

Special Issue

Molecular Biology of Histamine Systems 2.0

Message from the Guest Editors

Histamine is arguably the most pleiotropic transmitter in the human body. Despite over a century of study since the first seminal work of Sr Henry Dale, who first identified an action for histamine on living tissue, and with significant advances in histamine pharmacology and drug development, with successful drug targeting three of the four histamine receptors, H1-4R, we are still lacking in a full understanding of the molecular biology of the histamine system. Histamine is synthesized from the amino acid histidine via the enzyme, histidine decarboxylase (HDC). The histamine receptors are classic G-protein coupled receptors. Despite the importance of histamine, transcriptional regulation of histamine receptor and HDC gene expression in mammals is still poorly understood. Furthermore, there are significant deficits in our knowledge regarding native histamine signaling pathways. This themed volume will endeavor to extend our understanding of these important issues.

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