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cGMP Signaling: From Bench to Bedside

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Soluble guanylyl cyclase (sGC) was originally discovered as a cellular receptor for gaseous secondary messenger Nitric Oxide (NO). Upon binding of the NO molecule to sGC heme, the sGC enzyme activates the conversion of GTP to ubiquitous secondary messenger cGMP thereby multiplying and propagating downstream signaling of the cascade. Since the original discovery of sGC's role in vascular regulation, NO/cGMP-signaling importance was demonstrated in a multitude of physiological and pathophysiological processes. The critical role sGC plays in the homeostasis of the cardiovascular, pulmonary, gastrointestinal, renal and neuronal systems established this enzyme as a prominent therapeutic target. Currently, a growing number of sGC-targeting drugs to combat various diseases has been identified and tested in various disease models or clinical trials.

This Special Issue will explore emerging applications of sGC targeted therapeutics to modulate NO/cGMP signaling activity to tackle an array of new diseases such as ischemia, fibrosis and cancer proliferation, to name a few. Research articles/reviews related to this topic are welcome in this issue.

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Editor-in-Chief

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Message from the Editor-in-Chief

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