

Obesity Associated POMC Gene Polymorphism: Relation to Metabolic Profile and Eating Habits in Obese Egyptian Children

Thesis

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

قَالَ لَوْلَا

لَسَبَّكَ لَمْ يَلْمِ لَنَا
إِلَّا مَا عَلَّمْتَنَا إِنَّكَ أَنْتَ
الْعَلِيمُ الْعَظِيمُ

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List of Abbreviations

ACTH	: Adrenocorticotropic hormone
ADRB2	: Adrenergic receptor beta-2
AGRP	: Agouti-related peptide
ALT	: Alanine Aminotransferase
APOA2	: Apolipoprotein A-II
AR	: Adiposity rebound
β-END	: β-endorphin
BBS	: Bardet–Biedl syndrome
BED	: Binge eating disorder
BMI	: Body mass index
CART	: Cocaine and amphetamine-regulated transcript
CDC	: Centers for Disease Control and Prevention
CF	: Complementary foods
CLIP	: Corticotropin-like intermediate peptide
CNS	: Central nervous system
CRH	: Corticotrophin-releasing hormone
CVD	: Cardiovascular disease
DEXA	: Dual-energy X-ray absorptiometry
DNA	: Deoxyribonucleic acid
FDA	: Food and Drug Administration

List of Abbreviations

FISH	: Fluorescence in situ hybridization
GABA	: Gamma-aminobutyric acid) enhancer
GDM	: Gestational diabetes mellitus
GH	: Growth hormone
GLP-1	: Glucagon-like peptide-1
GNB3	: Guanine nucleotide binding protein beta polypeptide 3
GWA	: Genome-wide association
GWAS	: Genome-wide association study
HDL	: High density lipoproteins.
HOMA-IR	: Homeostasis model assessment for insulin resistance
HPA	: Hypothalamic–pituitary–adrenal
HPT	: Hypothalamic–pituitary–thyroid
IDF	: International Diabetes Federation Criteria
IDM	: Infant diabetic
IL	: Interleukin
IML	: Intermediolateral cell column
IOM	: Institute of medicine
IOTF	: International Obesity Task Force
IR	: Insulin resistance

List of Abbreviations

IRS	: Insulin receptor substrate
kb	: Kilobase
LDL	: Low density lipoprotein
LEP	: Leptin
LEPR	: Leptin receptor
LOC	: Loss of control
LPH	: Lipotropin lipotropic hormone
LPL	: Lipoprotein lipase
LPS	: Lipopolysaccharides
LRPAP1	: Low-density lipoprotein receptor-related protein associated protein
LV	: Left ventricle
MCR3	: Melanocortin-3 receptor
MCR4	: Melanocortin-4 receptor
Mod-OB	: Moderate obesity
mRNA	: Messenger ribonucleic acid
MS	: Metabolic syndrome
MSH	: Melanocyte-stimulating hormone
NAFLD	: Nonalcoholic fatty liver disease
NASH	: Nonalcoholic steatohepatitis
NPC1	: Niemann-Pick disease, type C1

List of Abbreviations

NPY	: Neuropeptide Y
OGTT	: Oral glucose tolerance test
OHS	: Obesity-hypoventilation syndrome
OSA	: Obstructive Sleep Apnea
OW	: Overweight
PC1/PC2	: Proconvertase
PCR	: Polymerase chain reaction
PEFR	: Peak expiratory flow rate
PLIN1	: Perilipin 1
POMC	: Preproopiomelanocortin
Pon3	: Paraoxonase 3
PPAR-γ	: Peroxisome proliferator-activated receptor gamma
PPARG	: Peroxisome proliferator-activated receptor- γ
PVN	: Paraventricular nucleus
PWS	: Prader-Willi syndrome
PYY	: Peptide YY
QOL	: Quality of life
SAGES	: Society of American Gastrointestinal Endoscopic Surgeons
SCFA	: Short chain fatty acids
SCFE	: Slipped capital femoral epiphysis
SDS	: Standard deviation score

List of Abbreviations

SES	: Socio-economic status
Sev-OB	: Severe obesity
SIM1	: Single-minded gene
T2DM	: Type 2 diabetes mellitus
TBC1D1	: TBC1 domain family member 1
TC	: Total cholesterol,
TNF α	: Tumor necrosis factors alpha
TRH	: Thyrotropin-releasing hormone
TV	: Television
UCP1	: Uncoupling protein-1
US	: United States
WC	: Waist circumference
WHO	: World Health Organization
WHR	: Waist hip ratio

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