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Cellular and Molecular Mechanisms in Neurodevelopmental Disorders and Brain Tumors

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Message from the Guest Editors

The correct morphofunctional shaping and function of the central nervous system (CNS) requires a continuous interaction between intrinsic (genes/molecules expressed within the tissue) and extrinsic (e.g., neural activity) factors at all developmental stages including the adulthoods. Any significant deviation from the normal CNS functions due to social deprivation, environmental factors, genetic and metabolic diseases, immune disorders, infectious diseases or nutritional factors results in abnormal neuronal architecture or connectivity. In this scenario, stem cell selfrenewal and differentiation play an important role not only in normal neurodevelopment, but also in brain tumours' establishment. In this Research Topic, we aim at providing a collection of high-impact papers dissecting which cellular and molecular mechanisms are involved into the onset of tumour and neurodevelopmental disorders. Accordingly, Original Research or Review articles describing which signalling or specific treatment influence physiologic functions such as neuronal development and CNS tumours will be considered













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Message from the Editor-in-Chief

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