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Pleiotropy within gene variants associated with nonalcoholic fatty liver disease and traits of the hematopoietic system

Carlos Jose Pirola, Adrian Salatino, Silvia Sookoian

Abstract

Genome-wide association studies of complex diseases, including nonalcoholic fatty liver disease (NAFLD), have demonstrated that a large number of variants are implicated in the susceptibility of multiple traits — a phenomenon known as pleiotropy that is increasingly being explored through phenome-wide association studies. We focused on the analysis of pleiotropy within variants associated with hematologic traits and NAFLD. We leveraged information

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Genetic factors account for a significant proportion of the phenotypic variance of **nonalcoholic fatty liver disease** (NAFLD); however, very few predisposing **genes** have been identified. We aimed to (1) identify novel **genetic** associations with NAFLD by performing a genome-wide association study (GWAS), and (2) examine the biological expression ...

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Mar 18, 2020 · 1.1 Definition, Prevalence, and Incidence of NAFLD. Being the most prevalent chronic **liver disease** worldwide (Li et al. 2019), **nonalcoholic fatty liver disease** (NAFLD) covers a **diseases** spectrum, initiating with hepatic steatosis which is defined by the presence of $\geq 5\%$ hepatic fat (referred to steatosis) in the absence of any secondary cause of hepatic steatosis such as chronic viral ...

Author: Lingling Ding, Yvonne Oligschlaeger, Ro...

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Non-alcoholic fatty liver disease (NAFLD) is a major cause of **liver disease** worldwide. Some **genetic variants** might be involved in the progression of this **disease**. The study hypothesized that individuals with the rs7359397 T allele have a higher risk of developing severe stages of NAFLD compared with non-carriers where dietary intake according to genotypes could have a key role on the ...

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Jun 01, 2015 · T. Kawaguchi, Y. Sumida, A. Umemura, et al. **Genetic** polymorphisms of the human PNPLA3 **gene** are strongly **associated** with severity of **non-alcoholic fatty liver disease** in Japanese PLoS One, 7 (2012), p. e38322

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The **genetic pleiotropy** between the aforementioned **variants** and **non-liver** related **traits** includes known **NAFLD-associated comorbidities**, such as cardiovascular risk. Phenotypic covariation presents not only significant challenges in clinical practice but also imposes tremendous constraints on identifying **novel therapeutic targets**.

Association of the SH2B1 rs7359397 Gene Polymorphism ...

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[Genome-Wide Association Study Identifies Variants ...](#)

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Nov 01, 2010 - **Nonalcoholic fatty liver disease** (NAFLD) is a common liver condition affecting up to 25%