

Title: PIWI-piRNA Dynamics in Neurons

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The PIWI- interacting RNA (piRNA) regulates transposons expression in mammalian germline and somatic cells. Mechanically, PIWI-piRNA pathways take a long stand in maintaining speciation by allowing reproduction and adaptation of population to new mobile elements but is being least explored in mammalian brain. Additionally, LINE 1 elements mainly present in neurons of brain are known to be regulated by PIWI/piRNA and show potential role in synaptic plasticity and memory storage. This proclamation provides a clue that PIWI-piRNA plays an epigenetic role in neurogenesis and neuronal disorders. Here we discuss recent advances in PIWI-piRNA mechanism and their epigenetic regulation during early stages of brain development.

Biography

Prof. Dr. Garg has completed his Ph.D. at the age of 24 years in Biochemistry from Indore University and he also studied at University of Manchester, Institute of Science and Technology. He is ediotr in chief of Research Journal of Biotechnology and editor of various journals. He is founder director of World Researchers Associations, a no-profit organisation working for promotion of research and environment. More details can be accessed at link : https://www.worldresearchersassociations.com/patron.aspx

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