



## Advanced Research on Dopaminergic Neurons and Their Role in Depression

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### Message from the Guest Editor

Major Depressive Disorder (depression) is a multifactorial, biologically and symptomatically heterogeneous condition. One of the longest-standing ideas is the “monoamine hypothesis” stating that one or more dysfunctional monoamine systems are key contributors in the development of this psychiatric disorder. There is growing interest in dopamine’s role in clinical depression, especially, in the way it works as a modulator of the brain’s reward systems. Furthermore, there is pre-clinical evidence that A10 dopaminergic neurons projecting from the midbrain ventral tegmental area to the nucleus accumbens and dorsolateral prefrontal cortical areas over several routes are associated with motivation, exploration, appetitive learning, reward-driven behaviours. The reward systems might also be implicated in aversive stimuli, a recent notion which needs to be further explored. This Special Issue of Brain Sciences aims to bring together some of the current ideas on the function or dysfunction of dopamine and dopaminergic transmission in depression, by examining the most recent evidence from advanced clinical and experimental research.





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## Message from the Editor-in-Chief

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