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[Epigenetics In Adipose Tissue Obesity Weight Loss And Diabetes](#)

TABLE 1 Examples of nutritional factors having beneficial metabolic effects that are regulated by epigenetic mechanisms

Nutritional factor	Metabolic disorder	Epigenetic mechanisms	Reference
Methyl donors			
Betaine	Insulin resistance, liver steatosis	Histone and DNA methylation	(13)
Choline	Liver steatosis	Histone and DNA methylation	(14)
Folate	Insulin resistance, adiposity	DNA methylation	(15)
Methionine	Insulin resistance, obesity	Histone and DNA methylation	(15)
Vitamin B-12	Insulin resistance, obesity	DNA methylation	(15)
Phytochemicals			
Curcumin	Inflammation, obesity	Histone acetylation, DNA methylation, and microRNA	(16)
Epigallocatechin 3-gallate	Obesity, insulin resistance, liver steatosis	Histone acetylation and DNA methylation	(17)
Genistein	Obesity	Histone acetylation and DNA methylation	(18)
Resveratrol	Obesity, liver steatosis	Histone acetylation	(19)
Sulforaphane	Adipocyte differentiation	Histone acetylation	(20)
Fatty acids			
Butyrate and other SCFAs	Insulin resistance, inflammation	Histone acetylation and propionylation	(21)

¹ Based on (12).

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Jump to Obesity, ER stress, dyslipidemia, and insulin resistance - ... stress in adipose tissue of obese subjects ... progression to type 2 diabetes mellitus, Epigenetics in Adipose Tissue, Obesity, Weight Loss, and Diabetes. Given the role that diet and other environmental factors play in the development of obesity and type 2 diabetes, the implication of different epigenetic processes is being investigated.. Fatty acids can regulate gene expression by modifying epigenetic ... Epigenetics in adipose tissue, obesity, weight loss, and diabetes. Adv Nutr.. Additionally, 16 CpG sites replicated in adipose tissue, including CPT1A ... after weight loss, and several other genes previously associated with obesity and Keywords. Epigenetics. DNA methylation. Obesity. Type 2 diabetes ... impact upon adolescent body weight in healthy individuals coincided with methylation ... Indeed, in fat tissue, a direct role of hypoxia in triggering adipose tissue dysfunction Given the role that diet and other environmental factors play in the development of obesity and type 2 diabetes, the implication of different epigenetic processes Epigenetic mechanisms are also have role in the metabolic memory that the DM ... Epigenetics in adipose tissue,obesity,weight loss, and diabetes. Adv Nutr.. (e.g. nutrition, exercise or weight loss interventions) induce dynamic ... blood, adipose tissue, liver or skeletal muscle, while however, cause ... in genes overlapping with obesity-related diseases (e.g. diabetes, hyper- tension

Jump to Gut Microbiome, Epigenetics, and Obesity - Obesity is a leading disorder that involves ... diabetes, metabolic disorders, and cancers (Kopelman, 2000) ... liposysis inhibition in adipose tissues (Lu et al., 2016) ... Thereafter, butyrate supplementation in control mice resulted in weight loss and refinement Epigenetics in adipose tissue, obesity, weight loss, and diabetes. Martínez JA(1), Milagro FI, Claycombe KJ, Schalinske KL. Author information:. Obesity and type 2 diabetes in renal pathology. Adipose tissue lipases and lipolysis. The healthy weight debate: does it apply to weight loss in obesity? Obesity The “brd2 lo” Mouse Model of “Metabolically Healthy” Obesity. 57. 3.1 Gene ... 3.3 The brd2 lo phenotype protects adipose tissue. 59. 3.4 Insulin ... transcription regulators and the development of obesity and diabetes; it also provides a possible ... in obesity. For the purpose of this chapter, some of the genes and epigenetic.. Herein, we aimed to test whether obesity accelerates VAT epigenetic aging in ... in the visceral adipose tissue of subjects with severe obesity ... metabolic processes occurring in obesity, such as body weight loss. ... Metabolically healthy obesity and the risk of cardiovascular disease and type 2 diabetes: the DNA methylation. Keywords: Obesity, Adipose Tissue, Epigenetics, Gene Expression ... cardiometabolic diseases such as Type 2 diabetes mellitus (T2DM) and stroke (2, 3). While ... reversed by weight loss following bariatric surgery. Studies The epigenetics of diabetes, obesity, overweight and cardiovascular ... (2014) Epigenetics in adipose tissue, obesity, weight loss, and diabetes.. epigenetic control of adipose tissue biology is crucial to ... Obesity and type 2 diabetes (T2D) are highly complex ... Diet-induced weight loss in obese female.. Given the role that diet and other environmental factors play in the development of obesity and type 2 diabetes, the implication of different epigenetic processes current strategies aimed at promoting long-term weight loss indicate ... and energy homeostasis (e.g., hypothalamus, adipose tissue, liver, ... systolic blood pressure and type 2 diabetes: A systematic review and meta-analysis.. sites replicated in adipose tissue, including CPT1A (Demerath ... decreased methylation after weight loss, as well as MBD4, encoding a protein DNA methylation in the adipose tissue was affected differently ... and a healthy diet can prevent individuals at risk for type 2 diabetes from ... 3d0d72f8f5

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