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Receptor Tyrosine Kinases as Drug Targets: Present Status and Future Directions

Guest Editor:

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Deadline for manuscript submissions:
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Message from the Guest Editor

Dear Colleagues,

Receptor tyrosine kinases (RTKs) comprise about 58 members and share common structural motifs, including an extracellular ligand binding domain, a helix that transverses the cell membrane and an intracellular a regulatory juxtamembrane region, a kinase domain and a C- terminal domain. RTKs modulate diverse cellular processes whose deregulation has been implicated in diseases such as cancer, neurodegenerative diseases, heart disease, developmental disorders and substance abuse. In recent years, growing evidence for the role of collagen-binding RTKs in various disease processes has also been reported. While RTKs are generally viewed in the context of drug inhibition, particularly in cancer, recent studies have identified roles for RTK agonists particularly in the treatment of substance abuse disorders. Lastly, RTK ligands provide powerful chemical tools for analysing cellular signalling pathways. This review aims to provide novel insights on the present status and future directions of RTKs as druggable targets.

You are cordially invited to contribute in these topics or novel ones of your choosing to this timely Special Edition.

Dr. John Patrick Alao
Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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