



Protein Kinases and Phosphatases in Neurodevelopmental Disorders

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Message from the Guest Editor

Protein kinases and phosphatases are two key enzymes that phosphorylate and dephosphorylate proteins, respectively. In general, a suitable balance between the actions of protein kinases and phosphatases is essential in regulating a multitude of cellular signaling processes in neuronal development. As a result, an imbalance between the actions of kinases and phosphatases may lead to hyper- or hypophosphorylation of proteins and alter the downstream cellular signaling cascades that regulate neuronal development critical for learning, memory, behavior, and social interaction. Neurodevelopmental disorders such as autism spectrum disorder (ASD), intellectual disability, Rett syndrome, and Angelman syndrome have been associated with deregulation of cellular signaling caused by impaired activity of kinases and/or phosphatases. This Special Issue will cover a selection of original articles and reviews focusing on several key neurodevelopmental disorders mediated by deregulation of the activity of kinases or phosphatases, where the underlying mechanisms of dysregulation will be discussed.





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Message from the Editor-in-Chief

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