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Is obesity in our genes? Study strengthens genetic link to body size
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Interview - \"Fasting pathway\" points the way to new class of diabetes
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The percentage of obesity that can be attributed to genetics varies widely, depending on the population examined, from 6% to 85%. As of 2006, more than 41 sites on the human genome have been linked to the development of obesity when a favorable environment is present.

Genetics of obesity - Wikipedia

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The genetics of human obesity Introduction. In the search for causes of the recent obesity epidemic, emphasis has been placed on the “obesogenic... Heritability. The inherited propensity toward obesity has been supported by numerous family and twin studies, many of... Monogenic Obesity Models. ...

The genetics of human obesity - ScienceDirect

Rarely, obesity occurs in families according to a clear inheritance pattern caused by changes in a single gene. The most commonly implicated gene is MC4R, which encodes the melanocortin 4 receptor. Changes in MC4R that diminish its function are found in a small fraction (< 5%) of obese people in various ethnic groups.

Genes and obesity | CDC

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Molecular genetics of human obesity: A comprehensive review 1. Introduction. Obesity is a multi-factorial disorder, a condition characterized by an excess of body fats. It is more... 2. Overview of signalling molecules and regulation of feeding behaviour by central nervous system (CNS). Two ...

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Genetics of Obesity in Humans | Endocrine Reviews | Oxford ...

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In the context of molecular genetics, genome-wide association studies (GWAS) approach and their findings signified a number of genetic variants predisposing to obesity. However, the last couple of years, it has also been noticed that alterations in the environmental and epigenetic factors are one of the key causes of obesity.

Molecular genetics of human obesity: A comprehensive ...

However, recent studies suggest that genetics contribute to 40-70% of obesity with the discovery of more than 50 genes that are strongly associated with obesity. While changes in the environment have significantly increased obesity rates over the last 20 years, the presence or absence of genetic factors protect us from or predispose us to obesity.

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Obesity and Genetics - Nature - Nurture - Obesity Medicine ...

Unraveling the Genetics of Human Obesity Introduction. According to the World Health Organization (<http://www.who.int>), there are an estimated 1 billion adults... Monogenic Obesity. To date, nearly 200 cases of human obesity have been associated with a single gene mutation. Syndromic Obesity. There ...

Unraveling the Genetics of Human Obesity

Abstract Obesity is an important cause of morbidity and mortality in developed countries, and is also becoming increasingly prevalent in the developing world. Although environmental factors are important, there is considerable evidence that genes also have a significant role in its pathogenesis.

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The genetics of human obesity - PubMed

Polygenic obesity, on the other hand, the more common form of obesity, refers to obesity that is caused by the combined effect of multiple genetic variants. In 2001, researchers found six genes linked to monogenic (single gene causing) obesity and none to polygenic obesity.

Is Obesity Genetic? How Obesity Plays Into Your Genes ...

Obesity is determined by the interaction between predisposing genetic and environmental aspects, but at present the gene – gene and gene – environment interactions contributing to the development of this complex disease cannot be analysed in detail.

Genetics of human obesity | Proceedings of the Nutrition ...

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Excess body fat or body mass relative to height aggregates in families. It is commonly recognized that this familial aggregation of human obesity is accounted for in part by a significant genetic component. Thus the genetic heritability of the obesity phenotypes accounts for 25 – 40% of the age- and gender-adjusted phenotypic variances.

Genetics of Human Obesity: Recent Results from Linkage ...

(1) Division of Human Genetics, The Children's Hospital of Philadelphia Research Institute, Philadelphia, PA 19104, USA. It has long been known that there is a genetic component to obesity, and that characterizing this underlying factor would likely offer the possibility of

The genetics of human obesity.

Mice with the conditional knockout of BDNF develop obesity and

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hyperactivity, 52 – 54 with subsequent human studies showing a chromosomal inversion leading to the loss of one functional copy of BDNF in an 8-year-old girl; this resulted in increased food intake, severe early-onset obesity, hyperactivity, and cognitive impairment. 55 In addition, a Y722C missense variant in NTRK2 has been ...

The genetics of human obesity

Studies of the genetics of human obesity will continue to aid scientific understanding and fuel clinical advances in a number of ways. Genetics will continue to provide new knowledge regarding the normal physiology of energy balance.

Genetic factors in human obesity - Farooqi - 2007 ...

Genetics of obesity Monday 15 December 2008 “ Eating too much

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and putting on weight may be more to do with one's state of mind rather than a metabolic imbalance," The Independent reported today. It said that a study has found six new genes associated with obesity, five of which are active in the brain.

Genetics of obesity - NHS

Obesity arises from the interactions between an at-risk genetic profile and environmental risk factors, such as physical inactivity, excessive caloric intake, the intrauterine environment, medications, socioeconomic status, and possibly novel factors such as insufficient sleep, endocrine disruptors, and the gastrointestinal microbiome.

Genetics of obesity: what genetic association studies have ...

Genetics of human obesity Karine Clement Inserm 'Avenir',

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Paris, EA3502 and Paris 6 University, Nutrition Department, Hôpital-
Dieu Hospital, AP/HP, Place du Parvis Notre-Dame, 75004 Paris,
France The rapid development of new concepts and tools has led to a
change in the way in which

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