A3 Adenosine Receptors from Cell Biology to Pharmacology and Therapeutics [

Borea, Pier Andrea

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Medicine | Pharmacology | Medicinal chemistry | Cardiology | Respiratory organs- | Biomedicine | Pharmacology/Toxicology | Pneumology /Respiratory System | Medicinal Chemistry | Cardiology

Monografía

This Book "A3 Adenosine Receptors from Cell Biology to Pharmacology and Therapeutics " documents the present state of knowledge of the adenosine A3 receptor. Adenosine A3 receptors are G protein-linked receptors that function in physiology and intracellular signaling and are involved in inflammatory responses and mediating cell proliferation and cell death. The A3 receptor is increasingly being recognized for its biological roles throughout the body, and many A3 receptor ligands have proven useful in elucidating peripheral and central pathologies. This book covers a wide range of information including data from studies of theoretical, molecular and cellular pharmacology, signal transduction, integrative physiology, new drug discoveries and clinical applications. The book includes sections on: A3 Adenosine Receptor signal transduction Adenosine Receptor medicinal chemistry Effects and therapeutic applications of Adenosine Receptors on tissues and organs Adenosine Receptors and inflammatory and auto-immune diseases Adenosine Receptors and cancer The chapters in this book cover both fundamental science and relevant applications and provide an authoritative account of the current status of the field. "A3 Adenosine Receptors from Cell Biology to Pharmacology and Therapeutics" is an up to date and scientifically excellent source of information, attractive to basic and clinical scientists alike

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Contenido: From Hypertension (+) to Asthma: Interactions with the Adenosine A3 Receptor from a Personal Perspective -- Physico-chemical Properties and Molecular Biology -- Thermodynamic Analysis in Drug{u2013} Receptor Binding: The A3 Adenosine Receptor -- Pharmacology and Molecular Biology of A3 Adenosine Receptors -- Signal Transduction -- Regulation of Second Messenger Systems and Intracellular Pathways -- The Desensitisation as A3 Adenosine Receptor Regulation: Physiopathological Implications -- Medicinal Chemistry --

A3 Adenosine Receptor Agonists: History and Future Perspectives -- A3 Adenosine Receptor Antagonists: History and Future Perspectives -- Molecular Modeling and Reengineering of A3 Adenosine Receptors -- Effects on Tissues and Organs and Therapeutic Applications -- Adenosine A3 Receptor Signaling in the Central Nervous System -- Cardiovascular Biology of the A3 Adenosine Receptor -- A3 Adenosine Receptor in the Pulmonary System -- A3 Adenosine Receptor Regulation of Cells of the Immune System and Modulation of Inflammation -- Adenosine A3 Receptors in Muscle Protection -- A3 Adenosine Receptors, HIF-1 Modulation and Atherosclerosis -- Inflammatory and Auto-Immune Diseases -- Rheumatoid Arthritis: History, Molecular Mechanisms and Therapeutic Applications -- Cancer -- Agonists and Antagonists: Molecular Mechanisms and Therapeutic Applications

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