

Special Issue

Emerging Roles of Multifunctional Aquaporin Channels

Message from the Guest Editor

Aquaporins are multifunctional proteins that serve essential biological functions in bacteria, protista, plants, and animals. More than simple water channels, aquaporins display an array of properties that still remain to be fully characterized. The expanding roster of permeable substrates includes not only water and glycerol but also urea, ammonia, nitric oxide, hydrogen peroxide, ions, gases, and other molecules. Regulation via signaling pathways and partnerships with other proteins add further complexity. The emerging roles of these channels in mediating diverse functions have catalyzed important areas of current research interest in topics spanning a broad array of processes, including fluid homeostasis, signal transduction, sensation, development, metabolism, barrier function, motility, pathology, and others, with likely many additional roles yet to be discovered.

Guest Editor

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Deadline for manuscript submissions

closed (31 March 2024)



Biomedicines

an Open Access Journal
by MDPI

Impact Factor 4.5
CiteScore 7.8
Indexed in PubMed



mdpi.com/si/175960

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Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

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