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Targeting TRP Channels for Pain, Itch and Inflammation Relief

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Deadline for manuscript submissions:
closed (30 August 2023)

Message from the Guest Editors

Dear Colleagues,

Transient Receptor Potential (TRP) channels are multifunctional signaling molecules with important roles in sensory perception and cellular physiology. More than two decades of intensive preclinical and clinical research supports the involvement of TRP channels in pain, itch, and neurogenic inflammation. In fact, a number of potent small molecule TRPA1 and TRPV1 antagonists have already been advanced into clinical trials for the treatment of inflammatory and neuropathic pain. Other TRP channels (e.g. TRPV2, TRPV3, TRPM2, TRPM3, TRPM8 and TRPC4/C5) are also of significant interest.

This Special Issue will review the preclinical promise and therapeutic value of TRP channel modulators aimed both established and emerging targets, along with the challenges that these compounds may face in clinical practice. Experimental and clinical studies with pain, itch and inflammation will be discussed, along with the emerging roles of TRP gene polymorphism and epigenetic regulation in disease risk and altered sensory perception. Critical review articles of old concepts and new thoughts are also welcome for consideration.

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Message from the Editor-in-Chief

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