

Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 38213

Manuscript Type: MINIREVIEWS

**Multimomics biomarkers for the prediction of nonalcoholic fatty liver disease severity**

Carlos J Pirola, Silvia Sookoian

### Abstract

This review intends to uncover how information from large-scale genetic profiling (whole genome sequencing – GWAS, and whole exome sequencing – WES) of nonalcoholic fatty liver disease (NAFLD), as well as information from circulating transcriptomics (cell-free miRNAs) and metabolomics, contributes to the understanding of NAFLD pathogenesis. A further aim is to address the question of whether OMICs


### Match Overview

1	<b>Crossref</b> 219 words Sookoian, Silvia, and Carlos J Pirola. "Personalizing care for nonalcoholic fatty liver disease patients: what are the challenges?" <i>World Journal of Gastroenterology</i> 2017; 23(12): 219-226.	5%
2	<b>Internet</b> 58 words crawled on 27-Apr-2011 <a href="http://www.lifeextensionretail.com">www.lifeextensionretail.com</a>	1%
3	<b>Internet</b> 49 words crawled on 29-Mar-2017 <a href="http://www.e-sciencecentral.org">www.e-sciencecentral.org</a>	1%
4	<b>Crossref</b> 42 words Silvia Sookoian, Cristian Rohr, Adrián Salatino, Hernán Dopazo et al. "Genetic variation in long noncoding RNAs and its impact on liver disease severity." <i>World Journal of Gastroenterology</i> 2017; 23(12): 227-236.	1%
5	<b>Internet</b> 33 words crawled on 19-Feb-2017 <a href="http://www.jove.com">www.jove.com</a>	1%
6	<b>Crossref</b> 32 words Ghoneim, Ragia H., Emilienne T. Ngo Sock, Jean-Marc Lavoie, and Micheline Piquette-Miller. "Effect of a high-fat diet on liver disease severity." <i>World Journal of Gastroenterology</i> 2017; 23(12): 237-246.	1%
7	<b>Crossref</b> 30 words Ebbers, E.J.. "Controlled racemization of optically active organic compounds: Prospects for asymmetric transformation." <i>World Journal of Gastroenterology</i> 2017; 23(12): 247-256.	1%
8	<b>Internet</b> 26 words crawled on 21-Jan-2015 <a href="http://bioseq.cn">bioseq.cn</a>	1%
9	<b>Crossref</b> 23 words Pirola, Carlos J, and Silvia Sookoian. "The dual and opposite role of the TM6SF2 -rs58542926 Variant in Protecting against liver disease severity." <i>World Journal of Gastroenterology</i> 2017; 23(12): 257-266.	1%

[全部](#)[图片](#)[新闻](#)[视频](#)[购物](#)[更多](#)[设置](#)[工具](#)


找到约 22,400 条结果 (用时 0.33 秒)

### A multi-component classifier for nonalcoholic fatty liver disease ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5339694/>  [翻译此页](#)作者 : GC Wood - 2017 - [被引用次数 : 3](#) - [相关文章](#)


2017年3月7日 - **Non-alcoholic fatty liver disease** (NAFLD) represents a spectrum of conditions that include steatohepatitis and fibrosis that are thought to emanate from hepatic steatosis. Few robust **biomarkers** or diagnostic tests have been developed for hepatic steatosis in the setting of obesity. We have developed a ...

### Multi-omic profiles of human non-alcoholic fatty liver disease tissue ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4672680/>  [翻译此页](#)作者 : W Wruck - 2015 - [被引用次数 : 16](#) - [相关文章](#)

2015年12月8日 - **Non-alcoholic fatty liver disease** (NAFLD) is a consequence of sedentary life style and high fat diets with an estimated prevalence of about 30% in western ... These datasets may help other researchers find new clues for the etiology of NAFLD and the mechanisms underlying its progression to more **severe** ...

### [PDF] Noninvasive diagnosis of nonalcoholic fatty liver disease - Annals of ...

[www.annalsofhepatology.com/revista/numeros/2009/HP09s5.pdf](http://www.annalsofhepatology.com/revista/numeros/2009/HP09s5.pdf)  [翻译此页](#)作者 : RP Myers - 2009 - [被引用次数 : 55](#) - [相关文章](#)

Annals of. Hepatology. Noninvasive diagnosis of **nonalcoholic fatty liver disease**. Robert P. Myers. **Liver** Unit, Division of Gastroenterology, Department of. Medicine, University ... ing these lesions, including the **severity** of hepatic fibro- sis, is **liver** biopsy. .... identification of **biomarkers for the prediction** of hepatic fibrosis (see ...

### [PDF] Mediterranean Diet and Multi-Ingredient-Based Interventions ... - MDPI

[www.mdpi.com/2072-6643/9/10/1052/pdf](http://www.mdpi.com/2072-6643/9/10/1052/pdf)  [翻译此页](#)作者 : M Suárez - 2017 - [被引用次数 : 1](#)

2017年9月22日 - Furthermore, the usefulness of **omics** techniques to design effective **multi-ingredient** nutritional interventions and to **predict** and monitor their response against these disorders is also



[全部](#)[新闻](#)[图片](#)[视频](#)[购物](#)[更多](#)[设置](#)[工具](#)

找到约 2,840 条结果 (用时 0.39 秒)

### Biomarkers in nonalcoholic fatty liver disease-the emperor has no ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4363751/> ▼ [翻译此页](#)

作者 : MG Sanal - 2015 - 被引用次数 : 22 - [相关文章](#)

2015年3月21日 - Keywords: **Nonalcoholic fatty liver disease**, **Biomarkers**, Fibrosis, Cirrhosis, Steatohepatitis, Liver biopsy ..... The AST-to-platelet ratio index (APRI) was developed as a simple, easy to use method in clinics to **predict**, **severe** fibrosis or cirrhosis in both HCV mono-infected and co-infected (HCV and HIV) ...

缺少字词 : multiomics

### Noninvasive biomarkers in non-alcoholic fatty liver disease: Current ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4138464/> ▼ [翻译此页](#)

作者 : E Fitzpatrick - 2014 - 被引用次数 : 75 - [相关文章](#)

2014年8月21日 - Core tip: The search for non invasive **biomarkers** is a major focus of interest in the field of **nonalcoholic fatty liver disease** (NAFLD). Though the diagnosis of NAFLD is still a histological one, the dramatic rise in prevalence and the spectrum of **severity** mean that liver biopsy has become impractical for all.

缺少字词 : multiomics

### Comparisons of parallel potential biomarkers of 1H-MRS-measured ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4832180/> - [翻译此页](#)

作者 : KL Shih - 2016 - 被引用次数 : 5 - [相关文章](#)

2016年4月15日 - **Non-alcoholic fatty liver disease** (NAFLD) is the main cause of chronic liver disease. This cross-sectional study aimed to evaluate whether parallel clinical features and serum markers are related to the **severity** of NAFLD. We enrolled 111 participants with different metabolic syndrome (MetS) scores (zero, ...

缺少字词 : multiomics

### Multi-omic profiles of human non-alcoholic fatty liver disease tissue ...

[www.nature.com](http://www.nature.com) > [scientific data](#) > [data descriptors](#) ▼ [翻译此页](#)

找到约 15,300 条结果 (用时 0.53 秒)

### Prediction of Nonalcoholic Fatty Liver Disease Via a Novel Panel of ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4748893/> ▼ 翻译此页

作者: R Jamali - 2016 - 被引用次数: 21 - 相关文章

2016年2月8日 - Considering limitations of **liver** biopsy for diagnosis of **nonalcoholic liver disease** (NAFLD), **biomarkers**' panels were proposed. The aims of this study were to establish models based on serum adipokines for discriminating NAFLD from healthy individuals and **nonalcoholic** steatohepatitis (NASH) from ...

缺少字词: **multiomics**

### Noninvasive biomarkers in non-alcoholic fatty liver disease: Current ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4138464/> ▼ 翻译此页

作者: E Fitzpatrick - 2014 - 被引用次数: 75 - 相关文章

2014年8月21日 - Core tip: The search for non invasive **biomarkers** is a major focus of interest in the field of **nonalcoholic fatty liver disease** (NAFLD). Though the diagnosis of NAFLD is still a histological one, the dramatic rise in prevalence and the spectrum of **severity** mean that liver biopsy has become impractical for all.

缺少字词: **multiomics**

### Biomarkers in nonalcoholic fatty liver disease-the emperor has no ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4363751/> ▼ 翻译此页

作者: MG Sanal - 2015 - 被引用次数: 22 - 相关文章

2015年3月21日 - No wonder that efforts to find a highly specific and sensitive **biomarker** for NAFLD have not become successful. About a quarter of **fatty livers** develop **liver** inflammation [**nonalcoholic** steatohepatitis (NASH)] and over a quarter of NASH patients develop **severe** fibrosis. We need **biomarkers** for the excess **fat** ...

缺少字词: **multiomics**

### Multi-omic profiles of human non-alcoholic fatty liver disease ... - Nature

<https://www.nature.com/scientificdata/> > Scientific Data > Data Descriptors - 翻译此页

作者: W Wruck - 2015 - 被引用次数: 17 - 相关文章

2015年12月8日 - **Non-alcoholic fatty liver disease** (NAFLD) is a consequence of sedentary life style and