

1. Record Nr.	UNINA9910298333503321
Titolo	The genetics of obesity // Struan F.A. Grant, editor
Pubbl/distr/stampa	New York : , : Springer, , 2014
ISBN	1-4614-8642-4
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (viii, 128 pages) : color illustrations
Collana	Gale eBooks
Disciplina	599.935 599935 610 611.01816
Soggetti	Obesity - Genetic aspects
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Genetic Variation and Obesity Prior to the Era of Genome-Wide Association Studies -- Genetic Obesity Syndromes -- Genome-Wide Association Studies of Obesity -- Copy Number Variants and their Contribution to the Risk of Obesity -- Genetics of Childhood Obesity -- Genetic Pleiotropies of Obesity -- Functional Follow-up of Genetic Variants Using FTO as the Prime Example -- Index.
Sommario/riassunto	In the past four years, many genetic loci have been implicated for BMI from the outcomes of genome-wide association studies (GWAS), primarily in adults. Insulin-induced gene 2 (INSIG2) was the first locus to be reported by this method to have a role in obesity, but replication attempts have yielded inconsistent outcomes. The identification of the second locus, the fat mass- and obesity-associated gene (FTO), has been more robustly observed by others. Studies from both FTO knock out and FTO over expression mouse model support the fact that FTO is directly involved in the regulation of energy intake and metabolism in mice, where the lack of FTO expression leads to leanness while enhanced expression of FTO leads to obesity. Along with numerous other studies, a number of genetic variants have been established robustly in the context of obesity, giving us fresh insights into the pathogenesis of the disease. This book provides a comprehensive overview of efforts aimed at uncovering genetic variants associated

with obesity, which have been particularly successful in the past 5 years with the advent of genome-wide association studies (GWAS). The Genetics of Obesity covers this state of the art technology and its application to obesity in great detail. Topics include genetics of childhood obesity, genetics of syndromic obesity, copy number variants and extreme obesity, co-morbidities of obesity genetics, and functional follow-up of genetic variants.
