



Purinergic Signalling in Neuron-Glia Interactions (Novartis Foundation Symposia)

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ATP, the intracellular energy source, is also an extremely important cell–cell signalling molecule for a wide variety of cells across evolutionarily diverse organisms. The extracellular biochemistry of ATP and its derivatives is complex, and the multiple membrane receptors that it activates are linked to many intracellular signalling systems.

Purinergic signalling affects a diverse range of cellular phenomena, including ion channel function, cytoskeletal dynamics, gene expression, secretion, cell proliferation, differentiation and cell death. Recently, this class of signalling molecules and receptors has been found to mediate communication between neurons and non-neuronal cells (glia) in the central and peripheral nervous systems. Glia are critical for normal brain function, development and response to injury. Neural impulse activity is detected by glia and purinergic signalling is emerging as a major means of integrating functional activity between neurons, glia and vascular cells in the nervous system. These interactions mediate effects of neural activity on the development of the nervous system and in association with injury, neurodegeneration, myelination and cancer.

Bringing together contributions from experts in diverse fields, including glial biologists, neurobiologists and specialists in purinergic receptor structure and pharmacology, this book considers how extracellular ATP acts to integrate communication between different types of glia, and between neurons and glia. Beginning with an overview of glia and purinergic signalling, it contains detailed coverage of purine release, receptors and reagents, purinergic signalling in the neural control of glial development, glial involvement in information processing, and discussion of the interactions between neurons and microglia.

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