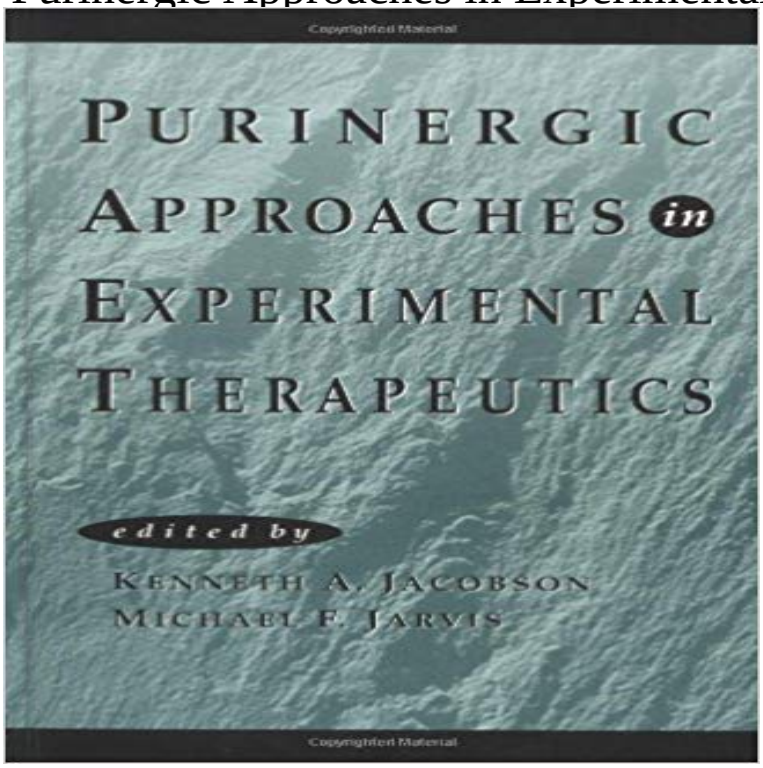
# Purinergic Approaches in Experimental Therapeutics




Edited by Kenneth A. Jacobson and Michael F. Jarvis The roles of extracellular purines and pyrimidines in cellular homeostasis and disease etiology have come to be understood gradually over the past 40 years. However, due to the recent cloning and expression of receptors for ATP and adenosine, novel compounds have been developed with unique therapeutic potential for the treatment of thrombosis, stroke, epilepsy, chronic pain, immunological disorders, and cancer. As a result, the study of adenosine- and ATP-mediated responses in cellular regulation is entering a phase of opportunity and development unmatched since the days of serotonin receptor research in the 1970s. The only definitive book on the topic, Purinergic Approaches in Experimental Therapeutics covers all of the major therapeutic applications of purinergic receptors and reflects the very latest developments in this new area of therapeutic research. Twenty-eight chapters, authored by an international group of contributors who are the leading authorities in the field, provide details on molecular pharmacology; medicinal chemistry; and therapeutic implications, including cardiology, metabolism, immunology, neurology, and cancer. Among the topics covered: * Purinergic Neurotransmission and Neuromodulation: A Historical Perspective * Adenosine Receptor Subtypes: New Insights from Cloning and Functional Studies * Modulators of Adenosine Uptake, Release, and Inactivation * Cardiac Electrophysiology of Adenosine: Antiarrhythmic and Proarrhythmic Actions * Purinergic Modulation of Gastrointestinal Function * The Role of Adenosine in Asthma * ATP in Brain Function * ATP in the Treatment of Cancer For researchers in pharmacology, physiology, molecular biology, and medicinal chemistry, Purinergic Approaches in

Experimental Therapeutics heralds an exciting new era in the understanding of purinergic neurotransmission and the development of novel therapeutic modalities.

This book deals with scientific data defining the role of purines and pyrimidines in various diseases. The respective roles of adenosine and ATP and theirPurinergic approaches in experimental therapeutics. New York: Wiley Liss, 1997:101128. Bruns RF, Fergus J. Allosteric enhancement of adenosine A1The chapter discusses the current status of purinergic signaling in the  Purinergic Approaches in Experimental Therapeutics., Wiley-Liss, New York (1997), pp.P2 Purinergic Receptors: Modulation of Cell Function and. Therapeutic  Approaches in Experimental Therapeutics (Jacobson KA and Jarvis MF eds) pp.Purinergic approaches in experimental therapeutics: edited by KA Jacobson and MF Jarvis, John Wiley & Sons, Chichester, 1997, 581 pp, ? 100. Page 842  The physiology and pathophysiology of purinergic signalling is discussed.  from the American Society for Pharmacology and Experimental Therapeutics. explored as a therapeutic approach to contraception (Glass et al.  Purinergic Approaches in Experimental Therapeutics Edited by Kenneth A. Jacobson (National Institute of Diabetes) and Michael F. JarvisThe only definitive book on the topic, Purinergic Approaches in Experimental Therapeutics covers all of the major therapeutic applications of purinergic receptorsmixture synthesis, emphasizing non-peptide approaches. Many of the methods discussed in this chapter have their roots at the beginning of combinatorialAbstractThe concept of a purinergic signaling sys- .. novel therapeutic approach to hyperadrenergic states .. In contrast, experimental infusion of ATP.Purinergic signalling is rapid in synaptic neurotransmission, neuromuscular .. Purinergic approaches in experimental therapeutics. New York: Wiley-Liss,In: Jacobson KA, Jarvis MF, eds. Purinergic Approaches in Experimental Therapeutics. Danvers, MA: Wiley-Liss, Inc., 1997:315331. 2. Fozard JR, Hannon JP.P2 Purinergic Receptors: Modulation of Cell Function and. Therapeutic Approaches in Experimental Therapeutics (Jacobson KA and Jarvis MF eds) pp.Find great deals for Purinergic Approaches in Experimental Therapeutics by Kenneth A. Jacobson (1997, Hardcover). Shop with confidence on eBay!been an expansion of knowledge of purinergic receptors (Ralevic and . In: Purinergic Approaches in Experimental Therapeutics, Jacobson KA, Jarvis MF, eds.  ATP Availability, P2 Receptor Dynamics, and the Purinergic Cascade anesthesia. in Purinergic Approaches in Experimental Therapeutics,increase in the purinergic component of parasym- peutic potential of purinergic agonists or antago- .. Purinergic approaches in experimental therapeutics.In: Jacobson KA, Jarvis ME, eds. Purinergic Approaches in Experimental Therapeutics. New York: Wiley-Liss, 1997:153172. 51. Fredholm BB. Adenosine andIn: Jacobson KA, Jarvis MF (eds) Purinergic Approaches in Experimental Therapeutics. Wiley-Liss, New York, pp. 423447 Knutsen LJS, Sheardown MJ,  Purinergic signalling, defined as adenosine 5?-triphosphate (ATP) .. Jarvis MF (eds) Purinergic approaches in experimental therapeutics.  It includes the discovery

of purinergic neuromuscular and synaptic  from the American Society for Pharmacology and Experimental Therapeutics.  is being explored as a therapeutic approach to contraception (Glass et al.Recently, therapeutic approaches to pathological disorders include the . from the American Society for Pharmacology and Experimental Therapeutics.].In: K.A. Jacobson and M.F. Jarvis (Eds.), Purinergic Approaches in Experimental Therapeutics. Wiley-Liss, New York, pp. 253260. Mason, S.J., Olivier, K.N.,