

β 3-adrenergic receptor polymorphism is related to cardiometabolic risk factors in obese Brazilian subjects

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Genet. Mol. Res. 9 (3): 1392-1397 (2010)
Received March 11, 2010
Accepted May 20, 2010
Published July 20, 2010
DOI 10.4238/vol9-3gmr819

ABSTRACT. We determined whether *ADR β 3* polymorphism is associated with obesity-related traits in 140 obese patients. Molecular analysis was performed by PCR and RFLP. Individuals carrying the Arg64 allele had a lower waist-to-hip ratio, higher adiponectin and high-density lipoprotein cholesterol levels, and a tendency towards lower blood pressure. In contrast, Trp64/Trp64 carriers were at greater risk for dysmetabolic phenotypes (odds ratio = 2.88, P = 0.03).

Key words: Adrenergic receptor; Obesity; Polymorphism; Adiponectin; Cardiometabolic risk factor