Commentary on Diabetes Mellitus Century

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Abstract

The molecular genetics of diabetes received extensive attention in recent years by many prominent investigators

that play a role in the various steps and pathways involved in glucose metabolism and the development.

Ke 's: Diabetes; Type 2 diabetes, glucose.

Intr luti n

e major advances in the molecular understanding of diabetes in relat or to the di erent types of diabetes in comparison to the previous understanding in this eld are brie y reviewed here. Despite the acc mulation of extensive data at the molecular and cellular levels, the media aism of diabetes development and complications are still not fully understanding the properties of the complications are still not fully understanding the complex of the ultimate objective to improve diagnoses, therapy and minimize the chance of chronic complications development.

A variety of growth factors and cytokines may be released from damag d endothelium, macrophages, and smooth muscle cells. Platele's may adhere to the site of macrophage attachment and release th omboxane and growth factors. Smooth muscle cells may prolife ate and migrate, accompanied by thrombus formation, vascular encroachment, and occlusion.

Di be es mellitus is rising to an alarming epidemic level. Early diagnosis of diabetes and prediabetes is essential using recommended

hemoglobin A1c criteria for di erent types except for gestational diabetes. Screening for diabetes especially in underdeveloped countries is essential to reduce late diagnosis. Diabetes development involves the interaction between genetic and non-genetic factors. Biomedical research continues to provide new insights in our understanding of the mechanism of diabetes development that is reviewed here. Recent studies may provide tools for the use of several genes as targets for risk assessment, therapeutic strategies and prediction of complication.

Diabetes mellitus is a group of metabolic diseases characterized by chronic hyperglycemia resulting from defects in insulin secretion, insulin action, or both. Metabolic abnormalities in carbohydrates, lipids, and proteins result from the importance of insulin as an anabolic hormone. Low levels of insulin to achieve adequate response and/or insulin resistance of target tissues, mainly skeletal muscles, adipose tissue, and to a lesser extent, liver, at the level of insulin receptors, Diabetes mellitus is the epidemic of the century and without e ective diagnostic methods at an early stage, diabetes will continue to rise. is review focuses on the types of diabetes and the e ective diagnostic methods and criteria to be used for diagnosis of diabetes and prediabetes Evidently, diabetes is a complex disease with a large pool of genes that are involved in its development. e precise identi cation.

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