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Roles of matrix metalloproteinases in cancer progression and their pharmacological targeting

Chrisostomi Gialeli, Achilleas D. Theocharis, Nikos K. Karamanos

First Published: 19 November 2010

DOI: 10.1111/j.1742-4658.2010.07919.x

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Energy metabolism in tumor cells

Rafael Moreno-Sánchez, Sara Rodríguez-Enríquez, Alvaro Marín-Hernández, Emma Saavedra

First Published: 14 February 2007

DOI: 10.1111/j.1742-4658.2007.05686.x

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ERK and cell death: Mechanisms of ERK-induced cell death – apoptosis, autophagy and senescence

Sebastien Cagnol, Jean-Claude Chambard

First Published: 16 October 2009

DOI: 10.1111/j.1742-4658.2009.07366.x

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Human telomeric G-quadruplex: The current status of telomeric G-quadruplexes as therapeutic targets in human cancer

Stephen Neidle

First Published: 27 November 2009

DOI: 10.1111/j.1742-4658.2009.07463.x

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Structure, regulation and evolution of Nox-family NADPH oxidases that produce reactive oxygen species

Hideki Sumimoto

First Published: 28 June 2008

DOI: 10.1111/j.1742-4658.2008.06488.x

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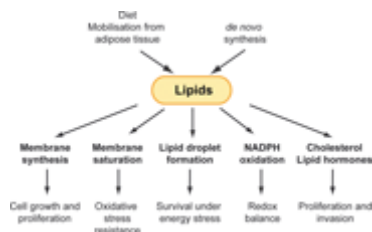
MINIREVIEW

Lipid metabolism in cancer

Claudio R. Santos, Almut Schulze

First Published: 3 July 2012

DOI: 10.1111/j.1742-4658.2012.08644.x



The availability of lipids in cancer cells is increased due to stimulation of *de novo* synthesis by oncogenic signalling and increased uptake from the blood stream. Lipids may contribute to several aspects of the tumour phenotype such as growth and proliferation or survival under oxidative and energy stress. Additionally, lipids also stimulate signalling pathways that lead to proliferation and invasion

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Typical 2-Cys peroxiredoxins – structures, mechanisms and functions

Andrea Hall, P. A. Karplus, Leslie B. Poole

First Published: 24 March 2009

DOI: 10.1111/j.1742-4658.2009.06985.x

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MicroRNAs and epigenetics

Fumiaki Sato, Soken Tsuchiya, Stephen J. Meltzer, Kazuharu Shimizu

First Published: 30 March 2011

DOI: 10.1111/j.1742-4658.2011.08089.x



This review draws up a list of epigenetically regulated miRNAs and miRNAs regulating epigenetics-related molecules. A complicated network of feedback between these microRNAs and epigenetic molecules appears to form an epigenetics-microRNA regulatory circuit, and to organize the whole gene expression profile. This review will provide biological insights into gene-regulatory mechanisms that may underlie a variety of diseases

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Cellulose crystallinity – a key predictor of the enzymatic hydrolysis rate

Mélanie Hall, Prabuddha Bansal, Jay H. Lee, Matthew J. Realff, Andreas S. Bommarius

First Published: 10 February 2010

DOI: 10.1111/j.1742-4658.2010.07585.x

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Human telomeric G-quadruplex: structures of DNA and RNA sequences

Anh Tuân Phan

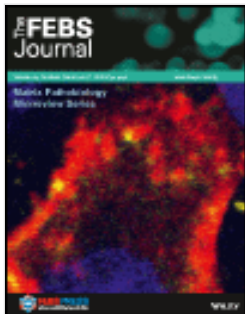
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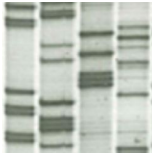
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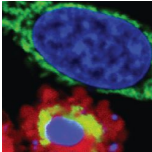
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- The thirteen specially commissioned reviews from experts in the field cover a broad spectrum of topics.
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