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FGF signaling in NAFLD and NASH – paving the way to HCC



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### Contributions of metabolic dysregulation and inflammation ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4474366>

Data are confounded by the asymptomatic nature of the early stages of the disease making the true prevalence uncertain, together with difficulties in tracking **NAFLD progression to NASH**. The risk of HCC in patients with **NASH** and **cryptogenic cirrhosis** (typically this represents **end-stage NASH**) range between 2.4% over 7 years and 12.8% over 3 years .

Cited by: 80 Author: Abigale Lade, Luke A. Noon, Scott L. Fri...  
Publish Year: 2014

### NAFLD in 2017: Novel insights into mechanisms of disease ...

[https://www.researchgate.net/publication/322250413\\_NAFLD\\_in\\_2017\\_Novel\\_insights\\_into...](https://www.researchgate.net/publication/322250413_NAFLD_in_2017_Novel_insights_into...)

Non-alcoholic fatty liver disease (NAFLD) and steatohepatitis (NASH) are liver manifestations of the metabolic syndrome and can progress to **hepatocellular carcinoma (HCC)**.

### MicroRNAs in Nonalcoholic Fatty Liver Disease

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4693153>

Nonalcoholic fatty liver disease (NAFLD) has become the most common liver disorder. Strongly linked to obesity and diabetes, **NAFLD** has the characteristics of complex ...

Cited by: 26 Author: György Baffy  
Publish Year: 2015

### (PDF) Targeting FGF19/FGFR4 Pathway: A Novel Therapeutic ...

[https://www.researchgate.net/publication/283663222\\_Targeting\\_FGF19FGFR4\\_Pathway\\_A...](https://www.researchgate.net/publication/283663222_Targeting_FGF19FGFR4_Pathway_A...)

Aberrant fibroblast growth factor 19 (FGF19) signaling through fibroblast growth factor receptor 4 (FGFR4) has been identified as an oncogenic driver for a subset of patients with HCC.

### Non-Alcoholic Fatty Liver Disease as a Nexus of Metabolic ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5762395>

Jan 09, 2018 · **NAFLD** is closely linked with hepatic insulin resistance. Accumulation of hepatic diacylglycerol activates PKC-ε, impairing insulin receptor activation and insulin-stimulated glycogen synthesis. Peripheral insulin resistance indirectly influences hepatic ...

Cited by: 134 Author: Varman T. Samuel, Gerald I. Shulman  
Publish Year: 2018

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#### Non-Alcoholic Fatty Liver Disease (Medical Condition)

A condition in which fat accumulates in the liver in people who drink little or no alcohol.

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**Name of Journal:** *World Journal of Gastroenterology*

**Manuscript NO:** 52065

**Manuscript Type:** MINIREVIEWS

## Fibroblast growth factor signaling in non-alcoholic fatty liver disease and non-alcoholic steatohepatitis: Paving the way to hepatocellular carcinoma

Ocker M. FGFs in NAFLD, NASH and HCC

Matthias Ocker

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### Abstract

Metabolic disorders are increasingly leading to non-alcoholic fatty liver disease, subsequent steatohepatitis, cirrhosis and hepatocellular carcinoma. Fibroblast growth factors and their receptors play an important role in maintaining metabolic

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**Author:** Bradley Tucker, Huating Li, Xiaoxue Lon... **Publish Year:** 2019

### The role of fibroblast growth factor 21 in the ...

<https://www.sciencedirect.com/science/article/pii/S0026049514003679>

The role of **fibroblast growth factor 21** in the pathogenesis of **non-alcoholic fatty liver disease** and implications for therapy ... and a few patients will develop end-stage **liver disease** and **hepatocellular carcinoma** . ... The diagnosis and management of **non-alcoholic fatty liver disease**: practice guideline by the American Gastroenterological ...

**Cited by:** 63

**Author:** Jia Liu, Yuan Xu, Yanjin Hu, Guang Wang

**Publish Year:** 2015

### An engineered FGF21 variant, LY2405319, can prevent non ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5126319>

Nov 15, 2016 · **Non-alcoholic fatty liver disease** (NAFLD) is a prevalent obesity-related **disease** that affects large populations throughout the world due to excessive calorie intake and an increasingly sedentary lifestyle. **Fibroblast growth factor 21** (FGF21) has recently emerged as a promising therapeutic candidate for the treatment of obesity and diabetes.

**Cited by:** 22

**Author:** Ju Hee Lee, Yea Eun Kang, Joon Young Ch...

**Publish Year:** 2016

### Up-regulation of FGF15/19 signaling promotes ...

<https://jeccr.biomedcentral.com/articles/10.1186/s13046-018-0781-8> ▾

Jul 04, 2018 · Upregulated **fibroblast growth factor 19** (FGF19) expression in human **hepatocellular carcinoma** (HCC) specimens is associated with tumor progression and poor prognosis. **Nonalcoholic steatohepatitis** (NASH) patients are at high risk for malignant transformation into HCC. A **steatohepatitis**-HCC model was established in male C57L/J mice treated with N-nitrosodiethylamine (DEN) and high ...

**Cited by:** 5

**Author:** Guozhen Cui, Robert C. Martin, Hang Jin, Xi...

**Publish Year:** 2018 **Author:** Guozhen Cui

### Complementary Role of Fibroblast Growth Factor 21 and ...

<https://www.nature.com/articles/s41598-017-05257-5>





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## The role of fibroblast growth factor 21 in the ...

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Publish Year: 2016

## Up-regulation of the fibroblast growth factor 8 subfamily ...

<https://aasldpubs.onlinelibrary.wiley.com/doi/full/10.1002/hep.24099>

HCC often emerges with a background of persistent liver injury, inflammation, and hepatocellular proliferation, which are characteristic of chronic hepatitis and cirrhosis. 3 It is assumed that these liver diseases induce increasing aberrations in cellular signaling networks, which lead to the appearance of early precursor lesions of cancer. 4, 5 These lesions overrespond to growth stimulatory cytokines and show enhanced proliferation and insufficient elimination ...

Cited by: 101 Author: Christine Gauglhofer, Sandra Sagmeister,...

Publish Year: 2011