

Tentative Outline

Special/Thematic Issue for the journal "Current Topics in Medicinal Chemistry"

Title of the Thematic Issue: Medicinal Chemistry Advancement in Life-Threatening Diseases

Guest Editor: Dr. Ajmal Khan

• **Scope of the Thematic Issue:**

The current issue will highlight concise reports that specify ground-breaking insights, including the novel discovery of drug targets and their action mechanism or drugs of novel classes. These are projected to encourage medicinal chemistry future efforts to address the most challenging medical needs. The current issue highlights further efforts to enhance the services for the Medicinal Chemistry community. By establishing a parallel Topical Collection, we will give more information than just the quick highlights. These recurring extended contributions in the selected hot topics will detail the contextual background to improve, illustrating their great potential and influencing future Medicinal Chemistry and Drug Discovery methods. As a result, the current topical selection will provide a distinctive platform to be aware promptly of current ultimate chosen challenges and promising findings in the field of Drug discovery and Medicinal Chemistry.

Keywords: Drug Discovery, Medicinal Chemistry, drug mechanism, small inhibitors, Peptides inhibitors, Antibodies.

Sub-topics:

- Cancer Drug Designing
- Causes of Alzheimer's Disease and Treatment Strategies
- Finding New Therapies for Tropical/Neglected Diseases
- Understanding The Human Proteome's Ligand Capability with Functionalized Enantiomeric Probes
- Novel Methods for Cancer-Targeted Therapy
- Novel Antibody Drug Discovery
- Multivalent DNA-Based Molecules
- A Potentially Effective Therapeutic Biological Target: Inflammasome
- Novel Approaches for Pan-B-Lactamases Inhibitors
- Novel Methods in Prodrug Strategies
- Self-Assembled Antimicrobial Peptide Upcoming Trends
- Inhibitors of Metalloenzymes as Anticancer Drug
- Advanced Methods in Antitumoral Therapy
- Current Trends in Siderophores Chemistry
- Photoactivatable Molecules as Therapeutic Agents
- Finding New Drugs to Fight Gram-Negative Bacteria
- Potential Uses of Antimicrobial Peptides as Cancer Treatments
- Novel Treatment Medications for Dementia and Neurodegeneration Targeting Different Pathways
- Development and Characterization of Radiopharmaceuticals
- Cancer Stem Cells Therapeutics
- Enhancing Innate Immunity for Antiviral Treatments
- Potential Synthetic Strategies to New Anticancer Drugs (Small Molecules) Inspired by Natural Compounds
- Combating Resistant Pathogens Using Novel and Efficient Strategies
- Discovery of New Antibiotics to Fight Resistant Strains
- Neurological Disorders Therapy by Novel Strategies
- The Search for More Accurate In-Silico Druggability Prediction Tools
- Target Fishing In-Silico Platform Development

Tentative titles of the articles:

- Phytochemicals for cancer treatment: an update on plant-derived anti-cancer compounds and their mechanism of action

Schedule:

- ✧ Thematic issue submission deadline: 30th July 2023

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