092800> (<https://doi.org/10.3390/molecules27092800>) - 28 Apr 2022


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  [./\(1420-3049/27/9/2799/pdf?version=1651130380\)](#) 

Computational Insight into Biotransformation Profiles of Organophosphorus Flame Retardants to Their Diester Metabolites by Cytochrome P450 (1420-3049/27/9/2799)

Molecules **2022**, 27(9), 2799; <https://doi.org/10.3390/molecules27092799> (<https://doi.org/10.3390/molecules27092799>) - 28 Apr 2022




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  [./\(1420-3049/27/9/2798/pdf?version=1651125153\)](#) 

Enhanced Extraction Efficiency of Flavonoids from *Pyrus ussuriensis* Leaves with Deep Eutectic Solvents (1420-3049/27/9/2798)

Molecules **2022**, 27(9), 2798; <https://doi.org/10.3390/molecules27092798> (<https://doi.org/10.3390/molecules27092798>) - 28 Apr 2022

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  [./\(1420-3049/27/9/2797/pdf?version=1651135457\)](#) 

The Role of *Cannabis sativa* L. as a Source of Cannabinoids against Coronavirus 2 (SARS-CoV-2): An In Silico Study to Evaluate Their Activities and ADMET Properties (1420-3049/27/9/2797)

Molecules **2022**, 27(9), 2797; <https://doi.org/10.3390/molecules27092797> (<https://doi.org/10.3390/molecules27092797>) - 27 Apr 2022



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  [./\(1420-3049/27/9/2796/pdf?version=1651747639\)](#) 

Theoretical Investigation by DFT and Molecular Docking of Synthesized Oxidovanadium(IV)-Based Imidazole Drug Complexes as Promising Anticancer Agents (1420-3049/27/9/2796)

Molecules **2022**, 27(9), 2796; <https://doi.org/10.3390/molecules27092796> (<https://doi.org/10.3390/molecules27092796>) - 27 Apr 2022


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  [./\(1420-3049/27/9/2795/pdf?version=1651141155\)](#)

Binary Effects of Gynostemma Gold Nanoparticles on Obesity and Inflammation via Downregulation of PPAR γ /CEP α and TNF- α Gene Expression (1420-3049/27/9/2795)

Molecules **2022**, 27(9), 2795; <https://doi.org/10.3390/molecules27092795> (<https://doi.org/10.3390/molecules27092795>) - 27 Apr 2022



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Characterization of the Compounds Released in the Gaseous Waste Stream during the Slow Pyrolysis of Hemp (*Cannabis sativa* L.) (1420-3049/27/9/2794)

Molecules **2022**, 27(9), 2794; <https://doi.org/10.3390/molecules27092794> (<https://doi.org/10.3390/molecules27092794>) - 27 Apr 2022

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  [./\(1420-3049/27/9/2793/pdf?version=1651229482\)](#)

Application of Levan-Rich Digestate Extract in the Production of Safe-to-Use and Functional Natural Body Wash Cosmetics (1420-3049/27/9/2793)

Molecules **2022**, *27*(9), 2793; <https://doi.org/10.3390/molecules27092793> (<https://doi.org/10.3390/molecules27092793>) - 27 Apr 2022


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Lymph Nodes Draining Infections Investigated by PET and Immunohistochemistry in a Juvenile Porcine Model (1420-3049/27/9/2792)

Molecules **2022**, *27*(9), 2792; <https://doi.org/10.3390/molecules27092792> (<https://doi.org/10.3390/molecules27092792>) - 27 Apr 2022

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 [.\(1420-3049/27/9/2791/pdf?version=1651068391\)](#)

Synthesis and Investigation of the G-Quadruplex Binding Properties of Kynurenic Acid Derivatives with a Dihydroimidazoquinoline-3,5-dione Core (1420-3049/27/9/2791)

Molecules **2022**, *27*(9), 2791; <https://doi.org/10.3390/molecules27092791> (<https://doi.org/10.3390/molecules27092791>) - 27 Apr 2022


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Synthesis of (Hyper)Branched Monohydroxyl Alkoxysilane Oligomers toward Silanized Urethane Prepolymers (1420-3049/27/9/2790)

Molecules **2022**, *27*(9), 2790; <https://doi.org/10.3390/molecules27092790> (<https://doi.org/10.3390/molecules27092790>) - 27 Apr 2022


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 [.\(1420-3049/27/9/2789/pdf?version=1651063167\)](#)

The Effects of Berry Extracts on Oxidative Stress in Cultured Cardiomyocytes and Microglial Cells: A Potential Cardioprotective and Neuroprotective Mechanism (1420-3049/27/9/2789)

Molecules **2022**, *27*(9), 2789; <https://doi.org/10.3390/molecules27092789> (<https://doi.org/10.3390/molecules27092789>) - 27 Apr 2022


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Efficient Fmoc-Protected Amino Ester Hydrolysis Using Green Calcium(II) Iodide as a Protective Agent (1420-3049/27/9/2788)

Molecules **2022**, *27*(9), 2788; <https://doi.org/10.3390/molecules27092788> (<https://doi.org/10.3390/molecules27092788>) - 27 Apr 2022


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 [.\(1420-3049/27/9/2787/pdf?version=1651066524\)](#)

Anisotropic Reaction Properties for Different HMX/HTPB Composites: A Theoretical Study of Shock Decomposition (1420-3049/27/9/2787)

Molecules **2022**, *27*(9), 2787; <https://doi.org/10.3390/molecules27092787> (<https://doi.org/10.3390/molecules27092787>) - 27 Apr 2022


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 [.\(1420-3049/27/9/2786/pdf?version=1651132199\)](#)

Recovering Microalgal Bioresources: A Review of Cell Disruption Methods and Extraction Technologies (1420-3049/27/9/2786)

Molecules **2022**, *27*(9), 2786; <https://doi.org/10.3390/molecules27092786> (<https://doi.org/10.3390/molecules27092786>) - 27 Apr 2022


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Inverse Boltzmann Iterative Multi-Scale Molecular Dynamics Study between Carbon Nanotubes and Amino Acids (1420-3049/27/9/2785)

Molecules **2022**, *27*(9), 2785; <https://doi.org/10.3390/molecules27092785> (<https://doi.org/10.3390/molecules27092785>) - 27 Apr 2022


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Additive Manufacturing Strategies for Personalized Drug Delivery Systems and Medical Devices: Fused Filament Fabrication and Semi Solid Extrusion (1420-3049/27/9/2784)

Molecules **2022**, *27*(9), 2784; <https://doi.org/10.3390/molecules27092784> (<https://doi.org/10.3390/molecules27092784>) - 27 Apr 2022

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Beneficial Effect of Kidney Bean Resistant Starch on Hyperlipidemia—Induced Acute Pancreatitis and Related Intestinal Barrier Damage in Rats (1420-3049/27/9/2783)

Molecules **2022**, *27*(9), 2783; <https://doi.org/10.3390/molecules27092783> (<https://doi.org/10.3390/molecules27092783>) - 27 Apr 2022


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Polyoxometalate/Cellulose Nanofibrils Aerogels for Highly Efficient Oxidative Desulfurization (1420-3049/27/9/2782)

Molecules **2022**, *27*(9), 2782; <https://doi.org/10.3390/molecules27092782> (<https://doi.org/10.3390/molecules27092782>) - 27 Apr 2022


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 [.\(1420-3049/27/9/2781/pdf?version=1651063970\)](#)

Identification of *p*-Coumaric Acid and Ethyl *p*-Coumarate as the Main Phenolic Components of Hemp (*Cannabis sativa* L.) Roots (1420-3049/27/9/2781)

Molecules **2022**, *27*(9), 2781; <https://doi.org/10.3390/molecules27092781> (<https://doi.org/10.3390/molecules27092781>) - 27 Apr 2022


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Nicotinic Acetylcholine Receptors and Microglia as Therapeutic and Imaging Targets in Alzheimer's Disease (1420-3049/27/9/2780)

Molecules **2022**, *27*(9), 2780; <https://doi.org/10.3390/molecules27092780> (<https://doi.org/10.3390/molecules27092780>) - 27 Apr 2022

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The Potential Role of *Nigella sativa* Seed Oil as Epigenetic Therapy of Cancer (1420-3049/27/9/2779)

Molecules **2022**, *27*(9), 2779; <https://doi.org/10.3390/molecules27092779> (<https://doi.org/10.3390/molecules27092779>) - 27 Apr 2022

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P-Ru-Complexes with a Chelate-Bridge-Switch: A Comparison of 2-Picolyl and 2-Pyridyloxy Moieties as Bridging Ligands (1420-3049/27/9/2778)

Molecules **2022**, *27*(9), 2778; <https://doi.org/10.3390/molecules27092778> (<https://doi.org/10.3390/molecules27092778>) - 27 Apr 2022

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 [.\(1420-3049/27/9/2777/pdf?version=1651139646\)](#)

Essential Oil Composition and Stable Isotope Profile of Cultivated *Ocimum campechianum* Mill. (Lamiaceae) from Peru (1420-3049/27/9/2777)

Molecules **2022**, *27*(9), 2777; <https://doi.org/10.3390/molecules27092777> (<https://doi.org/10.3390/molecules27092777>) - 27 Apr 2022

- Open Access Article   [.\(/1420-3049/27/9/2776/pdf?version=1651032531\)](#) 
- Controlled Decoration of [60]Fullerene with Polymannan Analogues and Amino Acid Derivatives through Malondiamide-Based Linkers** ([/1420-3049/27/9/2776](#))
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- Open Access Review   [.\(/1420-3049/27/9/2775/pdf?version=1651022643\)](#)
- 1*H*-Pyrazolo[3,4-*b*]quinolines: Synthesis and Properties over 100 Years of Research** ([/1420-3049/27/9/2775](#))
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- Open Access Article   [.\(/1420-3049/27/9/2774/pdf?version=1650986719\)](#)
- Lycopodium Mitigates Oxidative Stress and Inflammation in the Colonic Mucosa of Acetic Acid-Induced Colitis in Rats** ([/1420-3049/27/9/2774](#))
Molecules **2022**, *27*(9), 2774; <https://doi.org/10.3390/molecules27092774> (<https://doi.org/10.3390/molecules27092774>) - 26 Apr 2022
- Open Access Review   [.\(/1420-3049/27/9/2773/pdf?version=1651029011\)](#)
- Plant Polysaccharides Modulate Immune Function via the Gut Microbiome and May Have Potential in COVID-19 Therapy** ([/1420-3049/27/9/2773](#))
Molecules **2022**, *27*(9), 2773; <https://doi.org/10.3390/molecules27092773> (<https://doi.org/10.3390/molecules27092773>) - 26 Apr 2022
- Open Access Article   [.\(/1420-3049/27/9/2772/pdf?version=1651022479\)](#)
- Rapid Characterization of Bacterial Lipids with Ambient Ionization Mass Spectrometry for Species Differentiation** ([/1420-3049/27/9/2772](#))
Molecules **2022**, *27*(9), 2772; <https://doi.org/10.3390/molecules27092772> (<https://doi.org/10.3390/molecules27092772>) - 26 Apr 2022
- Open Access Article   [.\(/1420-3049/27/9/2771/pdf?version=1650978626\)](#)
- Preparation, Characterization, and Mechanism of Antifreeze Peptides from Defatted Antarctic Krill (*Euphausia superba*) on *Lactobacillus rhamnosus*** ([/1420-3049/27/9/2771](#))
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- Open Access Article   [.\(/1420-3049/27/9/2770/pdf?version=1652258796\)](#) 
- Multi-State Second-Order Nonlinear Optical Switches Incorporating One to Three Benzazolo-Oxazolidine Units: A Quantum Chemistry Investigation** ([/1420-3049/27/9/2770](#))
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- Open Access Article   [.\(/1420-3049/27/9/2769/pdf?version=1651032729\)](#) 
- Phosphorus Fertilizers from Sewage Sludge Ash and Animal Blood as an Example of Biobased Environment-Friendly Agrochemicals: Findings from Field Experiments** ([/1420-3049/27/9/2769](#))
Molecules **2022**, *27*(9), 2769; <https://doi.org/10.3390/molecules27092769> (<https://doi.org/10.3390/molecules27092769>) - 26 Apr 2022
- Open Access Article   [.\(/1420-3049/27/9/2768/pdf?version=1651045632\)](#)
- Phenolic and Volatile Composition and Antioxidant Properties of the Leaf Extract of *Brassica fruticulosa* subsp. *fruticulosa* (*Brassicaceae*) Growing Wild in Sicily (Italy)** ([/1420-3049/27/9/2768](#))
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- Open Access Review   [.\(/1420-3049/27/9/2767/pdf?version=1650981814\)](#)
- Application of Capillary Electromigration Methods in the Analysis of Textile Dyes—Review** ([/1420-3049/27/9/2767](#))
Molecules **2022**, *27*(9), 2767; <https://doi.org/10.3390/molecules27092767> (<https://doi.org/10.3390/molecules27092767>) - 26 Apr 2022
- Open Access Article   [.\(/1420-3049/27/9/2766/pdf?version=1650977844\)](#) 
- Cationic Axial Ligand Effects on Sulfur-Substituted Subphthalocyanines** ([/1420-3049/27/9/2766](#))
Molecules **2022**, *27*(9), 2766; <https://doi.org/10.3390/molecules27092766> (<https://doi.org/10.3390/molecules27092766>) - 26 Apr 2022
- Open Access Article   [.\(/1420-3049/27/9/2765/pdf?version=1650972295\)](#) 
- Application of a Multilayer Perceptron Artificial Neural Network for the Prediction and Optimization of the Andrographolide Content in *Andrographis paniculata*** ([/1420-3049/27/9/2765](#))
Molecules **2022**, *27*(9), 2765; <https://doi.org/10.3390/molecules27092765> (<https://doi.org/10.3390/molecules27092765>) - 26 Apr 2022
- Open Access Article   [.\(/1420-3049/27/9/2764/pdf?version=1650969437\)](#)
- Losartan Alleviates the Side Effects and Maintains the Anticancer Activity of Axitinib** ([/1420-3049/27/9/2764](#))
Molecules **2022**, *27*(9), 2764; <https://doi.org/10.3390/molecules27092764> (<https://doi.org/10.3390/molecules27092764>) - 26 Apr 2022
- Open Access Communication   [.\(/1420-3049/27/9/2763/pdf?version=1650969009\)](#) 
- New Cysteine-Containing PEG-Glycerolipid Increases the Bloodstream Circulation Time of Upconverting Nanoparticles** ([/1420-3049/27/9/2763](#))
Molecules **2022**, *27*(9), 2763; <https://doi.org/10.3390/molecules27092763> (<https://doi.org/10.3390/molecules27092763>) - 26 Apr 2022
- Open Access Article   [.\(/1420-3049/27/9/2762/pdf?version=1650946087\)](#) 
- Phenolic Profile and Antioxidant, Antibacterial, and Antiproliferative Activity of *Juglans regia* L. Male Flowers** ([/1420-3049/27/9/2762](#))
Molecules **2022**, *27*(9), 2762; <https://doi.org/10.3390/molecules27092762> (<https://doi.org/10.3390/molecules27092762>) - 26 Apr 2022
- Open Access Article   [.\(/1420-3049/27/9/2761/pdf?version=1650951613\)](#) 
- Preparation and Properties of Cyclodextrin Inclusion Complexes of *Hyperoside*** ([/1420-3049/27/9/2761](#))
Molecules **2022**, *27*(9), 2761; <https://doi.org/10.3390/molecules27092761> (<https://doi.org/10.3390/molecules27092761>) - 25 Apr 2022
- Open Access Review   [.\(/1420-3049/27/9/2760/pdf?version=1650897255\)](#)

Delving into the Therapeutic Potential of *Carica papaya* Leaf against Thrombocytopenia (1420-3049/27/9/2760)

Molecules 2022, 27(9), 2760; <https://doi.org/10.3390/molecules27092760> (<https://doi.org/10.3390/molecules27092760>) - 25 Apr 2022

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Enantioselective Organocatalyzed Michael Addition of Isobutyraldehyde to Maleimides in Aqueous Media (1420-3049/27/9/2759)

Molecules 2022, 27(9), 2759; <https://doi.org/10.3390/molecules27092759> (<https://doi.org/10.3390/molecules27092759>) - 25 Apr 2022




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Bovine Serum Albumin-Based Nanoparticles: Preparation, Characterization, and Antioxidant Activity Enhancement of Three Main Curcuminoids from *Curcuma longa* (1420-3049/27/9/2758)

Molecules 2022, 27(9), 2758; <https://doi.org/10.3390/molecules27092758> (<https://doi.org/10.3390/molecules27092758>) - 25 Apr 2022




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Silk Fibroin-Based Biomaterials for Tissue Engineering Applications (1420-3049/27/9/2757)

Molecules 2022, 27(9), 2757; <https://doi.org/10.3390/molecules27092757> (<https://doi.org/10.3390/molecules27092757>) - 25 Apr 2022




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DFT Investigations of Au_n Nano-Clusters Supported on TiO₂ Nanotubes: Structures and Electronic Properties (1420-3049/27/9/2756)

Molecules 2022, 27(9), 2756; <https://doi.org/10.3390/molecules27092756> (<https://doi.org/10.3390/molecules27092756>) - 25 Apr 2022




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  [.\(1420-3049/27/9/2755/pdf?version=1650881249\)](#) 

The Potential Antidepressant Action of Duloxetine Co-Administered with the TAAR1 Receptor Agonist SEP-363856 in Mice (1420-3049/27/9/2755)

Molecules 2022, 27(9), 2755; <https://doi.org/10.3390/molecules27092755> (<https://doi.org/10.3390/molecules27092755>) - 25 Apr 2022




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A Docosahexaenoic Acid Derivative (N-Benzyl Docosahexaenamide) as a Potential Therapeutic Candidate for Treatment of Ovarian Injury in the Mouse Model (1420-3049/27/9/2754)

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Molecules 2022, 27(9), 2750; <https://doi.org/10.3390/molecules27092750> (<https://doi.org/10.3390/molecules27092750>) - 25 Apr 2022




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
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
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- KnockOut of KLF10 Ameliorated Diabetic Renal Fibrosis via Downregulation of DKK-1** [\(/1420-3049/27/9/2644\)](https://doi.org/10.3390/molecules27092644)
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Article

Synthesis and In-Vivo Evaluation of Benzoxazole Derivatives as Promising Anti-Psoriatic Drugs for Clinical Use

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Abstract: 2-(4-Chlorophenyl)-5-benzoxazoleacetic acid (CBA) and its ester, methyl-2-(4-chloro-phenyl)-5-benzoxazoleacetate (MCBA), were synthesized, and their structures were confirmed by ¹HNMR, IR, and mass spectrophotometry. The anti-psoriatic activities of CBA and MCBA were tested using an imiquimod (IMQ)-induced psoriatic mouse model, in which mice were treated both topically (1% *w/w*) and orally (125 mg/kg) for 14 days. The erythema intensity, thickness, and desquamation of psoriasis were scored by calculating the psoriasis area severity index (PASI). The study also included the determination of histopathological alterations in the skin tissues of treated mice. Topical and oral administration of CBA and MCBA led to a reduction in erythema intensity, thickness, and desquamation, which was demonstrated by a significant decrease in the PASI value. In addition, skin tissues of mice treated with CBA and MCBA showed less evidence of psoriatic alterations, such as hyperkeratosis, parakeratosis, scale crust, edema, psoriasiform, and hyperplasia. After administration of either topical or oral dosing, the anti-psoriatic effects were found to be stronger in MCBA-treated than in CBA-treated mice. These effects were comparable to those produced by Clobetasol propionate, the reference drug. This drug discovery could be translated into a potential new drug for future clinical use in psoriasis treatment.

Keywords: synthesis; arylbenzoxazole; psoriasis; imiquimod; in vivo; prodrug



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1. Introduction

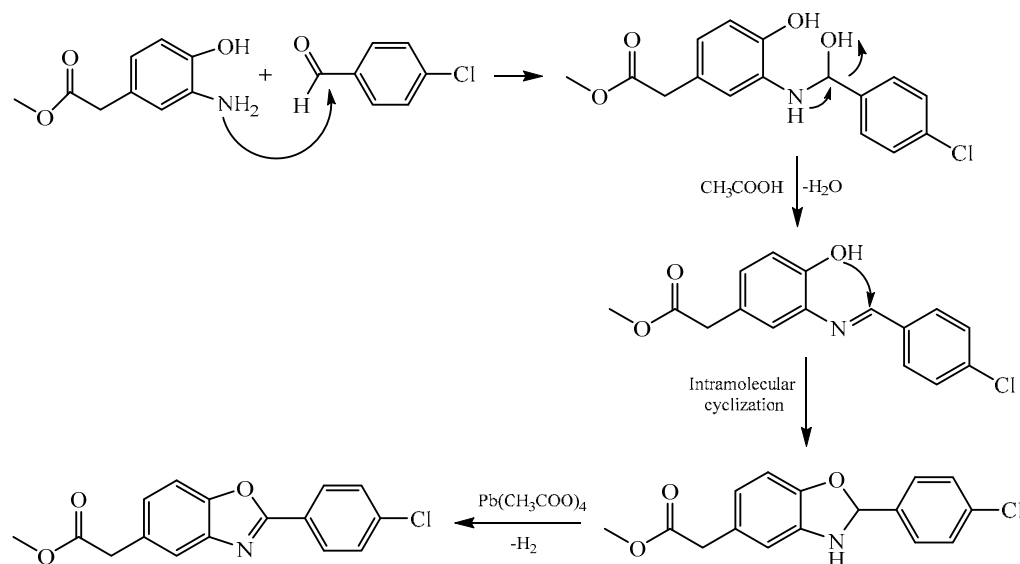
Psoriasis is an immune-mediated disease that has a persistent effect on skin tissues. It is a non-communicable disease that affects around 0.84% of the global population [1]. Patients with psoriasis exhibit several skin abnormalities, such as hyperproliferation, atypical keratinocytes, epidermal hyperplasia, inflammation, leukocyte infiltration, and increased vascularity in the skin layers [2,3]. The diagnostic features of psoriasis include skin redness, thickness, and silver scaly plaques that may cover a focal or wide area of the elbows, knees, scalp, and lumbar region [4]. These features are frequently associated with itching, scaling, burning, erythema, and bleeding [5]. The pathophysiology of psoriasis is related to complex interactions between various immune, cellular, and molecular factors, in addition to the genetic and protein expression of various inflammatory mediators, such as interleukins (IL)- 6, -17, -22, and -23, interferon-gamma (IFN γ), nuclear factor kappa

B (Nf- κ B), and tumor necrosis factor- α (TNF α), as described by Croxford et al. [6], Ha et al. [7], Lowes, Suarez-Farinas, and Krueger et al. [8], and Raphael et al. [9]. From a clinical point of view, psoriasis symptoms are frequently managed by convenient drugs, such as corticosteroids, and immunosuppressive agents, such as methotrexate, vitamin D analogs, and systemic antiproliferative agents, in addition to biological agents, such as infliximab and etanercept [10–12]. However, the therapeutic outcomes of these drugs often result in unsatisfactory progress and may be associated with serious adverse effects, including nausea, swelling, headaches, hair growth, and others [3,13,14]. Therefore, the synthesis and development of novel drugs are necessary to match the current clinical demand for psoriasis treatment and management. Benzoxazole and its derivatives are N-heterocyclic aromatic compounds found in various natural sources, such as fungi, marine life, and plant origins, and medicines, such as flunoxaprofen and benoxaprofen [15]. During the last several decades, benzoxazole and its derivatives have gained a lot of importance because of their extensive biological properties, such as anticancer [16], analgesic [17], antimicrobial [18], neuroprotective [19], inflammatory bowel disease [20], and immunosuppressive [21] activities. According to a previous study, chronic treatment with oral benoxaprofen, a benzoxazole derivative, produced excellent anti-psoriatic effects in human patients, which may partially be attributed to its capability to inhibit epidermal 5-lipoxygenase activity or inhibit the accumulation of phagocytes in psoriatic lesions [22]. Accordingly, the current study was conducted to synthesize two benzoxazole derivatives and evaluate their anti-psoriatic activity using imiquimod-induced psoriasis-like dermatitis in mice.

2. Results

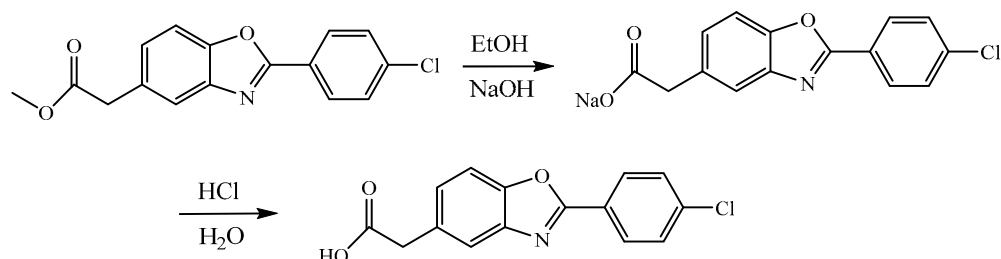
2.1. Synthesis

The synthesis of MCBA was achieved by oxidative coupling of chlorobenzaldehyde with ortho aminophenol in the presence of lead tetraacetate as an oxidizing agent, as Scheme 1 shows. The starting materials, methyl 2-(3-amino-4-hydroxyphenyl)acetate and 4-chlorobenzaldehyde, were obtained from commercially available sources.



Scheme 1. Synthesis of methyl 2-(4-chlorophenyl) benzoxazol-5-yl) acetate (MCBA).

On the other hand, free carboxylic benzoxazole, CBA, was obtained by the hydrolysis of MCBA, as the Scheme 2 below shows:



Scheme 2. Synthesis of 2-(4-chlorophenyl)-5-benzoxazoleacetic acid (CBA).

2.2. Effects of Topical IMQ on Mouse Skin

Three days after starting IMQ treatment, it was observed that the dorsal skin of the treated mice exhibited signs of erythema, thickness, and desquamation compared to the dorsal skin of the negative control group. The phenotypic effects of IMQ are demonstrated in Figure 1A. The maximum erythema score was observed on day 7 with an average of 3.3 (Figure 2A). On the other hand, signs of thickness and desquamation were observed from days 7 to 14 with average scores of 3.3 and 2.8, respectively (Figure 2B and C, respectively). Examination of the histological slides showed that the skin tissues of mice treated with IMQ exhibited acanthosis (thickening of the stratum spinosum layer), hyperkeratosis, and neutrophil infiltration into the epidermis, in addition to subcutaneous hemorrhage and inflammatory cell infiltration in the dermis around sweat glands and between connective tissue and muscles (Figure 3A). The capillaries of the upper and middle portions of the dermis were dilated.

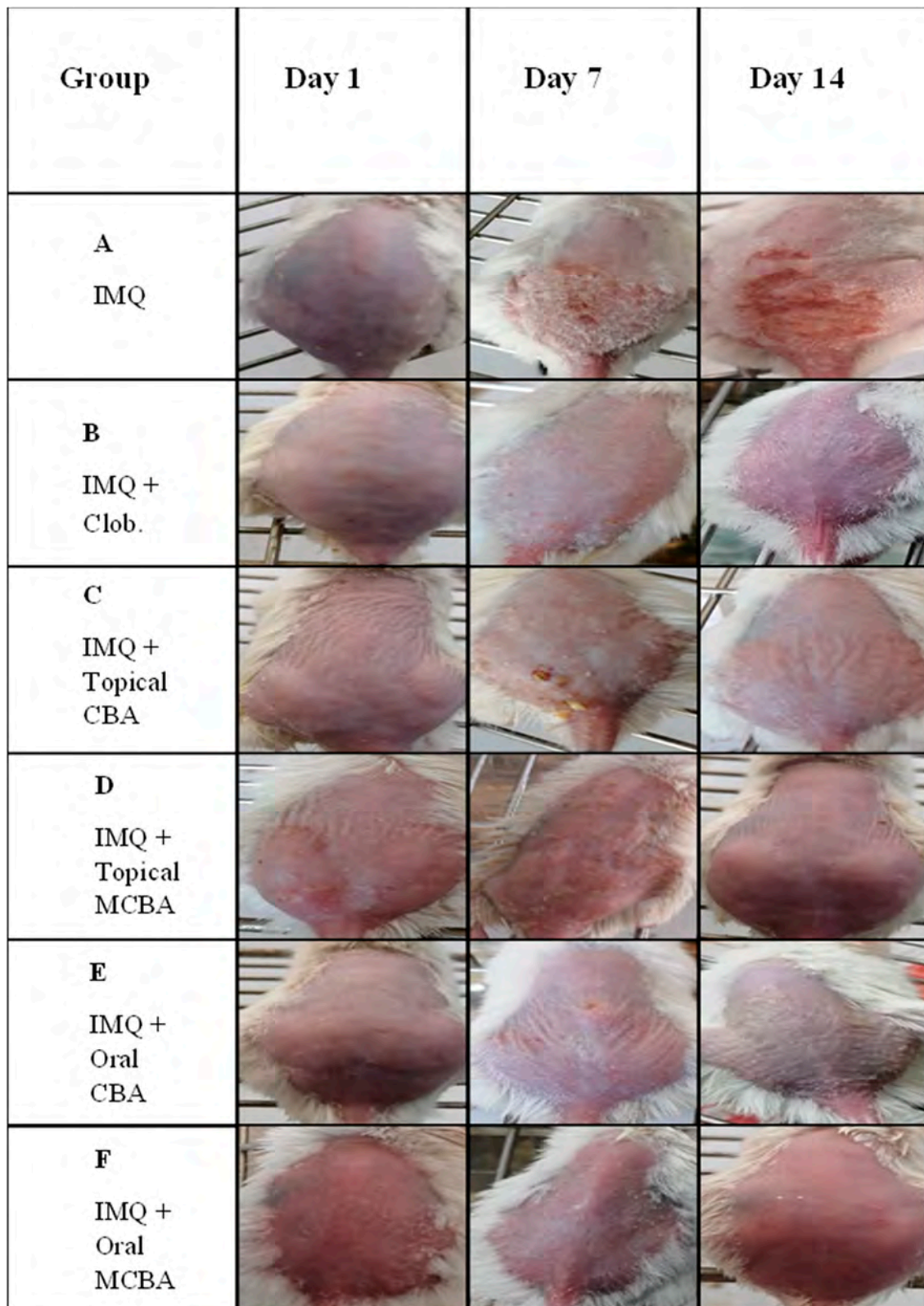


Figure 1. Representative gross skin features in mice of different groups on days 1, 7, and 14. (A) IMQ-treated mice. (B) Clobetasol propionate (Clob)-treated mice. (C) Topical CBA-treated mice. (D) Topical MCBA-treated mice. (E) Oral CBA-treated mice. (F) Oral MCBA-treated mice.

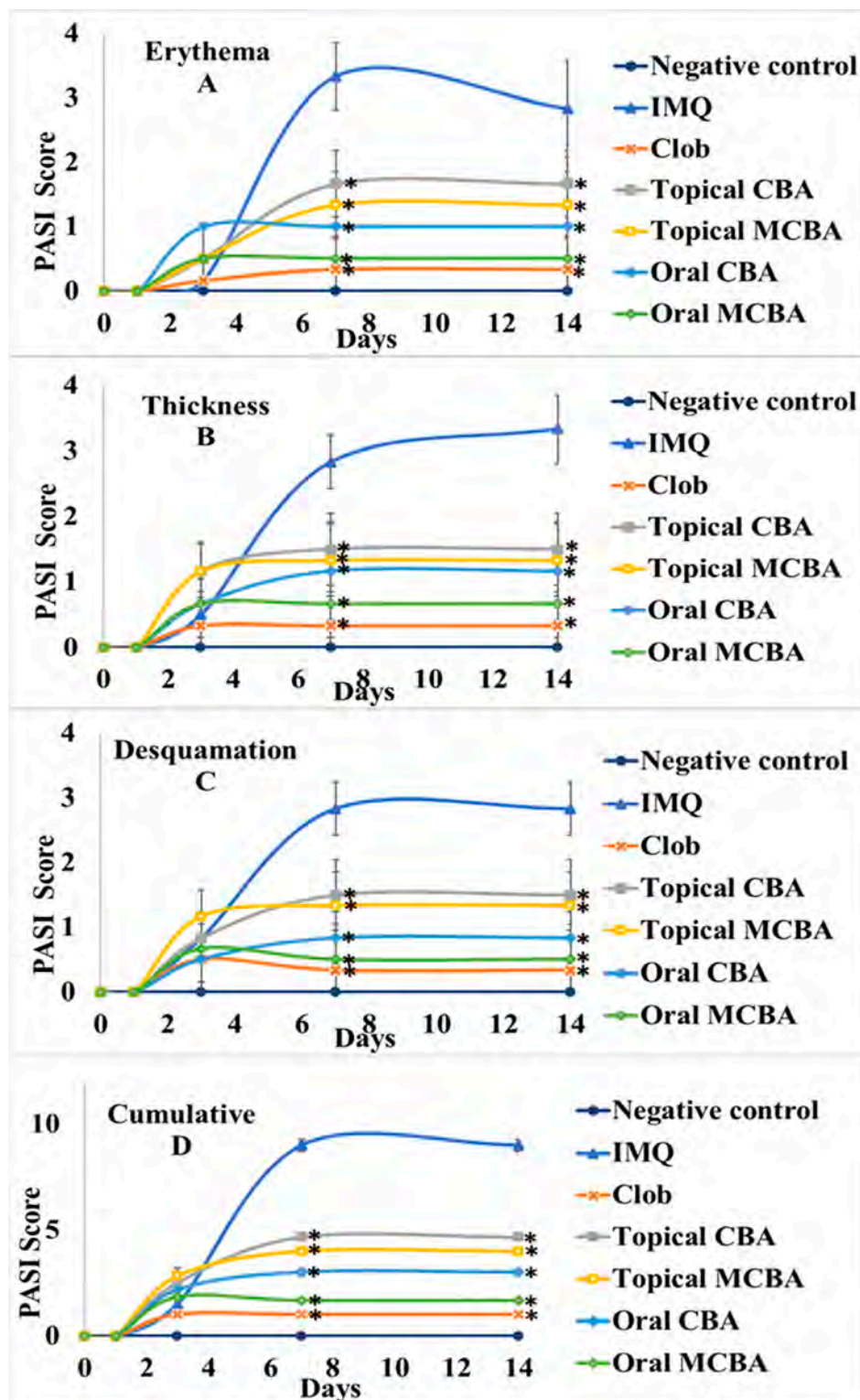


Figure 2. Psoriasis area and severity index (PASI) scores of different groups on days 1, 3, 7, and 14. (A) Erythema score, (B) thickness score, (C) desquamation score and, (D) cumulative score. (*) Indicates significant difference ($p < 0.05$) from IMQ-treated group ($n = 6$).

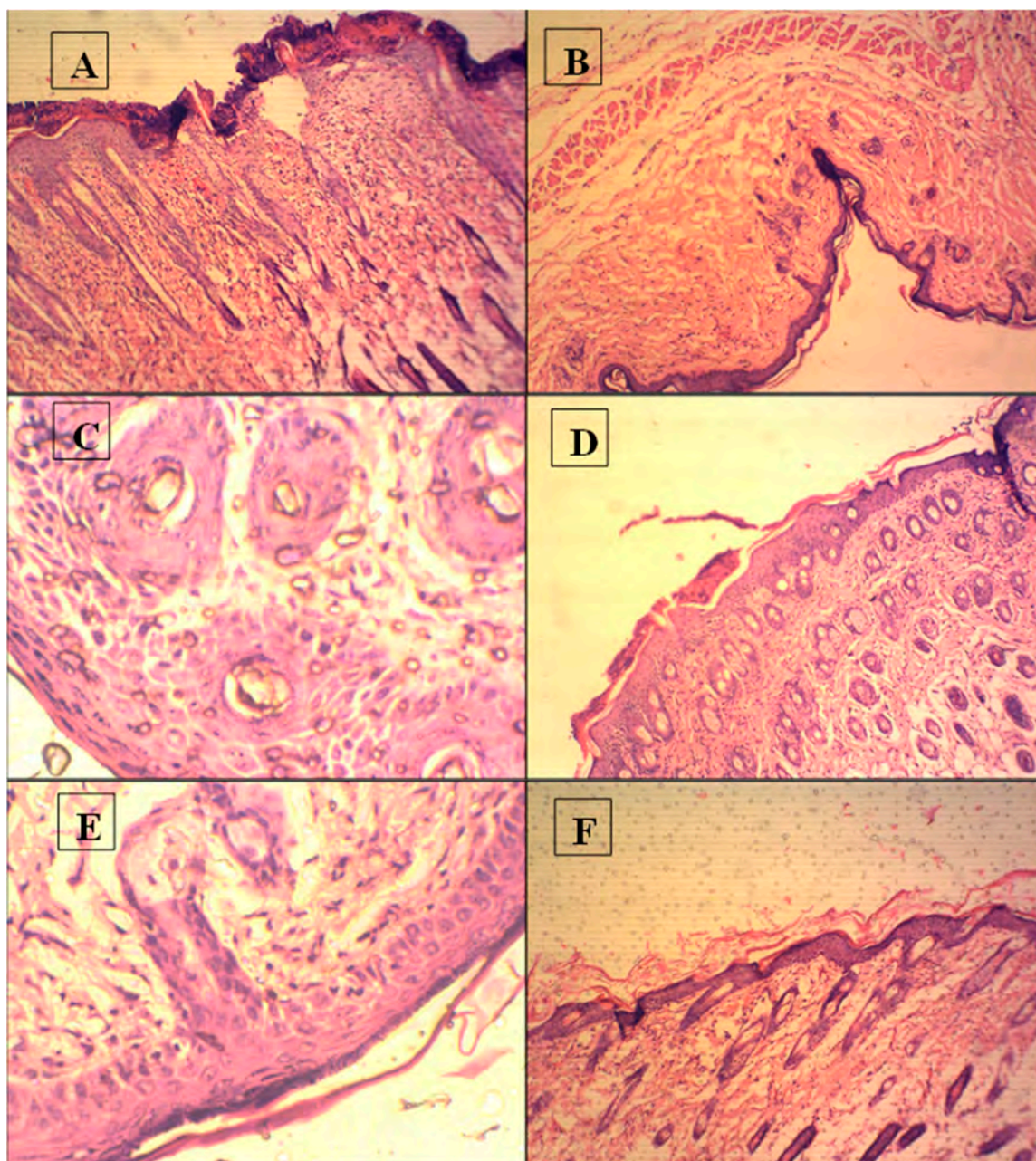


Figure 3. Representative photomicrographs of skin in mice of different groups. (A) IMQ-treated mice showing hyperkeratosis, parakeratosis, scale crust, edema, psoriasiform, and hyperplasia. (B) clobetasol-treated mice showing orthokeratosis. (C) Topical MCBA-treated mice showing hyperkeratosis, parakeratosis, scale crust, hyper granulosis, intact epidermal–dermal junction, focal psoriasiform epithelium, few polymorphs in upper dermis, few extravasates red blood cells, and scattered apoptosis cells in epidermis. (D) Topical CBA-treated mice showing mild hyperkeratosis, parakeratosis, scale crust, edema in upper dermis, neutrophils in upper dermis, and focal psoriasiform hyperplasia. (E) Oral MCBA-treated mice showing focal mild hyperkeratosis, focal parakeratosis, focal hyper granulosis, and intact epidermal–dermal junction. (F) Oral CBA-treated mice showing orthokeratosis, subcutaneous tissue showing pus cells, and necrosis of hypodermis.

2.3. Effects of Clobetasol and Benzoxazole Derivatives on Dermatitis-Like Psoriasis

Gross observations showed that treatment with Clob in addition to MCBA and CBA via either the topical or oral route caused a marked reduction in dermatitis-like psoriasis (Figure 1B–F), which was determined by a significant decrease in PASI erythema

scores (Figure 2A), thickness (Figure 2B), desquamation (Figure 2C), and cumulative score (Figure 2D). Histopathological examination showed that the dorsal skin of mice treated with Clob showed a marked decrease in inflammatory infiltration and hyperplasia of the epidermis (Figure 3B). Topical application of CBA and MCBA caused the partial suppression of IMQ-induced epidermal hyperplasia and a reduction in the number of infiltrated inflammatory cells (Figure 3C,D). On the other hand, oral treatment with CBA and MCBA caused anti-psoriatic effects comparable to Clob, which was manifested by a marked decrease in hyperkeratosis, parakeratosis, hypergranulosis, and psoriasiform hyperplasia (Figure 3E,F). However, the anti-psoriatic effects were more evident in groups treated with MCBA than those treated with CBA.

3. Discussion

3.1. Chemistry

In this study, CBA and MCBA were developed and synthesized as anti-psoriatic agents. According to the literature, several synthetic methods are available to prepare benzoxazole derivatives [23]. One of these synthetic processes involves the coupling reaction of benzaldehyde with an o-aminophenol derivative using lead tetraacetate as an oxidizing agent [16,20]. Some research groups prepared a series of arylbenzoxazoleacetic acid derivatives, including our target CBA, using ethyl 4-chlorobenzimidate hydrochlorides and 3-amino-4-hydroxyphenylacetic acid [24,25]. In this work, we preferred to prepare our target compounds by coupling 4-chlorobenzaldehyde with methyl-3-amino-4-hydroxyphenylacetic acid in the presence of lead tetraacetate. Schiff bases or benzoxazole compounds represent attractive molecular scaffolds of enormous medicinal and industrial relevance. The Schiff base condensation reaction was obtained from the nucleophilic attack of the amine group in methyl 2-(3-amino-4-hydroxyphenyl)acetate with the electrophilic carbon atom of aldehyde of 4-chlorobenzaldehyde to form carbinolamine. After that, under acidic conditions using CH_3COOH , a Schiff base was formed by water elimination. Finally, the intermediate underwent intramolecular cyclization, followed by $\text{Pb}(\text{CH}_3\text{COO})_4$ for oxidation, leading to the formation of MCBA. On the other hand, CBA was synthesized by the hydrolysis of MCBA ester utilizing a mild and rapid procedure with the use of ethanol and sodium hydroxide. The use of this method produced CBA salt, which was acidified using HCl, leading to the formation of CBA. The chemical structures of MCBA and CBA were confirmed by ^1H NMR, FTIR, and mass spectrophotometry. ^1H NMR of CBA showed a singlet at δ 3.73 ppm for the benzylic protons, while in the aromatic region, the spectra showed a doublet at δ 7.3 with a J value of 8.5 Hz, which represents proton #7, a multiplet at δ 7.56–7.59 ppm for three protons, a singlet at δ 7.63 for one proton, and a doublet at δ 8.164–8.181, which represents two protons with a J value of 8.5 Hz. On the other hand, ^1H NMR for MCBA showed almost the same spectra as CBA, except for an additional singlet at δ 3.67 ppm for the methyl ester protons. Concerning FTIR spectra of CBA, it showed characteristic peaks for carbonyl at 1668.85 cm^{-1} and a broad band at 2828.27 cm^{-1} for the OH group. On the other hand, the methyl ester MCBA exhibited a characteristic peak for the ester carbonyl at 1733.29 cm^{-1} in addition to a stretching peak at 1260.32 cm^{-1} for C-O, which was absent in the acid CBA. The mass spectrum for MCBA showed peaks at m/z 302 for the molecular ion $[\text{M}+\text{H}]^+$. In addition, the MCBA spectrum showed a base peak at m/z 230, which represents MCBA after losing the methylacetate side chain. The mass spectra for CBA showed peaks at m/z 288 for the molecular ion $[\text{M}+\text{H}]^+$. The product yield was relatively sufficient, indicating the suitability of this method for the synthesis of both CBA and MCBA for further experimental applications.

3.2. Anti-Psoriatic Activity

Psoriasis is an autoimmune disease and is typically diagnosed based on physical (macroscopic) and microscopic examinations [26]. Gross skin alterations include signs of erythema, desquamation, and thickness [27]. On the other hand, histopathological alterations of psoriasis include parakeratosis, a diminished or nonexistent granular layer,

papillomatosis, acanthosis, chronic inflammation, dilatation of capillaries, edema, and abscess (collection of neutrophils) in the stratum corneum [28]. For experimental evolution, topical IMQ application on the dorsal back skin of the mice has been used as a valid model for the induction of dermatitis-like psoriasis. This model has been frequently used for screening possible anti-psoriatic drugs [29]. Despite clinical progress in the treatment of various diseases, no effective and safe drug for the treatment of psoriasis has been found. Systemic steroids have been frequently used as the treatment of choice for the management of psoriasis, but these drugs are often associated with several clinical limitations [27]. From the pharmacological point of view, the anti-psoriatic effects of steroidal drugs have been shown to relapse after discontinuation of the treatment [30]. In addition, tolerance occurs with long-term use of these medications, as patients no longer respond to the treatment, and escalating doses are needed to maintain the therapeutic effects [31]. Treatment with these drugs is also associated with dermatological and systemic adverse effects, such as skin atrophy, striae, acne, weight gain, water retention, swelling, diabetes, and osteoporosis [32]. Together, these adverse effects suggest the need for a novel drug regimen that possesses greater therapeutic benefits and fewer adverse effects. In this study, a benzoxazole derivative, CBA, and its prodrug, MCBA, were synthesized and evaluated as promising drugs for psoriasis treatment. The benzoxazole family group of chemicals exert a wide range of pharmacodynamics with potent immunosuppressive and anti-inflammatory effects [33]. One line of evidence demonstrated that benzoxazole derivatives have immune-modulatory effects on T-lymphocyte activity that contribute to the pathogenesis of psoriasis [21]. On the other hand, prodrugs have been used as effective drug carriers for enhancing therapeutic activity and reducing drug toxicity [34]. A prodrug is an inactive substance that undergoes metabolic or physicochemical changes in the body that produce a pharmacologically active agent [35]. The main function of prodrugs is to enhance pharmacokinetics and deliver drugs in sufficient concentrations to the target site of action [36]. The findings of the current work showed that both oral and topical administration of CBA and MCBA produced considerable anti-psoriatic effects, which were demonstrated by a significant decrease in PASI scores and histopathological alterations as compared to those of IMQ-treated mice. These effects were more pronounced in animals that were administered oral doses compared to those given topical treatments. In addition, MCBA produced a stronger inhibitory effect on various parameters in the mice than CBA. Together, these results indicate that both MCBA and CBA are effective drugs for psoriasis treatment and management. The increase in drug activity after oral administration compared to those of topical treatments could be due to improved pharmacokinetics, thus allowing for stronger molecular effects at the target site of action. In addition, MCBA showed a stronger anti-psoriatic effect, which could be partially attributed to its enhanced lipophilicity, which may lead to an increase in systemic bioavailability.

4. Materials and Methods

4.1. Chemicals

Chemicals of synthetic grade were used. The chemicals were purchased from various companies: (1) Methyl 2-(3-amino-4-hydroxyphenyl)acetate from Abcr (Karlsruhe, Germany); (2) 4-chlorobenzaldehyde, ethanol, dimethylsulfoxide (DMSO), and hydrochloric acid (HCl) from Acros (Geel, Belgium); (3) glacial acetic acid, lead tetraacetate, and sodium hydroxide from Sigma (St. Louis, MO, USA); (4) Clobetasol propionate (Clob) from GSK (London, UK); and (5) imiquimod (IMQ) cream (Aldara) from Meda (Bad Homburg, Germany).

4.2. Instruments

Gas chromatography/mass spectrometry (GC/MS) real-time analysis software from Craig S Young. Sr. Technical Support (Shimadzu Scientific Instruments, Tokyo, Japan) was used. Fourier transform infrared (FT-IR) spectra (from 500 to 4000 cm^{-1}) of the products were recorded using a Thermo Nicolet 670 Nexus NFT-IR spectrophotometer

from Thermo Scientific (Massachusetts, MA, USA). $^1\text{H-NMR}$ spectra were recorded on a Bruker 500 MHz-Avance III (Billerica, Massachusetts, MA, USA). A microtome (Anglia Scientific 0325 Instruments, Cambridge, England), microscope (Nikon, Tokyo, Japan), and Fujisan digital caliper (Fujisan, Japan) were used in this study.

4.3. Synthesis of Methyl 2-(2-(4-Chlorophenyl)benzo[d]oxazol-5-yl)acetate (MCBA)

Methyl 2-(3-amino-4-hydroxyphenyl)acetate (2.0 g, 0.011 mol) was dissolved in 15 mL of absolute ethanol in a round-bottom flask with a capacity of 50 mL, and 4-chlorobenzaldehyde (1.54 g, 0.011 mol) was then added. The reaction mixture was stirred with continuous reflux for 4 h. The resulting mixture was evaporated under reduced pressure to obtain viscous material that was then dissolved in a suitable volume (15–20 mL) of hot glacial CH_3COOH , treated directly with $\text{Pb}(\text{CH}_3\text{COO})_4$ (5.7 g, 0.013 mol), and stirred until it reached room temperature (25 °C). The resulting crystalline solid was filtered on cellulose filter paper, washed with distilled water, recrystallized with ethanol, and then dried to give 2.3 g of MCBA; yield 70%; m.p. 140–144 °C; FTIR (cm^{-1}): 1733.29 cm^{-1} (C=O), 1260.32 cm^{-1} (C-O). $^1\text{H-NMR}$ (CD_3CN), δ ppm 3.67 (s, 3H, OCH_3), 3.78 (s, 2H, benzylic H), 7.318–7.335 (d, 1H, $J = 8.5$ Hz, ArH), 7.59–7.62 (m, 3H, ArH), 7.65 (s, 1H, ArH), 8.186–8.203 (d, 2H, $J = 8.5$ Hz, ArH). MS (ESI) m/z : Calcd for $\text{C}_{16}\text{H}_{13}\text{ClNO}_3$ [$\text{M}+\text{H}$] $^+$: 302.0505. Found: 302.0514.

4.4. Synthesis of 2-(4-Chlorophenyl) benzoxazol-5-yl acetic acid (CBA)

Synthesis of CBA was performed via hydrolysis of MCBA (1.0 g, 0.0034 mol), which was dissolved in 90% ethanol (50 mL), treated with NaOH (0.6 g, 0.015 mol), and stirred at room temperature (25 °C) for 3 h. The ethanol was then evaporated, and the residue was collected and poured into a mixture of crushed ice (20 mL) and concentrated HCl (2 mL). A white solid crystal precipitated and was filtered with a Buchner funnel and then recrystallized with ethanol to give 0.75 g solid product; 79% yield; m.p. 182–185 °C; FTIR (cm^{-1}): 1668.85 (C=O acid), 2828.27 cm^{-1} (OH). $^1\text{HNMR}$ (CD_3CN) δ ppm: 3.73 (s, 2H, benzylic H), 7.29–7.31 (d, 1H, $J = 8.5$ Hz, ArH), 7.56–7.59 (m, 3H, ArH), 7.63 (s, 1H, ArH), 8.164–8.181 (d, 2H, $J = 8.5$ Hz, ArH). MS (ESI) m/z : Calcd for $\text{C}_{15}\text{H}_{11}\text{ClNO}_3$ [$\text{M}+\text{H}$] $^+$: 288.0349. Found: 288.0352.

4.5. Animal Husbandry and Care

Male BALB/c mice of the same age (6–8 weeks) were used in the current work as the model of choice for the evaluation of psoriasis. Mice were obtained from Isra University, kept under controlled temperature (20 ± 2 °C) and humidity (60 ± 5 °C), and given free access to tap water and food pellets. All animal manipulation and handling were conducted according to the Guide for the Care and the Use of Laboratory Animals [37]. The animal use protocol was approved by the Scientific Research Ethics Committee of Isra University (SREC/21/12/018).

4.6. Animal Groups and Treatments

Mice were separated into seven groups ($n = 6$ mice/group); one was a negative control group that did not receive any treatments, while the other six groups were given different treatments, as shown in Table 1. The procedure for induction of psoriasis was obtained from previous studies [29]. In brief, the back dorsal skin of mice was shaved, and topical IMQ cream was then applied daily (5% w/w at a dose of 62.5 mg) for 14 days.

Table 1. Experimental groups in anti-psoriatic activity experiments.

Group Number	Group Type	Description
Group I	Negative control	Each mouse did not receive any treatment

Table 1. *Cont.*

Group Number	Group Type	Description
Group II	Model control	Each mouse received a daily dose (62.5 mg) of 5% IMQ cream that was topically applied on the shaved dorsal skin
Group III	Positive control	Each mouse received a daily dose (62.5 mg) of 5% IMQ cream that was topically applied on the shaved dorsal skin + topical administration of Clob 0.05% cream
Group IV	Topical MCBA	Each mouse received a daily dose (62.5 mg) of 5% IMQ cream that was topically applied on the shaved dorsal skin + topical administration of 1% MCBA
Group V	Topical CBA	Each mouse received a daily dose (62.5 mg) of 5% IMQ cream that was topically applied on the shaved dorsal skin + topical administration of 1% CBA
Group VI	Oral MCBA	Each mouse received a daily dose (62.5 mg) of 5% IMQ cream that was topically applied on the shaved dorsal skin + oral administration of MCBA (120 mg/kg)
Group VII	Oral CBA	Each mouse received a daily dose (62.5 mg) of 5% IMQ cream that was topically applied on the shaved dorsal skin + oral administration of CBA (120 mg/kg)

4.7. Scoring the Severity of Psoriasis-like Dermatitis

The intensity of erythema, thickness, and desquamation of the affected dorsal skin of mice was scored independently by calculating PASI on a 4-point scale (0 indicated no observed change, 1 indicated slight change, 2 indicated moderate change, 3 indicated marked change, and 4 indicated severe change). The cumulative scores (erythema plus scaling plus thickness) were used to determine the severity of skin inflammation, which ranged from 0 to 12. Skin thickness measured by digital caliper, in addition to erythema and desquamation, was observed daily over the 14 days of the study.

4.8. Histological Examinations

Preparation of histological slides was performed according to a previously described procedure (Pang et al., 2018) [38]. After animals were sacrificed with an overdose inhalation of diethyl ether, skin tissue samples were removed and fixed in 10% neutral-buffered formaldehyde. The samples were then dehydrated with ethanol, cleared with xylene, and embedded in paraffin blocks. The paraffin sections were cut to 5 μ m thick and stained with hematoxylin and eosin before being observed under a light microscope.

4.9. Statistical Analysis

Data obtained from PASI scoring analysis are presented as mean \pm standard deviation (S.D.). GraphPad Prism software, version 8, was used to assess significant differences between the experimental groups using one-way analysis of variance (ANOVA) followed by Tukey's post hoc test for multiple comparisons. A statistically significant difference was defined as a $p < 0.05$.

5. Conclusions

Based on the findings of the current work, it can be concluded that benzoxazole derivatives are promising candidates for causing a reduction in inflammatory and psoriatic symptoms in mice with psoriasis-like dermatitis. However, developing these compounds as prodrugs may present great potential to enhance their anti-psoriatic effects. Further studies are needed to assess the toxicity, pharmacokinetics, and molecular mechanisms of their pharmacological actions in preclinical experiments before performing clinical investigations.

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Sample Availability: Samples of the compounds are available from the authors.

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5. Conclusions

Based on the findings of the current work, it can be concluded that benzoxazole derivatives are promising candidates for causing a reduction in inflammatory and psoriatic symptoms in mice with psoriasis-like dermatitis. However, developing these compounds as prodrugs may present great potential to enhance their anti-psoriatic effects. Further studies are needed to assess the toxicity, pharmacokinetics, and molecular mechanisms of their pharmacological actions in preclinical experiments before performing clinical investigations.

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Institutional Review Board Statement: The animal study protocol was approved by the Scientific Research Ethics Committee of Isra University (SREC/21/12/018). All animal manipulation and handling were conducted according to the Guide for the Care and the Use of Laboratory Animals.

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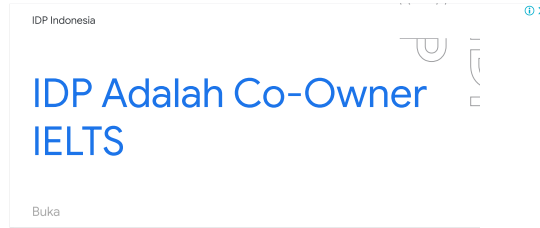
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Conflicts of Interest: The authors declare no conflict of interest.

Sample Availability: Samples of the compounds are available from the authors.

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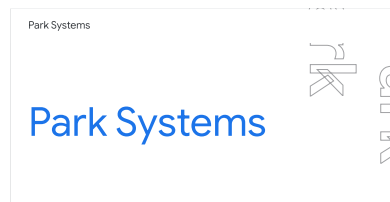
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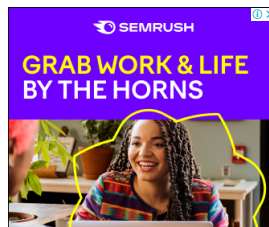
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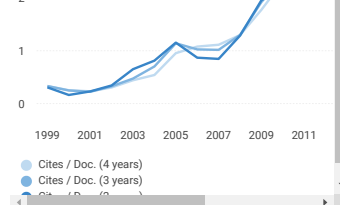
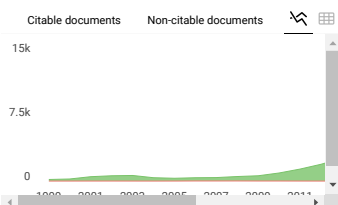
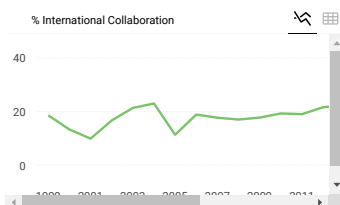
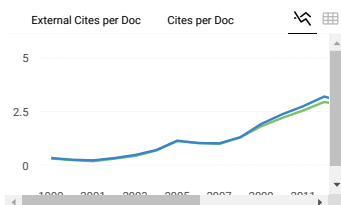
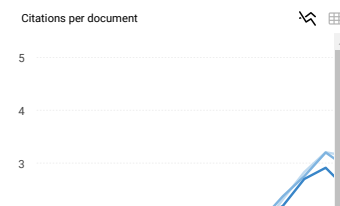
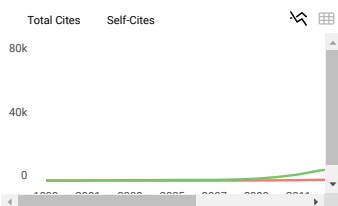
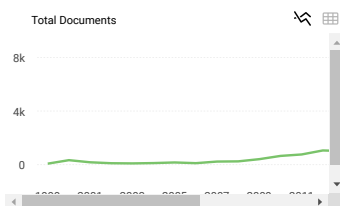
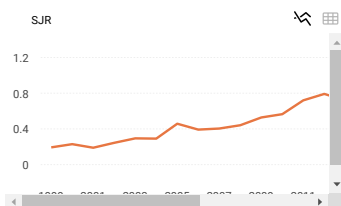
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