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<sup>1</sup>H nuclear magnetic resonance of hydrogen-based metabonomic models for non-invasive diagnosis of liver fibrosis in chronic hepatitis C: Optimizing the classification of intermediate fibrosis

Batista AD *et al.* Metabonomics for assessment of liver fibrosis

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## Abstract

The gold standard in assessing liver fibrosis in chronic hepatitis C (CHC) is hepatic histopathology by biopsy, an invasive method subject to complications, which explains the search for surrogate markers. Metabonomics is an analytical strategy that uses <sup>1</sup>H nuclear magnetic resonance of hydrogen (NMR) spectra to classify biofluids, based on their biochemical status. This study set out to develop metabonomic models (MMs), using <sup>1</sup>H NMR spectra of serum, to predict significant liver fibrosis (SF: Metavir ≥ F2), advanced liver fibrosis (AF: METAVIR ≥ F3) and cirrhosis (C:

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The aim of the study was to assess the feasibility of metabonomics in clinical studies. A <sup>1</sup>H nuclear magnetic resonance (NMR)-based metabonomic analysis was performed on plasma and urine samples obtained from a group of 12 healthy male subjects on two separate study days 14 days apart. The subjects were fed a ...

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