Variations of 18q21.23 rs17782313 locus and regulation of hypothalamic-pituitary axis hormones and cardio-metabolic risk factors in obesity

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Dear Editor,

The article on “Dietary patterns interact with the variations of 18q21.23 rs17782313 locus on regulation of hypothalamic-pituitary axis hormones and cardio-metabolic risk factors in obesity” is very interesting [1]. Mohammadi et al. noted that “being on CC genotype of rs17782313 polymorphism made obese individuals more prone to have higher SBP, insulin and AgRP even in highest adherence to PDP [1]”. Indeed, the rs17782313 polymorphism basically results in molecular change that can further affect final phenotypic expression. Nevertheless, there are also other factors that might alter the phenotypic expression. Regarding the cardio-metabolic risk factors in obesity, there might also be possible effects of other genetic polymorphisms such as cocaine and amphetamine-regulated transcript prepropeptide gene polymorphisms [2]. Further studies that assess the effects of those confounding genetic polymorphisms should be set.

Ethical approval This article does not contain any studies with human participants performed by any of the authors.

Informed consent For this type of study, formal consent is not required.

References

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2. Mahmoudi-Nezhad M, Farhangi MA, Kahroba H (2020) Cocaine and amphetamine-regulated transcript prepropeptide gene (CARTPT) polymorphism interacts with Diet Quality Index-International (DQI-I) and Healthy Eating Index (HEI) to affect hypothalamic hormones and cardio-metabolic risk factors among obese individuals. *J Transl Med* 18(1):16. <https://doi.org/10.1186/s12967-020-02208-z>

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Compliance with ethical standards

Conflict of interest All authors declare that they have no conflict of interest.

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