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Manuscript Type: SYSTEMATIC REVIEWS

**Expression of genes that control core fucosylation in hepatocellular carcinoma:
Systematic review**

Norton PA *et al.* Core fucosylation genes in HCC

Pamela A Norton, Anand S Mehta

Abstract

BACKGROUND

Changes in N-linked glycosylation have been observed in the circulation of individuals

Match Overview

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Fucosylation Is a Promising Target for Cancer Diagnosis ...

www.ncbi.nlm.nih.gov › ... › [Biomolecules](#) › v.2(1); 2012 Mar

Jan 30, 2012 · **Fucosylated** Haptoglobin. Haptoglobin is produced in the liver and exhibits a low level of **fucosylation**, since the **expression** of Fut8 and **GDP-fucose synthesis** enzymes such as FX and GMDS is quite low in the normal liver. The **ectopic expression** of haptoglobin is **observed** in special conditions such as infections, inflammation and **cancer**.

Cited by: 85

Author: Eiji Miyoshi, Kenta Moriwaki, Naoko Tera...

Publish Year: 2012

Significance of α 1-6 Fucosylation in Hepatocellular Carcinoma

https://www.researchgate.net/publication/302407331_Significance_of...

Recently, serum α 1-6 fucosylated α -fetoprotein (AFP) has been employed for a differential diagnosis of hepatocellular carcinoma (HCC) from liver cirrhosis.

Decreased Core-Fucosylation Contributes to Malignancy in ...

www.ncbi.nlm.nih.gov › [Journal List](#) › [PLoS One](#) › v.9(4); 2014

Decreased levels of total **core fucosylation** identified in both sera and tissues from **gastric cancer**. The relative abundance of Fut8 protein was illustrated using western **blot** (raw data was shown in Figure S1). The Fut8 in adjacent tissues was significantly higher than that in **tumor** tissues ($P < 0.05$) (Figure 3E).

Cited by: 57

Author: Yun-Peng Zhao, Xin-Yun Xu, Meng Fang, ...

Publish Year: 2014

Quantitative analysis of core fucosylation of serum ...

<https://www.sciencedirect.com/science/article/pii/S1874391918300526>

Several **studies report** increased **core fucosylation** in the context of **hepatocellular carcinoma** (HCC), an end-stage complication of the **fibrotic liver** damage [[13], [14], [15]]. It was, therefore, somewhat surprising that we find the changes in **core fucosylation** of some proteins already at the stage of **liver fibrosis**.



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Fucosylation Is a Promising Target for Cancer Diagnosis ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4030867>

Jan 30, 2012 · **Fucosylated** Haptoglobin. Haptoglobin is produced in the liver and exhibits a low level of **fucosylation**, since the **expression** of Fut8 and GDP-**fucose** synthesis enzymes such as FX and GMDS is quite low in the normal liver. The **ectopic expression** of haptoglobin is observed in special conditions such as infections, inflammation and **cancer**.

Cited by: 105

Author: Eiji Miyoshi, Kenta Moriwaki, Naoko Tera...

Publish Year: 2012

Hepatocellular carcinoma review: Current treatment, and ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3989948>

Apr 21, 2014 · INTRODUCTION. **Hepatocellular carcinoma** (HCC) is the fifth most common form of **cancer** worldwide and the third most common cause of **cancer-related** deaths. HCC often occurs in the background of a cirrhotic liver[1]. **Orthotopic** liver transplantation (OLT) is an effective treatment for both HCC and underlying **cirrhosis**,...

Cited by: 178

Author: Ali Raza, Gagan K Sood

Publish Year: 2014

Disturbance of circadian gene expression in hepatocellular ...

<https://onlinelibrary.wiley.com/doi/abs/10.1002/mc.20446>

S. Fonnes, A. M. Donatsky and I. Gögenur, Expression of core clock genes in colorectal tumour cells compared with normal mucosa: a systematic review of clinical ...

Cited by: 126

Author: Yueh-Min Lin, Julia H. Chang, Kun-Tu Ye...

Publish Year: 2008

Fucosylation and gastrointestinal cancer - wjgnet.com

<https://www.wjgnet.com/1948-5182/full/v2/i4/151.htm> ▾

Recent reports showed that a loss or decrease in **core-fucosylation** on N-glycans in integrins and E-cadherin resulted in defects in their functions[6,108]. Thus, **core-fucosylation** would be closely involved in the biological behavior of **cancer** cells through regulation of the functions of many membrane-associated proteins.

Cited by: 112

Author: Kenta Moriwaki, Eiji Miyoshi

Publish Year: 2010

Genetic Landscape and Biomarkers of Hepatocellular ...

<https://www.sciencedirect.com/science/article/pii/S0016508515008690>

Mendelian genetic predisposition to **hepatocellular carcinoma**. The liver is a very rare target of

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... 8 as a functional regulator of nonsmall cell lung cancer - Chen - 被引用次数: 109

... for fucosylation in human hepatocellular carcinoma ... - Noda - 被引用次数: 142

... in human metastatic hepatocellular carcinoma cells - Kang - 被引用次数: 24

Fucosylation Is a Promising Target for Cancer Diagnosis and Therapy

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4030867/> ▼ [翻译此页](#)

作者: E Miyoshi - 2012 - 被引用次数: 85 - [相关文章](#)

This review describes the role of fucosylated haptoglobin as a cancer biomarker, ... Glycomics, the systematic study of glycans and glycan-binding proteins in ... In contrast, AFP with core fucosylation is a very specific marker for HCC [6,7]. ... Lowe J.B. Conditional control of selectin ligand expression and global fucosylation ...

Glycan-related gene expression signatures in human metastatic ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3438600/> ▼ [翻译此页](#)

作者: X KANG - 2012 - 被引用次数: 24 - [相关文章](#)

Keywords: glycan gene, metastasis, hepatocellular carcinoma, lectin array ... A significant advantage of gene expression analysis is that it constitutes a simple and ... The core fucose structure, sialic acid structure (mainly in the 2,3 link), ... none of them have enabled systematic analysis of the altered carbohydrate structure.

The Transcriptional Profiling of Glycogenes Associated with... - PLOS

<https://journals.plos.org/plosone/article?id=10.1371/journal.pone...> ▼ [翻译此页](#)

作者: T Liu - 2014 - 被引用次数: 21 - [相关文章](#)

2014年9月18日 - GO analysis of the differentially transcribed glycogenes described them ...

Hepatocellular carcinoma (HCC), which is the sixth common ... gene transcription profiling underlying HCC metastasis will provide us and core fucosylation, were demonstrated to be highly expressed in Transcriptional control.

Biomarkers for Hepatocellular Carcinoma - Jiatao Lou, LingFei Zhang ...

<https://journals.sagepub.com/doi/full/10.1177/1179299X16684640> - [翻译此页](#)

作者: J Lou - 2017 - 被引用次数: 33 - [相关文章](#)