Special Issue

Molecular Mechanisms of Autism Spectrum Disorder

Message from the Guest Editors

Autism spectrum disorder (ASD) is a group of neurodevelopmental disorders characterized by social interaction and communication deficits, repetitive, restricted behaviors, and variable co-morbid conditions. The etiological heterogeneity of ASD encompasses complex interactions of genetic, immunological, and environmental factors that result in alterations to brain function and structure, which influence the onset of these conditions. The emergence of ASD is influenced by several molecular mechanisms that are the focus of diagnostic and intervention strategies; however, our understanding of these mechanisms remains incomplete. Such heterogeneous etiological factors contribute greatly to the development, prognosis, and variability of autistic traits. This Special Issue aims to assemble original research and literature reviews that address the latest developments in the molecular mechanisms of autism spectrum disorder. We hope that contributions to this Special Issue will have a significant impact on ASD research in terms of understanding its molecular etiology and developing novel therapeutic strategies.

Guest Editors

Dr. Tanya Gandhi

Department of Comparative Biomedical Sciences, School of Veterinary Medicine, Louisiana State University, Baton Rouge, LA 70806, USA

Dr. Charles Lee

School of Veterinary Medicine, Baton Rouge, LA, USA

Deadline for manuscript submissions

20 October 2025

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/si/199801

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

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).