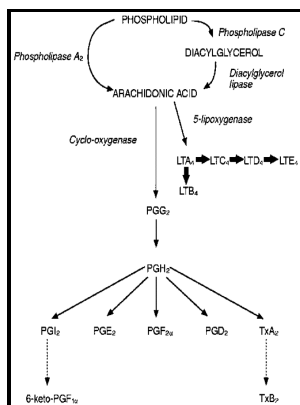


# Prostaglandin system - endoperoxides, prostacyclin, and thromboxanes

Plenum published in cooperation with NATO Scientific Affairs Division -  
Prostaglandins, thromboxanes and Leukotrienes



Description: -

- Peace of Westphalia -- (1648) -- History -- Sources

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Prostaglandins -- Congresses. Prostaglandin system - endoperoxides, prostacyclin, and thromboxanes

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

Notes: Includes index.

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Tags: #Prostaglandins; #their #biological #and #pharmacological #role

## Prostaglandins, thromboxanes and Leukotrienes

Biol Reprod 16: 286, 1977 Evans CA, Kennedy TG: The importance of prostaglandin synthesis for the initiation of blastocyst implantation in the hamster.

## Prostaglandins and the lung — Johns Hopkins University

Meeting abstract Society Gynecologic Investigation, p 37, 1980 McLaughlin MK, Brennan SC, Chez RA: Effects of indomethacin on sheep uteroplacental circulations and sensitivity to angiotension II. Prostacyclin synthase converts PGH 2 to PGI 2.

## Prostaglandins; their biological and pharmacological role

AA must first be released or mobilized from the sn-2 position of membrane phospholipids by one or more lipases of the phospholipase A 2 PLA 2 type for eicosanoid synthesis to occur.

## Biochemical Aspects of Prostaglandins and Thromboxanes

Data obtained from in vitro incubations of median eminence fragments obtained from male rats have shown that norepinephrine and dopamine stimulate the simultaneous release of LHRH and PGF 2α. In the 1960's, following his successful researches, he teamed-up with Samuelsson in conducting further researches on prostaglandins. .

## Prostaglandins; their biological and pharmacological role

The second step is reduction of the double bond between C 13 and C 14 by the enzyme prostaglandin-13-reductase.

## **The Prostaglandins: Basic Chemistry and Action**

Distinct but related products can be formed from precursors other than AA. New York, Raven Press, 1974 Labrie F, Pelletier G, Borgeat P et al: Mode of action of hypothalamic regulatory hormones in the adenohypophysis.

## **The Prostaglandin System**

Riley and Carlson demonstrated that one of the early events in PGF  $2\alpha$ -induced luteolysis is membrane breakdown or decrease in fluidity. The DP<sub>2</sub> receptor also known as the chemoattractant receptor-homologous molecule expressed on T H<sub>2</sub> cells, or CRT H<sub>2</sub>, which is unrelated to the other prostanoid receptors, is a member of the fMLP receptor superfamily. Bergström, Samuelsson and Vane were able to show that prostaglandins are involved in a diverse range of biochemical functions and processes; for this reason their research opened up a new arena of medical research and pharmaceutical applications.

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