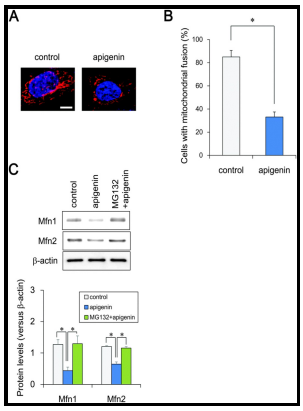
Investigation of the chemistry of the action of triorganotin compounds on mitochondria.

University of East Anglia - The action of 5



Description: -
-Investigation of the chemistry of the action of triorganotin compounds on mitochondria.
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Notes: Thesis (Ph.D.) - University of East Anglia, School of Chemical Sciences, 1978.
This edition was published in 1978

Tags: #Toxic #effects #of #tin #compounds #on #microorganisms

mitochondrion

Similar to Das et al. Triorganotins also inhibit the Na +-K + ATPase of cell membranes and the Ca 2+-translocating ATPase of sarcoplasmic reticulum.

Toxic effects of tin compounds on microorganisms

Cells were treated as shown in. Nonetheless, we saw a decrease in respiration in Wistar cells exposed to moderate chemical hypoxia and an increase in the O 2 consumption in the astrocytes from both groups exposed to intense chemical hypoxia.

Mitochondria

His first full-time teaching position was at the Dissenting Academy in Warrington. Thus, the reduction of ATP and the increase in ADP can be related to the increase of Pyruvate induced by hypoxia ,,. Zhang J, Zuo Z, He C, Cai J, Wang Y, Chen Y, et al.

Design, Synthesis, and Biological Characterization of Novel Mitochondria Targeted Dichloroacetate

Since nicotine can bind and inhibit respiratory chain complex I, it can potentially affect respiratory chain-mediated ROS production.

Mitochondria as a possible target for nicotine action

By preventing the inactivation of the PDHC, DCA ensures pyruvate is imported into the organelle, increasing its availability for catabolism and thus increasing the level of reduced cofactors NADH, FADH 2 available for OXPHOS. Toxicol Sci 2003; 74: 407-415. Together, these data indicate that nicotine causes oxidative stress and thereby mediates oxidative damage of cellular macromolecules.

Mitochondria

The compound is currently being trialled in the MOTOR study to treat mitochondrial myopathy. Mitochondria-targeted molecules include drug candidates, intracellular probes and sensors. Research has shown that fragments of the mitochondrial genome carried by all humans alive today can be traced to a single woman ancestor living an estimated 150,000 to 200,000 years ago.

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