
Contents

Introduction to the Special Issue on Purinergic Receptors	1
Geoffrey Burnstock	
ATP-Gated P2X3 Receptors Are Specialised Sensors of the Extracellular Environment	7
Elsa Fabbretti	
The P2X7 Receptor	17
Ronald Sluyter	
P2X Receptor Activation	55
Toshimitsu Kawate	
P2Y₁ Receptors – Properties and Functional Activities	71
Jolanta Barańska, Rafał Czajkowski, and Paweł Pomorski	
P2Y₂ Receptor Functions in Cancer: A Perspective in the Context of Colorectal Cancer	91
Fernand-Pierre Gendron, Morgane Placet, and Guillaume Arguin	
P2Y₁₁ Receptors: Properties, Distribution and Functions	107
Charles Kennedy	
Structure, Pharmacology and Roles in Physiology of the P2Y₁₂ Receptor	123
Ivar von Kügelgen	
An Update on P2Y₁₃ Receptor Signalling and Function	139
Raquel Pérez-Sen, Rosa Gómez-Villafuertes, Felipe Ortega, Javier Gualix, Esmerilda G. Delicado, and María Teresa Miras-Portugal	
Pharmacological Properties and Biological Functions of the GPR17 Receptor, a Potential Target for Neuro-Regenerative Medicine	169
Marta Fumagalli, Davide Lecca, Giusy T. Coppolino, Chiara Parravicini, and Maria P. Abbracchio	

Biochemical and Pharmacological Role of A₁ Adenosine Receptors and Their Modulation as Novel Therapeutic Strategy	193
Katia Varani, Fabrizio Vincenzi, Stefania Merighi, Stefania Gessi, and Pier Andrea Borea	
Molecular Mechanism of Plant Recognition of Extracellular ATP	233
Sung-Hwan Cho, Cuong The Nguyen, Jeongmin Choi, and Gary Stacey	
Index	255