Special Issue

Non-coding RNAs in Alzheimer's Disease

Message from the Guest Editor

Alzheimer's disease (AD) was until recently perceived as a neuron-centric disorder with linearly evolving pathology. Novel molecular and genetic insights have challenged the unidirectional linearity of the pathogenic cascade in AD and underscored the significance of intertwined complex cellular pathways, gene networks, and feed-forward regulatory loops that may differentially impact distinct pathogenic endophenotypes and cellular phases of the disease. Mapping the mechanistic heterogeneity and multifactorial nature of AD is a key challenge, given the current lack of effective disease-modifying therapies. The emerging complexity of the transcriptional landscape poses great challenges to our conventional preconceptions of how the genome regulates brain function and dysfunction. Non-protein-coding RNAs (ncRNAs) confer a high level of intricate and dynamic regulation of various molecular processes in the central nervous system and have been widely implicated in Alzheimer's disease pathophysiology. Understanding these events may help to develop novel diagnostic and therapeutic strategies.

Guest Editor

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Editor-in-Chief

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