Advances in the Diagnosis and Pathogenesis of Diabetes

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Message from the Guest Editors

Diabetes Mellitus is a metabolic disease whose prevalence is on the rise worldwide. It includes type 1, type 2, and gestational diabetes and some rare forms, the precursory condition of this disease being pre-diabetes. Both pre-diabetes and diabetes are most frequently diagnosed by analyzing glucose levels, through fasting plasma glucose test and oral glucose tolerance test however, these methods do not distinguish between type 1 and 2 diabetes.

Other minimally invasive approaches include breath analysis, SwEatch, the glucose-sensing patch, and eyeglass biosensor to name a few. As such, novel diagnostic methods are necessary to identify and monitor various types of modifications before disease onset. Progress in selective biomarker signatures detection could support the prompt identification and classification of diabetic conditions and treatments, to prevent and reverse pre-diabetes.

This special issue aims to offer an update on the current knowledge of diagnostic methods of diabetes, complications of diabetes, but also methods of monitoring treatment effectiveness.

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Special Issue

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Message from the Editor-in-Chief

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