

### عنوان مقاله:

The comparison of interactions between IncRNAs MEGr and Inc-EFNBr-1 with Par

# محل انتشار:

چهارمین کنگره بین المللی و شانزدهمین کنگره ملی ژنتیک (سال: 1399)

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#### خلاصه مقاله:

Background and Aim: Par tumor suppressor protein plays a crucial role in the regulation of the cell cycle. Previous studies suggested that multiple long noncoding RNAs (IncRNAs) regulate the Par pathway. Maternally expressed gene " (MEG") and Inc-EFNB"-1 are two IncRNA that could interact with Pa" and regulate pa" target gene expression. Although the interaction of these IncRNAs with Par is well established, their interaction mode remains unclear. The present study aims to compare the interaction of MEGT and Inc-EFNBT-1 with Pat using docking approaches.Methods: The structure of PAT was downloaded from the protein data bank (PDB). The RNAalifold webserver was used to obtain YD structure of MEGr and Inc-EFNBr-1 from their sequences. For converting YD to PD structures, the RNAComposer webserver was used. Finally, the docking process of IncRNAs with Par were done by HDOCK Server.Results: The docking score energies of MEGT and Inc-EFNBT-1 were -TGY and -TFY, respectively.Conclusion: MEG٣ has a more stable interaction than Inc-EFNB٣-1 with P۵٣. Therefore, it is predicted that MEGT can perform its regulatory roles better in comparison to Inc-EFNBT-1. We suggest supplementary studies .like expression analysis to characterize their probable interferences

**کلمات کلیدی:** P۵۳, IncRNAs, MEG۳, Inc-EFNB۳-۱

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