

Obesity and Leanness Caused by Mutations in the Leptin Gene: Already 6 Pathogenic Mutations Reported in this Gene

Muhammad Wasim*

Institute of Biochemistry and Biotechnology, University of Veterinary and Animal Sciences, Lahore, Pakistan

***Corresponding author:** Muhammad Wasim, Institute of Biochemistry and Biotechnology, University of Veterinary and Animal Sciences, Lahore, Punjab 54000, Pakistan, Tel: 923224990977; E-mail: mm.waseenjee@gmail.com

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Abstract

Obesity and leanness are the medical conditions in which excess and deficient body fat present respectively. It may have an adverse effect on health, leading to reduced life expectancy and increased health problems. Environmental factors, especially increased consumption of high caloric diet, are considered responsible for the obesity epidemic, although genetic factors also contribute dysregulation of food consumption. Leptin gene may have an effect on the obesity and leanness because six pathogenic mutations already reported in leptin gene. Leptin gene mutations have a vital role to cause different types of cancers.

behavior. Potentially, leptin therapy could sustain weight loss by overriding the tendency toward energy conservation [16]. In the above it is mentioned that six pathogenic mutations were found in leptin gene that's showed leptin gene involved in the obesity and leanness [13].

Effect

Diseases which are associated with obesity involved; certain types of cancers, type II diabetes, heart diseases, obstructive sleep apnea, osteoarthritis and many more [17]. Leanness causes certain types of cancer; anorexia nervosa and reduced self-esteem. Anorexia Nervosa (AN) is an eating disorder in which at least 15% of expected body weight loss. Anorexia nervosa is life-threatening as well as psychological disturbance. Reduced self-esteem is a condition which is caused by AN [18]. It is reported that muscle weakened by computed tomography as compare to whole body fat and increases with testosterone [19]. In another article it is reported that leptin has a vital role to cause different types of cancers [20].

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