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49

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Oxidative stress, insulin resistance, dyslipidemia and type 2 diabetes mellitus

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36

Abstract

Oxidative stress is increased in metabolic syndrome and type 2 diabetes mellitus (T2DM) and this appears to underlie the development of cardiovascular disease, T2DM and diabetic complications. Increased oxidative stress appears to be a deleterious factor leading to insulin resistance, dyslipidemia, β -cell dysfunction, impaired glucose tolerance and ultimately leading to T2DM. Chronic oxidative stress, hyperglycemia and dyslipidemia are particularly dangerous for β cells from lowest levels of antioxidant, have high oxidative energy requirements, decrease the gene

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