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Noncoding RNAs in Regulatory Circuitries Underlying Neuronal Differentiation, Function and Disease

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Message from the Guest Editors

Dear Colleagues,

Non-coding RNAs (ncRNAs) play a role in numerous biological processes like cell proliferation, differentiation, apoptosis, and metabolism as well as stem cell self-renewal, and formation of synapses, through the suppression or activation of gene expression. Interestingly, ncRNAs are particularly abundant in the central nervous system and alterations in their expression pattern have been linked to neuronal differentiation, function and may lead to brain aging and neurodegenerative diseases. ncRNAs can modulate signaling pathways known to play a role in the pathophysiology of progressive neuronal dysfunction including Alzheimer's disease, Parkinson's disease, amyotrophic lateral sclerosis, multiple sclerosis. Therefore, they pose as promising biomarkers and treatment for the vast majority of neurodegenerative disorders. However, there is limited knowledge of ncRNAs, and their impact on pathogenesis of neuronal degeneration. All research related to the described area, including systematic reviews, original research, review articles are highly welcomed for submission.

Prof. Dr. Dagmara Mirowska-Guzel

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Message from the Editor-in-Chief

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