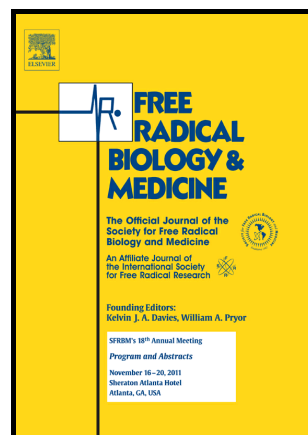


## Author's Accepted Manuscript

### REACTIVE GAMMA-KETOALDEHYDES AS NOVEL ACTIVATORS OF HEPATIC STELLATE CELLS IN VITRO

Lisa Longato, Fausto Andreola, Sean S. Davies, Jackson L. Roberts, Giuseppe Fusai, Massimo Pinzani, Kevin Moore, Krista Rombouts



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Longato

REACTIVE GAMMA-KETOALDEHYDES AS NOVEL ACTIVATORS OF HEPATIC  
STELLATE CELLS IN VITRO

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Running head: Isolevuglandins activate hepatic stellate cells.

## ABSTRACT

**Aims.** Products of lipid oxidation, such as 4-hydroxynonenal (4-HNE), are key activators of hepatic stellate cells (HSC) to a pro-fibrogenic phenotype. Isolevuglandins (IsoLG) are a family of acyclic  $\gamma$ -ketoaldehydes formed through oxidation of arachidonic acid or as by-products of the cyclooxygenase pathway. IsoLGs are highly reactive aldehydes which are efficient at

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