Biological Actions Of Extracellular Atp

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xi, 542 p. : 24 cm "Result of a conference entitled Biological actions of Extracellular ATP, which was held in Philadelphia ... on November 27-29, 1990 by the New York Academy of Sciences"--P. v

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Biological actions of extracellular ATP (Book, 1990 ...

The trophic actions of extracellular ATP, alone or in combination with polypeptide growth factors, may play an important role in brain development and may contribute to the reactive gliosis that accompanies brain injury and neurodegeneration.

Trophic actions of extracellular ATP: gene expression ...

Action of extracellular ATP and NAD and their metabolites on different cell surface receptors. Extracellular ATP present in high, intermediate, or low concentrations can activate P2X7, other P2X, or P2Y receptors, respectively, or is hydrolysed by the ...

Extracellular NAD and ATP: Partners in immune cell modulation

While there were early papers about the extracellular actions of purines, the role of ATP as a purinergic neurotransmitter in nonadrenergic, noncholinergic nerves in the gut and bladder in 1972 was a landmark discovery, although it met considerable resistance for the next 20 years.

Purinergic signalling - PubMed Central (PMC)

Mechanism of extracellular ATP-induced increase of cytosolic Ca2+ concentration in isolated rat ventricular myocytes. A Christie , V K Sharma , and S S Sheu Department of Pharmacology, University of Rochester, School of Medicine and Dentistry, NY 14642.

Mechanism of extracellular ATP-induced increase of ...
supplementing with ATP counteracted the effect of hemichannel blockers on AMPK activation (Fig. 3E,F). These results indicate that hemichannel-derived ATP suppresses AMPK activation. Most of the cellular actions of extracellular ATP are mediated through its binding to P2 purinoceptors (Baroja-Mazo et al., 2013; Wang et al., 2013).

Purinergic control of AMPK activation by ATP released ...
sides also exert significant biological actions on many tissues and cells. In 1929, Drury and Szent-Gyorgyi (98) observed that extracellular ATP, then a newly identified and purified biomolecule, exerted profound effects on cardiovascular performance and other physiological functions.

Signal transduction via P2-purinergic receptors for ...
The peak extracellular ATP levels in mutants lacking one of the subunits of cytochrome bo oxidase (Δ cyoA, Δ cyoC and Δ cyoD mutants) ranged from 26.1% to 36.6% of that of the wild type level ($p < 0.05$, Student’s t -test). The peak ATP level from the mutant lacking cytochrome bd II...

Release of extracellular ATP by bacteria during growth
In normal conditions, extracellular ATP concentration can be estimated to be between 2 and 100 µM. However, since ATP is stored inside synaptic vesicles in high millimolar range, it might well reach transient a synaptic concentration of 1 mM or higher. ATP breakdown, as catalysed by our membrane preparations, follows a unique pathway.

Metabolic regulation of ATP breakdown and of adenosine ...
THE JOURNAL OF BIOLOGICAL CHEMISTRY 0 1987 by The American Society for Biochemistry and Molecular Biology, Inc. Vol. 262, No. 31, Issue of November 5, pp. 15026-15032,1967 Printed in U. S. A. Diversity in the Effects of Extracellular ATP and Adenosine on the Cellular Processing and Physiologic Actions of Insulin in Rat

THE JOURNAL OF BIOLOGICAL CHEMISTRY Vol. 262, of 5, pp ...
Ultimately, direct measurement of extracellular ATP in solution is the preferred course of action to study whether a cell or tissue is releasing ATP in a physiological or biological manner. There has been a recent revolution in the establishment of assays that can detect extracellular ATP signaling in cells and tissues.

Extracellular ATP as a signaling molecule for epithelial cells
Biological actions of CD73 (ecto-5′-NT) are mainly a consequence of the regulated enzymatic phosphohydrolytic activity on extracellular nucleotides. This ecto-enzymatic cascade in tandem with CD39 (ecto-ATPase) generates adenosine from ATP that in turn activates adenosine receptors.

CD73: A novel target for cancer immunotherapy
ATP is a molecule found only in and around living cells, and as such it gives a direct measure of biological concentration and health. ATP is quantified by measuring the light produced through its reaction with the naturally-occurring firefly enzyme Luciferase using a Luminometer.

ATP test - Wikipedia
ATPases are a class of enzymes that catalyze the decomposition of ATP into ADP and a free phosphate ion or the inverse reaction. This dephosphorylation reaction releases energy, which the enzyme harnesses to drive other chemical reactions that would not otherwise occur. This process is widely used in all known forms of life. Some such enzymes are integral membrane proteins, and move solutes across the membrane,

typically against their concentration gradient. These are called transmembrane ATPase

ATPase - Wikipedia
Cyclic adenosine monophosphate (cAMP, cyclic AMP, or 3',5'-cyclic adenosine monophosphate) is a second messenger important in many biological processes. cAMP is a derivative of adenosine triphosphate (ATP) and used for intracellular signal transduction in many different organisms, conveying the cAMP-dependent pathway.

Cyclic adenosine monophosphate - Wikipedia
Essential role in the biological activity of ATP ATP (adenosine triphosphate), the main source of energy in cells, must be bound to a magnesium ion in order to be biologically active. What is called ATP is often actually Mg-ATP.

Magnesium in biology - Wikipedia
Dubyak GR, Fedan JS, eds. (1990): The biological actions of extracellular ATP. Proceedings of a New York Academy of Sciences Conference, November 27–29, 1989 Google Scholar Filippini A, Taffs RE, Agui T, Sitkovsky M (1990): EctoATPase activity in cytolytic T-lymphocytes protection from the cytolytic effects of extracellular ATP.

Possible Role of Extracellular ATP in Cell ... - SpringerLink
Connexin hemichannels regulate many cell functions. However, the molecular mechanisms involved remain elusive. Hemichannel opening causes loss of ATP, we therefore speculated a potential role for AMPK in the biological actions of hemichannels. Activation of hemichannels by removal of extracellular Ca2+ led to an efflux of ATP and a weak activation of AMPK. Unexpectedly, dysfunction of ...

Purinergic control of AMPK activation by ATP released ...
The intracellular calcium level is kept relatively low with respect to the extracellular fluid, by an approximate magnitude of 12,000-fold. This gradient is maintained through various plasma membrane calcium pumps that utilize ATP for energy, as well as a sizable storage within intracellular compartments.