

## Accepted Manuscript

Title: Circulating betatrophin concentration is negatively correlated with insulin resistance in obese children and adolescents

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## 1 Highlights

- 2 • Levels of betatrophin are significantly lower in obese and insulin resistant children  
3 compared to healthy controls, and negatively correlated with atherogenic indices
- 4 • Hyperinsulinism and/or insulin resistance might result in decreased betatrophin levels in  
5 obese subjects as a negative feedback mechanism as well as increasing insulin secretion in  
6 normal metabolic situation
- 7 • Serum betatrophin concentrations might act as a potential biomarker of insulin resistance in  
8 obese children or adolescents.
- 9

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