

Special Issue

Dissecting the Purinergic Signaling Puzzle

Message from the Guest Editors

Purinergic signaling represents an expanding field involved in the regulation of a plethora of physiological processes in different tissues and systems. One interesting feature that characterizes the purinergic network and makes it more complex and interesting than the rest of neurotransmitter systems is the numerous components integrating into a multistep cascade called “purinome”. In order to better understand the physiological relevance of nucleotide signaling, it should be considered as a whole, having an integrative view of all these elements and their relationships. The purinergic system includes nucleotide and adenosine receptors, and enzymatic and transporter activities interconverting nucleotides and nucleosides and connecting the intra- and extracellular spaces to regulate purinergic messenger availability. The aim of this Special Issue is to cover different key components of the purinergic system, regarding how they interact and work together in a coordinate fashion to shape and modulate the final biological response.

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