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obesity is closely linked to genetics and environmental factors the newest studies in the field of epigenetics further our understanding of the effect of the environment on genetics this article describes the genetic causes of obesity including syndromic monogenic and polygenic causes and cites specific examples of epigenetic

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however gene discovery studies for both forms of obesity show that they have shared genetic and biological underpinnings pointing to a key role for the brain in the control of body weight

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enormous progress has been made in understanding the genetic architecture of obesity and the correlation of epigenetic marks with obesity and related traits this review highlights current research and its challenges in genetics and epigenetics of obesity

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the genetics of obesity could be classified into syndromic and non syndromic obesity prader willi fragile x bardet biedl cohen and albright hereditary osteodystrophy aho syndromes are examples of syndromic obesity which are associated with developmental delay and early onset obesity

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yet for more than a century physicians have been proposing that some cases of obesity are a function of innate biologic mechanisms or heredity in 1907 the german pathologist carl von noorden

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abstract obesity is a complex multifactorial disease that accumulated excess body fat leads to negative effects on health obesity continues to accelerate resulting in an unprecedented epidemic that shows no significant signs of slowing down any time soon

convergence between biological behavioural and genetic

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multiple biological behavioural and genetic determinants or correlates of obesity have been identified to date genome wide association studies gwas have contributed to the identification

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abstract there is a genetic component to human obesity that accounts for 40 to 50 of the variability in body weight status but that is lower among normal weight individuals about 30 and substantially higher in the subpopulation of individuals with obesity and severe obesity about 60 80

on the origin of obesity identifying the biological

Sep 06 2023

in this critical review we appraise existing theories explaining the evolutionary origins of obesity and explore novel biological and sociocultural agents of evolutionary change to help explain the modern day distribution of obesity predisposing variants

diet genes and obesity the bmj

Aug 05 2023

globally the prevalence of obesity has tripled since 1975 with 671 million adults and 124 million young people 5 19 years estimated to be affected in 2016 1 given the serious associated health and economic consequences of obesity 2 3 4 finding effective weight management strategies is both a national and a global priority 5 6

convergence between biological behavioural and genetic

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multiple biological behavioural and genetic determinants or correlates of obesity have been identified to date genome wide association studies gwas have contributed to the identification of more than 100 obesity associated genetic variants but their roles in causal processes leading to obesity remain largely

unknown

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genetics of obesity a 1680 painting by juan carreño de miranda of a girl presumed to have prader willi syndrome 1 like many other medical conditions obesity is the result of an interplay between environmental and genetic factors

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research shows obesity results from an interaction between environmental and innate biological factors the specific genetic influences of obesity are still being studied but up to 500 specific genes have been linked to obesity these genes can affect factors such as how the body stores fat

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the main cause of obesity is long term energy imbalance between consumed calories and expended calories here we explore the biological mechanisms of obesity with the aim of providing actionable treatment strategies to achieve a healthy body weight from nature to nurture

obesity and genetics what is the connection obesity

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october 30 2023 obesity and genetics what is the connection is obesity genetic identifying the underlying causes of obesity can help equip us to more effectively treat this complex disease

biology of obesity and weight regain implications for

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obesity is a chronic multifactorial disorder of excess lipid accumulation in adipose tissue and in ectopic sites such as in skeletal muscle and the liver

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obesity is defined as having a body mass index bmi greater than or equal to 30 kg m² and in june 2013 the american medical association classified it as a disease in countries of the organisation for economic co operation and development oecd one child out of five is overweight or obese

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the genetics of obesity from discovery to biology ruth j f loos 1 2 3 4 and giles s h yeo 5 abstract the prevalence of obesity has tripled over the past four decades imposing an

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obesity is a serious health condition that affects millions of people worldwide it can increase the risk of many chronic diseases and complications such as diabetes heart disease stroke and some cancers find out how to measure obesity using the bmi scale how to recognize its signs and symptoms and how to prevent and treat it with lifestyle changes and medical interventions

study uncovers gut microbes role in childhood obesity

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obesity related bacteria contribute to obesity development by influencing host energy balance and central hunger through gut brain interactions the study indicated that 16 gut microbiotas

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