

عنوان مقاله:

The Possible Role of Long Non coding RNA as Novel Player in Type 2 Diabetes

محل انتشار:

سومین کنگره بین المللی و پانزدهمین کنگره ملی ژنتیک ایران (سال: 1397)

تعداد صفحات اصل مقاله: 1

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خلاصه مقاله:

Type 2 diabetes mellitus (T2DM) is a chronic disease with increasing rate of prevalence in the world that causes substantial public health and economic burden. Although more than 20 genetic susceptibility loci have been reported for type 2 diabetes (T2D), most reported variants have small to moderate effects and account for only a small proportion of the heritability of T2D, suggesting that the majority of inter-person genetic variation in this disease remains to be determined, So finding genetic variants plays an important role and provides a lot of data. Since non coding region is likely to have a significant effect on pathogenicity and susceptibility of diabetic and cardiovascular diseases, then it is useful to study the involved lncRNA.Materials and methods: Analysis of RNA-Seq data has revealed there are three lncRNAs (PVT1, H19, CDKN2B-AS1) that are associated with diabetes. Among these lncRNAs, PVT1 was selected and assessment its functional and regulatory role was done by bioinformatics.Conclusion: PVT1 bioinformatics analysis has shown there is association between variants (rs2720709, A> G) in the plasmacytoma variant translocation 1 gene (PVT1) and end-stage renal disease (ESRD) attributed to both type 1 and type 2 diabetes and the SNP has key role in both pathogenicity and gene regulation. PVT1 fulfills its .role by modulating the function of some transcription factors such as c-Myc, P53, YY1

كلمات كليدى:

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