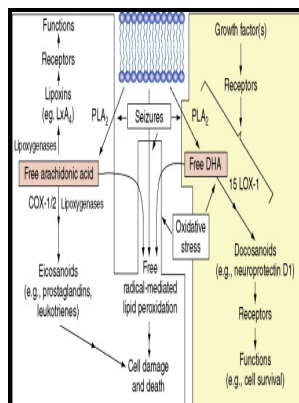


Prostaglandin system - endoperoxides, prostacyclin, and thromboxanes

Plenum published in cooperation with NATO Scientific Affairs Division - Prostaglandins



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- NATO Advanced Study Institutes series. Series A. Life sciences -- 36 Prostaglandin system - endoperoxides, prostacyclin, and thromboxanes

Notes: Includes index.

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Tags: #The #Prostaglandin #System

Discovery of Prostaglandins

During those decades, scientists were unaware of how these substances were produced and how they functioned.

Prostaglandins and the lung — Johns Hopkins University

Mast cells contain PGD synthase that results in the production of PGD₂, an important mediator of Th2 responses. An important source is leukocytes, which are known to infiltrate the preovulatory follicle after LH exposure and the corpus luteum during regression. Prostaglandins appear to be autocrine or paracrine regulators rather than true hormones because they are both produced and act locally.

Prostaglandins

Administration of PGE₂ and PGE₁ induces relaxation loss of patency of isolated fetal lamb ductus arteriosus preparations circular strips in a low oxygen environment PO₂ less than 14 mmHg. Prostaglandins and the Ductus Arteriosus The maintenance of patency relaxation of vasodilation of the ductus arteriosus is pivotal in controlling the oxygenation of tissues in the fetus. Isoprostanes are present in relatively large amounts tenfold greater in blood and urine than the COX-derived prostaglandins.

Prostaglandins; their biological and pharmacological role

With this in mind, we made an effort in collecting a number of experts in both experimental and clinical use of these important arachidonate metabolites.

Prostaglandins

PGI₂ is similar to PGE₂ and relaxes the fallopian tube, whereas 6-keto-PGF_{1α} causes contractions similar to those seen with PGF_{2α}. This product is PGH₂. Synthetic PGI₂ epoprostenol and PGI₂ analogs iloprost, treprostinil are used to treat pulmonary hypertension and portopulmonary hypertension.

Triene Prostaglandins: Prostacyclin and Thromboxane Biosynthesis and Unique Biological Properties on JSTOR

Prostaglandins 6: 271, 1974 Naden RP, Rosenfeld CR: Effect of angiotension II on uterine and systemic vasculature in pregnant sheep. The resistance in the uteroplacental vasculature is very low.

Prostaglandins and the Reproductive Cycle

Adv Pharmacol 33: 179, 1995 Smith WL: Prostanoid biosynthesis and mechanism of action. Carsia, in , 2015 26. Prostaglandins 37: 13, 1989 Casey ML, Korte K, MacDonald PC: Epidermal growth factor stimulation of prostaglandin E₂ biosynthesis in amnion cells.

Prostaglandins; their biological and pharmacological role

The enzymes that catalyze the formation of eicosanoids exist in a substrate-limiting environment. Subsequent studies showed that semen contained a mixture of more than 14 polyunsaturated fatty acids, each composed of 20 carbons. Prostaglandins 1: 269, 1972 Powell WS, Hammarstrom S, Samuelsson B et al: Prostaglandin F₂ α receptor in human corpus luteum.

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