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ACCEPTED MANUSCRIPT

ACUTE LIVER FAILURE IS ASSOCIATED WITH ALTERED CEREBRAL

EXPRESSION PROFILES OF LONG NON-CODING RNAs

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Highlights

- Azoxymethane-induced ALF in mice at coma stage results in many differentially regulated long noncoding RNAs (IncRNAs) in the frontal cortex.
- Analysis revealed these IncRNAs target pathways such as cytokine receptor interaction, mitogen activated protein kinase signaling, insulin signaling, NF-κB signaling and tumor necrosis factor signaling.
- FDR adjustment identified two upregulated IncRNAs which may contribute to lactate production and astrocyte cytoskeletal disruption/swelling.
- Findings suggest an important role for IncRNAs in inflammation, the neuropathological consequences of ALF, and in terms of the functional basis of HE.

Abstract

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