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Dopamine Signaling: From Synapses to Behavior

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Deadline for manuscript
submissions:

closed (10 March 2022)

Message from the Guest Editor

Dear Colleagues,

Dopamine (DA) is a catecholamine which is instrumental for learning and motivation. Most recent studies have unraveled new mechanisms about DA signaling such as co-release of neurotransmitters by DA terminals and local control of DA release by receptors located on synaptic terminals independently of dopaminergic neuron firing activity. In addition, the use of genetically-encoded biosensors and subcellular approaches tends toward a re-evaluation of the anatomical organization of DA release sites and suggests a more rapid DA coding than originally described. These new findings profoundly alter our current knowledge of DA functions both in healthy and diseased conditions.

The aim of this Special Issue is to present articles that investigate molecular, synaptic, and circuit mechanisms underlying DA signaling in order to better understand how DA sculpts neuronal activity and DA-dependent behaviors.



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Special Issue



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Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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