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Nota di contenuto FATTY ACIDS AND LIPOTOXICITY IN OBESITY AND DIABETES; Contents;

Chair's introduction; Transcriptional control of energy homeostasis through the PGC1 coactivators; DISCUSSION; Human obesity and insulin resistance: lessons from experiments of nature; DISCUSSION; Lipid-induced metabolic dysfunction in skeletal muscle; DISCUSSION;

Stearoyl-CoA desaturase deficiency, hypercholesterolaemia, cholestasis and diabetes; DISCUSSION; The role of lipin 1 in adipogenesis and lipid metabolism; DISCUSSION; The role of the AMP-activated protein kinase

in the regulation of energy homeostasis; DISCUSSION

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mobilization pathways in yeast; DISCUSSION; Cide proteins and the development of obesity; DISCUSSION; General discussion I; Visualizing brown adipose tissue with FDG-PET

Adiponectin and adiponectin receptors in obesity-linked insulin resistanceDISCUSSION; Anti-inflammatory and antidiabetic roles of PPARy; DISCUSSION; Final Discussion; Nutrition, ageing and lipotoxicity; Contributor Index; Subject Index

Sommario/riassunto

The potential lipotoxic effect of accumulation of fatty acids in non-adipose tissues is thought to be a major component in the development of insulin resistance. Chronic exposure to high concentrations of free fatty acids in the blood affects pancreatic & cell function, insulin secretion and lipid synthesis in the liver, and storage in adipose tissue. Maintaining the normal levels of fatty acids requires coordinated regulation between the liver, adipose tissue and skeletal muscle. This book deals with the molecular aspects of fatty acid action in obesity and insulin resistance. The topics in