Special Issue

Dopamine Signaling: From Synapses to Behavior

Message from the Guest Editor

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.

Guest Editor

Dr. Jérôme Baufreton
Institut des Maladies Neurodégénératives, Université de Bordeaux, Bordeaux, France

Deadline for manuscript submissions

closed (10 March 2022)

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/si/33593

Cells
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
cells@mdpi.com

mdpi.com/journal/cells

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/journal/cells

MDPI

About the Journal

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.

Editors-in-Chief

Dr. Alexander E. Kalyuzhny
Dental Basic Sciences, University of Minnesota, 308 Harvard St. SE, Minneapolis, MN 55455, USA

Prof. Dr. Cord Brakebusch
Biotech Research & Innovation Centre, The University of Copenhagen, Copenhagen, Denmark

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Cell Biology) / CiteScore - Q1 (General Biochemistry, Genetics and Molecular Biology)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).