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Name of Journal: *World Journal of Diabetes*

ESPS Manuscript NO: 14938

Columns: Minireview

Impact of gene<sup>1</sup>-gene, gene-environment and gene-nutrient interactions on determining<sup>6</sup> the role of single nucleotide polymorphisms of inflammatory cytokines in pathogenesis of type 2 diabetes mellitus

Amina Nadeem, Sadaf Mumtaz, Abdul Khaliq Naveed, Muhammad Aslam, Arif Siddiqui, Ghulam Mustafa Lodhi, Tausif Ahmad

### Abstract

Inflammation<sup>5</sup> plays a significant role in the etiology of Type 2 Diabetes Mellitus (T2DM).<sup>2</sup> The rise in the pro-inflammatory cytokines is the essential step in glucotoxicity and lipotoxicity induced mitochondrial injury, oxidative stress and beta cell apoptosis



Gene-gene, gene-environment, gene-nutrient interactions and single nucleotide polymorphisms of inflammatory cytokines



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