Special Issue

Cholinergic Signaling in Brain Disease

Message from the Guest Editor

Acetylcholine is amongst the most primitive of chemical transmitters for cell-to-cell communication in both plants and animals. By binding to its cognate cell-surface metabotropic and ionotropic receptors, acetylcholine (cholinergic) has evolved to regulate, through its signaling, vital physiological processes in mammals including cognition, endocrine and vascular control, and reproduction. Disruptions of cholinergic production and signaling are now recognized features in devasting and often costly human diseases and conditions. This Special Issue will provide a timely collection of research on and insights into the mechanisms of cholinergic signaling and regulation within cells. Of particular interest are processes implicated in the pathophysiology of Alzheimer's disease, addiction, cancer, immunity, pain, vascular and cardiac function, neurodevelopment, and degeneration. Additionally, insights and findings in mechanistic pathways of epigenetic modification and gene-environment interaction are highly welcome, as are discoveries on therapeutic interventions through cholinergic targeting.

Guest Editor

Dr. Nadine Kabbani
School of Systems Biology, George Mason University, Fairfax, VA 22030, USA

Deadline for manuscript submissions

closed (1 December 2021)

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

mdpi.com/journal/cells

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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.

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

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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).