Acyl-carnitine, C5DC, and C26 as potential biomarkers for diagnosis of autism spectrum disorder in children

Qian-Qian Lv , Cong You , Xiao-Bing Zou , Hong-Zhu Deng

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Highlights

- Our manuscript is the first description about the changes in the acyl-carnitine spectrum in Chinese preschool children with autism spectrum disorder (ASD), which indicates potential mitochondrial dysfunction and abnormal fatty acid metabolism in ASD.
- Importantly, our findings indicate that blood levels of glutaryl carnitine and carnosyl carnitine might be potential biomarkers for diagnosis of ASD.

Abbreviations

TD: typically developing, ASD: autism spectrum disorder, BMI: body mass index, TG: triglyceride, TC: total cholesterol, AST: aspartate aminotransferase, ALT: alanine aminotransferase, Cr: creatinine, BUN: blood urea nitrogen.