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Design, Synthesis, Evaluation and Biopharmaceutical Uses of Imatinib, Nilotinib and Their Analogues

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Deadline for manuscript submissions:
25 March 2025

Message from the Guest Editors

Dear Colleagues,

In 2001, a revolutionary drug, which turned out to be very effective for the treatment of chronic myeloid leukemia (CML), was approved and released, changing the approach of cancer's target therapy. The active substance, named Imatinib, was designed to deactivate a specific protein kinase, a fused BCR-ABL tyrosine protein kinase, terminating the cell signaling pathway that was responsible for the uncontrolled proliferation of white blood cells.

With Imatinib as the starting point, the innovative approach of blocking problematic protein kinase with low-molecular-weight molecules, usually by binding with the ATP-binding sites, led to the synthesis of a series of protein kinase inhibitors.

We focuses on state-of-the-art research works related to the following:

- The design of new synthetic approaches of Imatinib and Nilotinib;
- The development of their novel analogues;
- The evaluation of their biological properties and selectivity;
- Their biopharmaceutical uses.

We invite you to submit your original research articles for publication in this Special Issue.

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Message from the Editor-in-Chief

Because of your expertise in the field of drug sciences, I kindly invite you to consider publishing your current work, in the form of a research article or a review, in the open access electronic journal *Pharmaceuticals*.

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We hope to handle your contribution to *Pharmaceuticals* soon.

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