

Special Issue

Molecular Mechanisms of Early-Life Environmental Effects on Brain Development

Message from the Guest Editor

Early life represents a critical window during which environmental factors exert profound and lasting influences on brain development and function. This Special Issue, titled “Molecular Mechanisms of Early-Life Environmental Effects on Brain Development”, will showcase studies that explore the molecular and cellular pathways through which the early-life environment influences the development of the nervous system. We define “early-life environmental effects” broadly, encompassing prenatal and early postnatal exposures, including chemical and environmental toxicants, maternal health and physiology, patterns of maternal care, psychosocial and physiological stressors, physical activity, and nutrition. We invite submissions that investigate the mechanisms underlying these influences, including, but not limited to, epigenetic regulation, gene–environment interactions, neuroimmune interactions, endocrine disruption, cellular stress and dysfunction, synaptic development, and circuit formation. We also welcome a range of article types, including original research articles, review articles, systematic reviews, short communications, and perspectives/hypotheses articles.

Guest Editor

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Message from the Editor-in-Chief

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