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Pathogenesis and Treatment of Autism Spectrum Disorders

Guest Editor:

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Message from the Guest Editor

There are most interesting and important findings on pathophysiology of autism related to pharmacological care: (1) α-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid receptors can be a potential target for the treatment of social behavior deficits in autism spectrum disorders (ASD); (2) The Rho family GTPases-activating proteins transduce the upstream signals to downstream effectors, thus regulating diverse cellular processes; (3) The pharmaceutical value of gut peptide hormones in alleviating autism-associated behavioral syndromes will be discussed; (4) Perturbation of these processes of mRNA targeting and local protein synthesis in stem cell-derived neurons may synapse development and functions related to cognitive deficits in ASD.

The investigation of links between the ratio of omega-3/omega-6 PUFAs and neuronal signaling is a research priority in ASD. Increased plasma DHA/arachidonic acid (AA) ratios may induce low plasma levels of ceruloplasmin. Reduced plasma ceruloplasmin levels may diminish the protective capacity against brain damage, contributing to the pathophysiology of social symptoms in individuals with ASD.

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Message from the Editor-in-Chief

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