

Arachidonic Acid Metabolism And Tumor Initiation Prostaglandins Leukotrienes And Cancer

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Arachidonic acid (AA) and its metabolites have recently generated a heightened interest due to growing evidence of their significant role in cancer biology. Thus, inhibitors of the AA cascade, first and foremost COX inhibitors, which have originally been of interest in the treatment of inflammatory conditions and certain types of cardiovascular disease, are now attracting attention as an arsenal against cancer.

Inhibition of arachidonic acid metabolism and its...

Arachidonic Acid Metabolism in the Skin. Vincent A. Ziboh. Pages 5-20. Arachidonic Acid Metabolism and Tumor Promotion. Susan M. Fischer. Pages 21-47. Prostaglandins, Epidermal Hyperplasia and Skin Tumor Promotion. Gerhard Furstenberger, Friedrich Marks. Pages 49-72.

Arachidonic Acid Metabolism and Tumor Promotion | SpringerLink

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Arachidonic Acid Metabolism and Tumor Initiation...

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Arachidonic Acid Metabolism and Tumor Initiation...

tumorigenesis (Shureiqi & Lippman, 2001). Aberrant arachidonic acid (AA) metabolism, especially COX-2 and 5-lipoxygenase (5-LOX) pathways, are activated during oral carcinogenesis, and can be targeted for cancer prevention (el-Hakim & Langdon, 1991). Recently, we found that inhibition of AA metabolism caused a decrease in HNSCC cell

Arachidonic Acid Metabolism and Its Implication on Head...

In: Fischer SM, Slaga TJ (eds) Arachidonic acid metabolism and tumor promotion. Martinus Nijhoff Publishing, Boston, pp 132–168 Google Scholar Chadwick VS, Gaginella TS, Carlson GL, DeBongnie JC, Phillips SF, Hofmann AF (1979) Effects of molecular structure on bile acid-induced alterations in absorptive function, permeability and morphology in the perfused rabbit colon.

Arachidonic Acid Metabolism and Colorectal Cancer...

Arachidonic acid is not carcinogenic, and studies show dietary level is not associated (positively or negatively) with risk of cancers. ARA remains integral to the inflammatory and cell growth process, however, which is disturbed in many types of disease including cancer.

Arachidonic acid — Wikipedia

Arachidonic acid pathway. The metabolism of arachidonic acid by either COX pathway or lipoxygenase (LOX) pathway generates eicosanoids, which have been implicated in the pathogenesis of a variety of human diseases, including cancer, and are considered important in tumor promotion, progression, and metastasis (Yoshimura et al 2003a).

Relationship between arachidonic acid pathway and human...

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Arachidonic Acid Metabolism And Tumor Initiation...

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Arachidonic Acid Metabolism And Tumor Initiation...

Cyclooxygenase-2 (COX-2), 5-lipoxygenase (5-LOX), and cytochrome P450 (CYP) 4A-mediated arachidonic acid (AA) metabolism play an essential role in human inflammatory disorders. Blocking COX-2 pathway would shunt AA metabolism to the other pathway, thereby decreasing the efficacy and exacerbating adverse effects.

Frontline Science: Reprogramming COX-2, 5-LOX, and CYP4A...

Pieces of the puzzle One of the fats found at particularly high levels in the samples was arachidonic acid. It ' s a fatty acid predominantly found in animal fats in our diet but can also be produced by cancer cells. Significantly, this same fat plays a major role in the inflammatory response in cancer.

Searching for novel connections in cancer metabolism...

Arachidonic acid and its metabolites (prostaglandins and leukotrienes) are now considered intracellular messengers. 31 Arachidonic acid is a component of membrane phospholipids released either in a one-step process, after phospholipase A 2 (PLA 2) action, or a two-step process, after phospholipase C and DAG lipase actions. Arachidonic acid is then metabolized by cyclooxygenase (COX) and 5 ...

Arachidonic Acid — an overview | ScienceDirect Topics

Here we report that the tumor suppressor phosphatase and tensin homolog (PTEN) is oxidized and inactivated during arachidonic acid (AA) metabolism in pancreatic cancer cell lines expressing COX-2 or 5-LOX. Oxidation of PTEN decreases its phosphatase activity, favoring increased phosphatidylinositol 3,4,5-triphosphate production, activation of Akt and phosphorylation of downstream Akt targets including GSK-3beta and S6K.

Akt activation by arachidonic acid metabolism occurs via...

The metabolism of arachidonic acid by COX, LOX, and cytochrome P450 generates eicosanoids, including prostaglandins, leukotrienes, and HETEs . Although the functional role of many eicosanoids remains unknown, a number act as potent mediators of inflammation, and have recently been implicated in cancers through effecting cell proliferation, survival, angiogenesis, migration, and invasion (36–38).

Mye Expression Drives Aberrant Lipid Metabolism in Lung Cancer

Author information: (1)Laboratory for Cancer Research, College of Pharmacy, Rutgers, The State University of New Jersey, 164 Frelinghuysen Road, Piscataway, NJ 08854-8020, USA. The effects of green and black tea polyphenols on cyclooxygenase (COX)- and lipoxygenase (LOX)-dependent arachidonic acid metabolism in normal human colon mucosa and colon cancers were investigated.

Effects of purified green and black tea polyphenols on...

Here we report that the tumor suppressor phosphatase and tensin homolog (PTEN) is oxidized and inactivated during arachidonic acid (AA) metabolism in pancreatic cancer cell lines expressing COX-2...

Akt activation by arachidonic acid metabolism occurs via...

The phorbol ester tumor promoter (12-O-tetradecanoyl-phorbol-13-acetate (10⁻⁷-10⁻⁹ M) caused a rapid (1-3 hr after addition) release of arachidonic acid and prostaglandins E2 and F2 from chick embryo fibroblasts. This effect was inhibited by cycloheximide and puromycin. Prostaglandin release was more sensitive to inhibition than was arachidonic acid release.