1. Record Nr. UNINA9910143734503321

Titolo	Purinergic signalling in neuron-glia interactions [[electronic resource] /] / [editors, Derek J. Chadwick and Jamie Goode.]
Pubbl/distr/stampa	Chichester, : John Wiley, 2006
ISBN	1-280-44892-X 9786610448920 0-470-03224-3 0-470-03223-5
Descrizione fisica	1 online resource (303 p.)
Collana	Novartis Foundation symposium ; ; 276
Altri autori (Persone)	ChadwickDerek GoodeJamie
Disciplina	573.85 612.8043
Soggetti	Neurology Neuroglia Purines - Receptors Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Symposium on Purinergic signalling in neuron-glia interactions held at the Novartis Foundation, London 7-9 June 2003."--Contents p.
Nota di bibliografia	Includes bibliographical references and indexes.
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 purinergic dialogue between glia and neurons in the retina;

	DISCUSSION; Bidirectional astrocyte-neuron communication: the many 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
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

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Record Nr.	UNINA9910409695703321
Titolo	Antarctic Seaweeds : Diversity, Adaptation and Ecosystem Services / / edited by Iván Gómez, Pirjo Huovinen
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-39448-4
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (394 pages)
Disciplina	333.9538
Soggetti	Aquatic ecology Plant physiology Biotic communities Plant ecology Freshwater & Marine Ecology Plant Physiology Community & Population Ecology Plant Ecology Algues marines Ecologia marina Llibres electrònics Antàrtic (Oceà)

Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Antarctic Seaweeds: Biogeography, Adaptation and Ecosystem Services -- Diversity of Antarctic Seaweeds -- Biogeographic Processes Influencing Antarctic and Sub-Antarctic Seaweeds -- Detached Seaweeds as Important Dispersal Agents Across the Southern Ocean.- Biogeography of Antarctic Seaweeds Facing Climate Changes -- Comparative Phylogeography of Antarctic Seaweeds: Genetic Consequences of Historical Climatic Variations -- Underwater Light Environment of Antarctic Seaweeds -- Production and Biomass of Seaweeds in Newly Ice-Free Areas: Implications for Coastal Processes in a Changing Antarctic Environment -- Carbon Balance Under a Changing Light Environment -- Life History Strategies, Photosynthesis and Stress Tolerance in Propagules of Antarctic Seaweeds -- Form and Function in Antarctic Seaweeds: Photobiological Adaptations, Zonation Patterns and Ecosystem Feedbacks -- Successional Processes in Antarctic Benthic Algae -- Seaweed-Herbivore Interactions: Grazing as Biotic Filtering in Intertidal Antarctic Ecosystems -- Diversity and Functioning of Antarctic Seaweed Microbiomes -- Seaweeds in the Antarctic Marine Coastal Food Web -- Trophic Networks and Ecosystem Functioning -- Chemical Mediation of Antarctic Macroalgal-Grazer Interactions -- Brown Algal Phlorotannins: An Overview of their Functional Roles.
Sommario/riassunto	Seaweeds (macroalgae) represent the most striking living components in the Antarctic’s near-shore ecosystems, especially across the West Antarctic Peninsula and adjacent islands. Due to their abundance, their central roles as primary producers and foundation organisms, and as sources of diverse metabolically active products, seaweed assemblages are fundamental to biogeochemical cycles in Antarctic coastal systems. In recent years, the imminence of climate change and the direct impacts of human beings, which are affecting vast regions of the Antarctic, have highlighted the importance of seaweed processes in connection with biodiversity, adaptation and interactions in the benthic network. Various research groups have been actively involved in the investigation of these topics. Many of these research efforts have a long tradition, while some “newcomers” have also recently contributed important new approaches to the study of these organisms, benefiting polar science as a whole. This book provides an overview of recent advances and insights gleaned over the past several years. Focusing on a timely topic and extremely valuable resource, it assesses the challenges and outlines future directions in the study of Antarctic seaweeds.