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The production of extracellular lysophosphatidic acid in the regulation of metabolism and liver fibrosis

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Abstract

Lysophosphatidic acid (LPA), a glycerophospholipid, consists of a glycerol backbone connected to a phosphate head group and an acyl chain linked to sn-1 or sn-2 position. In the circulation, LPA is in sub-millimolar range and mainly derived from hydrolysis of lysophosphatidylcholine (LPC), a process mediated by lysophospholipase D (lysoPLD)

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2008年4月11日 - The development of fibrosis involves a multitude of events and molecules. Until now the majority of these molecules were found to be proteins or peptides. But recent data show significant involvement of the phospholipid lysophosphatidic acid (LPA) in the development of pulmonary, liver and renal fibrosis.

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2018年3月23日 - Keywords: **lysophosphatidic acid**; lysophospholipids; autotaxin; obesity; insulin resistance; **adipocytes**; cardiovascular **disease**; diet The ATX-LPA axis is not only implicated in obesity, but may play an important **role** in the **regulation** of glucose homeostasis and insulin sensitivity. Subjecting ATX^{+/-} and ...

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