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MicroRNAs control neurobehavioral development and function in zebrafish

[\[HTML\] nih.gov](#)[TL Tal](#), [JA Franzosa](#), [SC Tilton](#), [KA Philbrick](#)... - The FASEB ..., 2012 - fasebj.org

... MicroRNAs (miRNAs) are small, noncoding RNAs that function as regulators of posttranscriptional gene expression ... and cDNA synthesis kit; SYBR Green master mix; and microRNA primer sets ... few in vivo studies have investigated structural responses to miRNA repression (54 ...

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Chronic alcohol exposure induces muscle atrophy (myopathy) in zebrafish and alters the expression of microRNAs targeting the Notch pathway in skeletal muscle

[sci-hub下载](#)[A Khayrullin](#), [L Smith](#), [D Mistry](#), [A Dukes](#), [YA Pan](#)... - Biochemical and ..., 2016 - Elsevier

... to muscle atrophy at least in part by altering the expression of microRNAs in skeletal ... of miRNAs were decreased in fish skeletal muscle after ethanol treatment, the microRNA miR-146a ... Consistent with the miRNA data showing a downregulation of the majority of miRNAs, the ...

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Incorporating zebrafish omics into chemical biology and toxicology

[\[PDF\] researchgate.net](#)[H Sukardi](#), [CY Ung](#), [Z Gong](#), [SH Lam](#) - Zebrafish, 2010 - liebertpub.com

... has indicated that estrogen regulates gene expression by modulating miRNA expression (mir-196b) as ... treated with perfluorooctane sulfonate and identification of differentially expressed proteins such ... of both transcriptomics and proteomics in livers of adult zebrafish treated with ...

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Chronic Intermittent Ethanol Treatment in Rats Increases GABA_A Receptor $\alpha 4$ -

[\[PDF\] wiley.com](#)

Possible Relevance to Alcohol Dependence

Name of Journal: *World Journal of Hepatology*

Manuscript NO: 46963

Manuscript type: ORIGINAL ARTICLE

Basic Study

Prolonged high-fat-diet feeding promotes non-alcoholic fatty liver disease and alters gut microbiota in mice

Velázquez KT *et al.* High-Fat-Diet and NAFLD alters gut microbiota

Kandy T Velázquez, Reilly T Enos, Jackie E Bader, Alexander T Sougiannis, Meredith S Carson, Ioulia Chatzistamou, James A Carson, Prakash Nagarkatti, Mitzi Nagarkatti, E Angela Murphy

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Non-alcoholic fatty liver disease, diet and gut microbiota

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4464355>

May 07, 2014 · Introduction. **NAFLD** is a multifactorial disease that involves a complex interaction of genetics, **diet**, and lifestyle, all of which combine to form the **NAFLD phenotype**. A cornerstone of the management strategy in such patients with **fatty liver** is the use of **diet** to decrease body weight, and improve glycemic control,...

Cited by: 16

Author: Carmine Finelli, Giovanni Tarantino

Publish Year: 2014

Implication of Gut Microbiota in Nonalcoholic Fatty Liver ...

journals.plos.org/plospathogens/article?id=10.1371/journal.ppat.1004559 ▾

Implication of **Gut Microbiota** in Nonalcoholic **Fatty Liver Disease**. ... A metabolomic study in C129S6 **mice** showed that **feeding** a HFD shifts the **gut microbiota** into a choline ... Bruneau A, Rabot S, et al. (2012) Intestinal **microbiota** determines development of non-alcoholic **fatty liver disease in mice**. *Gut* 62: 1787–1794. pmid:23197411 . View ...

Published

in: [PLOS Pathogens](#) · 2015

Authors: [Jerome Boursier](#) · [Anna Mae Diehl](#)

Affiliation: [Duke University](#)

About:

[Cohort study](#) · [Severity of illness](#) · [Gastrointestinal tract](#) · [Cross-sectional study](#) · [Fatt...](#)

High-fat diet overfeeding promotes nondetrimental liver ...

<https://www.physiology.org/doi/abs/10.1152/ajpgi.00022.2018>

High-fat diet (**HFD**) feeding or **leptin-deficient** mice are extensively used as models resembling features of human **nonalcoholic fatty liver disease (NAFLD)**. The concurrence of experimental factors as **fat content** and source or total **caloric intake** leads to prominent differences in the development of the **hepatic steatosis** and related disturbances.

Author: Lino Arisqueta, Hiart Navarro-Imaz, I...

Publish Year: 2018

(PDF) Protective effect of quercetin on high-fat diet ...

https://www.researchgate.net/publication/310834849_Protective_effect_of_quercetin_on...

Protective effect of quercetin on **high fat** diet induced non-alcoholic **fatty liver disease in mice** in

24,200 Results

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Gut Microbiota and Nonalcoholic Fatty Liver Disease ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4813164>

Mar 15, 2016 · Gut microbiota are intricately involved in the development of obesity-related metabolic diseases such as nonalcoholic fatty liver disease (NAFLD), type 2 diabetes, and insulin resistance. In the current review, we discuss the role of gut microbiota in the ...

Cited by: 25

Author: Xuyun He, Guang Ji, Wei Jia, Houkai Li

Publish Year: 2016

Non-alcoholic fatty liver disease, diet and gut microbiota

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4464355>

May 07, 2014 · Introduction. NAFLD is a multifactorial disease that involves a complex interaction of genetics, diet, and lifestyle, all of which combine to form the NAFLD phenotype. A cornerstone of the management strategy in such patients with fatty liver is the use of diet to decrease body weight, and improve glycemic control,...

Cited by: 16

Author: Carmine Finelli, Giovanni Tarantino

Publish Year: 2014

Gut microbiota, fatty liver disease, and hepatocellular ...

<https://www.sciencedirect.com/science/article/pii/S2542568418000041>

Acetylcholine plays critical roles in diverse physiological processes in the liver, including lipid metabolism, signaling through lipid second messengers, enterohepatic circulation of bile acids, and cholesterol metabolism. 33 Choline is an essential nutrient and low-choline diets can cause health problems in humans, including fatty liver disease. 34, 35 Choline levels are not only influenced by dietary and genetic factors, 36 but are also modulated by the gut microbiota...

Cited by: 4

Author: Huikuan Chu, Huikuan Chu, Brandon Will...

Publish Year: 2018

Implication of Gut Microbiota in Nonalcoholic Fatty Liver ...

<https://journals.plos.org/plospathogens/article?id=10.1371/journal.ppat.1004559>

Conventional C57BL/6J mice fed with a high-fat diet (HFD) for 16 weeks generally display liver steatosis, hyperglycemia, and systemic inflammation (responders), but some mice are nonresponders, developing no metabolic disorder with this dietary manipulation. To explore the potential role of gut microbiota in these discrepant responses, gut microbiota from a responder or from a nonresponder ...

Gut microbiota manipulation with prebiotics in patients ...

<https://bmcgastroenterol.biomedcentral.com/articles/10.1186/s12876-015-0400-5>

Dec 03, 2015 · Non-alcoholic fatty liver disease (NAFLD) is now the most common cause of chronic liver disease worldwide [1]. NAFLD can progress from simple steatosis to non-alcoholic steatohepatitis (NASH) and finally to cirrhosis and its complications (e.g. hepatocellular carcinoma...

Cited by: 18

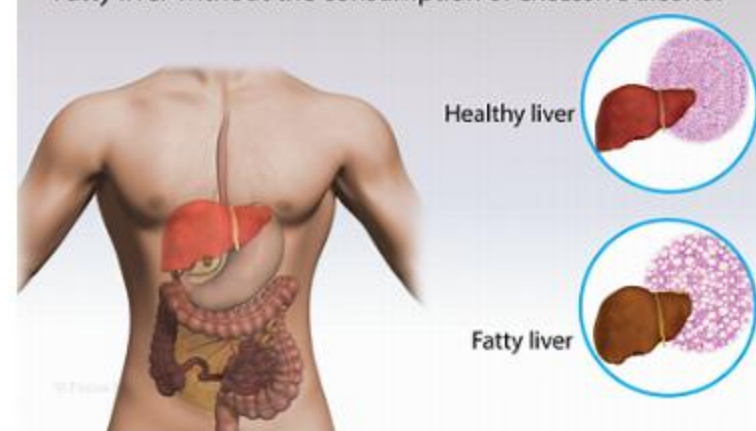
Author: Jennifer E. Lambert, Jill A. Parnell, Bertus...

Publish Year: 2015

Non-Alcoholic fatty liver disease

Medical Condition

Fatty liver without the consumption of excessive alcohol



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

- Very common (More than 3 million cases per year in US)
- Requires lab test or imaging
- Treatments can help manage condition, no known cure
- Can last several years or be lifelong

The cause of non-alcoholic fatty liver disease is not clearly understood. It is associated with obesity, insulin resistance, hyperglycemia, and high levels of fat in blood. The condition does not usually cause symptoms. In some cases, fatigue, enlarged liver, and pain in the upper right abdomen is seen. Non-alcoholic fatty liver disease has no specific treatment. It involves treating underlying conditions such as obesity.

Symptoms

Usually asymptomatic. Symptoms may include:

- Fatigue
- Enlarged liver
- Pain the upper right abdomen
- Ascites (swelling in the belly)
- Jaundice
- Enlarged spleen

If it progresses to cirrhosis, the following symptoms are seen:

- Enlarged breasts in men