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| Altri autori (Persone) | ChadwickDerek GoodeJamie |
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| Nota di contenuto | Cover; Contents; Chair's introduction; A brief look at glial cells; The acquisition of myelin: a success story; DISCUSSION; Purinergic signalling-an overview; DISCUSSION; General discussion I; Agonists and antagonists for P2 receptors; DISCUSSION; Regulated release of nucleotides and UDP sugars from astrocytoma cells; DISCUSSION; Pathophysiological roles of P2 receptors in glial cells; DISCUSSION; General discussion II; Ectonucleotidases in the nervous system; DISCUSSION; P2 receptor signalling, proliferation of astrocytes, and expression of molecules involved in cell-cell interactions DISCUSSIONNerve impulses regulate myelination through purinergic signalling; DISCUSSION; Cross-talk between growth factor and purinergic signalling regulates Schwann cell proliferation; DISCUSSION; Promoting neurotrophic effects by GPCR ligands; DISCUSSION; A |

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| | roles of glutamate and ATP; DISCUSSION; Neuron-glia interactions at the neuromuscular synapse; DISCUSSION; General discussion III; Functional neuronal-glial anatomical remodelling in the hypothalamus; DISCUSSION Purinergic signalling between axons and microgliaDISCUSSION; ATP receptors of microglia involved in pain; DISCUSSION; Final discussion; Contributor index; Subject index |
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| Sommario/riassunto | 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 |