

Tentative Outline

Special Thematic Issue for the journal Current Molecular Pharmacology

Title of the Thematic Issue: "Enzymes in Drug Discovery"

Guest Editor: Dr. Ercüment Aksakal

• Scope of the Thematic Issue:

The thematic issue 'Enzymes in Drug Discovery' is interested in complete accounts of research of outstanding significance on all aspects of target enzymes in drug discovery. The issue will accept original reports and reviews of experimental results in enzyme purification and characterization, medicinal chemistry, enzyme inhibitors, drug discovery and design, emphasizing new and emerging advances and concepts in these fields. The aim of the issue is to promote a better understanding of the roles of enzymes in diseases and their potential to be drug targets as well as the interaction of these enzymes with chemical agents.

Keywords: enzyme, inhibitor, medicinal chemistry, drug design, computational, therapeutic, pharmacology

Sub-topics:

The sub-topics to be covered within the issue should be provided:

- Medicinal chemistry of disease targets
- Discovery and design of potent novel compounds effective on specific enzymes
- Structure-activity relationships and pharmacological issues relevant to drug design
- Computational techniques in parallel with experimental data
- Novel therapeutic compounds
- Purification and characterization of enzymes important in pharmacology and medicinal chemistry
- Development of materials as specific enzyme inhibitors

Tentative titles of the articles:

- Enzyme inhibitors in drug discovery
- Antioxidant enzymes in drug design
- Recent developments in drug discovery
- Design and application of therapeutic enzymes
- Dietary bioactive compounds and applications
- Carbonic anhydrase inhibitors in drug discovery
- Discovery and molecular pharmacology of potassium channel modulators
- SAR studies in molecular pharmacology
- Small molecular drug discovery
- Molecular Pharmacology and Drug Design
- Molecular Pharmacology and Drug Design
- Proteases and Drug Design.
- Medicinal plants

Schedule:

✧ Thematic issue submission deadline: **15 September 2022**

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