



Histamine: Biology and Medical Aspects

Editor
A. Falus

Co-Editors
N. Grosman
Zs. Darvas

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L-histidine

histamine

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Co-Editors: Grosman, N. (Copenhagen);
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Histamine, discovered in 1910 by the British physiologist Sir Henry H. Dale, has become one of the most important biogenic amines in medicine and biology. In addition to the three well-known functions – contraction of smooth muscles, increase in vascular permeability, and stimulation of gastric acid secretion – histamine has been known to play a role in neurotransmission, immunomodulation, the regulation of cell proliferation, and other areas.

This book provides a comprehensive overview of histamine biology including structure, anabolic and catabolic enzymes, receptors and their ligands. It outlines the details of histamine physiology such as its role in the immune response, nutrition and neuro- and psychobiology, and covers medical fields like allergy, gastroenterology, oncology, sepsis, posttraumatic stress, embryonic development and hematopoiesis. The structural and functional genomics of histamine are also considered.

Presenting the most recent advances in histamine research from basic science to clinical medicine, this book is a valuable source for students, graduates and postgraduates in medicine and the life sciences, and for anyone interested in this multifaceted molecule.

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