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Arachidonic Acid Metabolism in the Skin.

Vincent A. Ziboh. Pages 5-20.

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Hyperplasia and Skin Tumor Promotion.
Gerhard Furstenberger, Friedrich Marks.
Pages 49-72.

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In 1968, R.H. Williams first reported that elevated prostaglandin levels are present in human medullary carcinoma.

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Since that time, the concept that arachidonic acid metabolites may be involved in cancer has expanded to include every aspect of the disease from cell transformation through metastasis.

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elevated prostaglandin levels are present in human medullary carcinoma. Since that time, the concept that arachidonic acid metabolites may be involved in cancer has expanded to include every aspect of the disease from cell transformation through metastasis.

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Tumor Initiation ...

Arachidonic acid metabolism and tumor promotion by Susan M. Fischer, Thomas J. Slaga, Apr 30, 1985, Springer My Copy
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We do know that dietary fat composition may greatly influence the risk of prostate cancer as it has been observed in prostate cancer cell lines that n-6 fatty acids, such as linoleic acid and arachidonic acid (AA), promote cell proliferation, whereas long-chain polyunsaturated n-3 fatty acids, which

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are abundant, for example, in fish oil,
inhibit cell proliferation (5-8).

Arachidonic acid metabolism in human prostate cancer

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Akt activation by arachidonic acid metabolism occurs via oxidation and inactivation of PTEN tumor suppressor.
Covey TM(1), Edes K, Fitzpatrick FA.

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Author information: (1)1Department of
Medicinal Chemistry, University of Utah,
Salt Lake City, UT, USA.

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**Akt activation by arachidonic acid
metabolism occurs via ...**

Purpose: Hyperhomocysteinemia (HHcy)
has been considered a risk factor for
different diseases including

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Inflammation, neurological diseases,
cancer and many other pathological
conditions. Likewise, arachidonic acid
(AA) metabolism is implicated in both
vascular homeostasis and inflammation
as shown by the development of CVD
following the imbalance of its
metabolites.

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The interaction Between Arachidonic Acid Metabolism and ...

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

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many types of disease including cancer.

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Arachidonic acid - Wikipedia

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In order to adapt to the reduced

availability of nutrients and oxygen in

the tumor microenvironment and the

increased requirements of energy and

building blocks necessary for

maintaining their high proliferation rate,

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malignant cells undergo metabolic changes that result in an increased production of lactate, nitric oxide, reactive oxygen species, prostaglandins and other byproducts of arachidonic acid metabolism that influence both the composition of the inflammatory microenvironment and ...

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Metabolic changes in tumor cells and tumor-associated ...

Chen, C. L. et al. NANOG metabolically reprograms tumor-initiating stem-like cells through tumorigenic changes in oxidative phosphorylation and fatty acid metabolism. Cell Metab. 23 , 206-219 ...

Upregulation of CPT1A is essential

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In tumors with high levels of MYC, we found an increase in cytosolic phospholipase A2 (cPLA2) activity with a preferential release of membrane-bound arachidonic acid, stimulating the lipoxygenase (LOX) and COX pathways also amplified by MYC at the level of gene expression.

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**Myc Expression Drives Aberrant
Lipid Metabolism in Lung Cancer**

Fischer, S.M. and Adams, L.A. Tumor promoter-induced chemiluminescence in mouse epidermal cells is inhibited by several inhibitors of arachidonic acid metabolism, (submitted) Google Scholar 53. Trush, M.A., Wilson, M.E., and Van

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Dyke, K.

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Metformin treatment also decreased
proinflammatory arachidonic acid
>1.5-fold in responsive tumors ($P =$
0.023). Collectively, these preclinical
data provide evidence for a direct effect

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of metformin in vivo and suggest that OCT2 expression may predict metformin uptake and tumor response. Cancer Prev Res; 10(3); 198-207. ©2017 AACR.

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Metformin Accumulation Correlates with Organic Cation ...

1 Signalling and Cancer Metabolism
Team, Division of Cancer Biology, The

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Institute of Cancer Research, 237

Fulham Road, London SW3 6JB, UK; ...

this study reveals an important role for
activated PI3K signaling in regulating
arachidonic acid metabolism, uncovering
a targetable metabolic vulnerability that
largely depends on dietary fat ...

Metabolic Fingerprinting Links

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Arachidonic acid is synthesized from α -linolenic acid derived from linoleic acid, an essential fatty acid, by the enzyme Δ 6-desaturase. Once formed, arachidonic acid can be converted to any of the eicosanoids (Figure 3-36).

Cyclooxygenase is an enzyme that transforms arachidonic acid into

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endoperoxides which are used to
synthesize...

Arachidonic Acid - an overview |
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Arachidonic acid is obtained from food
such as poultry, animal organs and
meat, fish, seafood, and eggs , , , , and
is incorporated in phospholipids in the

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cells' cytosol, adjacent to the endoplasmic reticulum membrane that is studded with the proteins necessary for phospholipid synthesis and their allocation to the diverse biological membranes. Of note, glycerophospholipids are composed of a

...

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Arachidonic acid: Physiological roles and potential health ...

Metabolic fingerprinting using the iKnife offers near real-time diagnosis of PIK3CA mutant breast cancers and connects oncogenic PIK3CA with enhanced arachidonic acid metabolism. cPLA2 inhibition shows remarkable synergy with dietary fat restriction to restore

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tumoral immune cell infiltration and
inhibit growth of mutant PIK3CA-bearing
breast tumors.

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Proceedings: AACR Annual Meeting
2020; April 27-28, 2020 and June 22-24,

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2020; Philadelphia, PA Background: Cancer stem cells (CSC) are rare group of neoplastic cells with features that include, self-renewal, pluripotency and tumorigenicity, and are thought to be responsible for tumor recurrence and metastasis. Thus, a lot of excitement surrounds the idea of going right to the root of the ...

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