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Gasotransmitters: Physiology and Pathophysiology



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Editors: Anton Hermann, University of Salzburg, Austria; Guzel F. Sitdikova, Kazan Federal University, Russia; Thomas M. Weiger, University of Salzburg, Austria

Gasotransmitters: Physiology and Pathophysiology

Since the epochal discovery of the radical and highly toxic gas nitric oxide (NO) as a signaling molecule, two other no less toxic gases – carbon monoxide (CO) and hydrogen sulfide (H₂S) – have been found to also be involved in a plethora of physiological and pathophysiological functions. The gases termed *gasotransmitters* play an increasingly important role in understanding how signalling into and between cells is modulated and fine-tuned. The advent of gasotransmitters has profoundly changed our way of thinking about biosynthesis, liberation, storage and action mechanisms in cellular signaling. In recent years an impressive amount of new data, distributed throughout the existing literature, has been generated. For this book the editors have recruited distinguished colleagues in the field to summarize and review important biological, pharmacological and medical functions and their implications, as well as methods for the detection of gasotransmitters.

Contents: Nitric Oxide: Biological Synthesis and Functions (U. Förstermann and H. Li); The Role of Carbon Monoxide as a Gasotransmitter in Cardiovascular and Metabolic Regulation (A.A. Untereiner, L. Wu and R. Wang); Physiological and Pathophysiological Functions of Hydrogen Sulfide (H. Kimura); Methods for the Detection of Gasotransmitters (H. Peng, W. Chen and B. Wang); Gasotransmitters in Regulation of Neuromuscular Transmission (G.F. Sitdikova and A.L. Zefirov); Modulated by Gasotransmitters - BK Channels (A. Hermann, G.F. Sitdikova and T.M. Weiger).

2012. X, 204 p. 33 illus., 10 in color. Hard cover. ISBN: 978-3-642-30337-1

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