



## New Insights into Aquaporins

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Deadline for manuscript  
submissions:

**30 June 2024**

### Message from the Guest Editors

Dear Colleagues,

Aquaporins (AQPs) are involved in many biological functions, including transepithelial fluid transport, cell migration and proliferation, brain oedema and neuroexcitation, adipocyte metabolism and epidermal water retention. In the plant kingdom, aquaporins are key proteins providing strict regulation of water uptake and transport across cellular membranes and tissues at the whole-plant level, regulating plant growth and development. In the last decade, aquaporins have become a hot area of research in molecular cell biology, biochemistry and biophysics, with increasing physiological and medical implications. In addition, human diseases caused by aquaporin dysfunction have unveiled these proteins' potential as drug targets and opened new perspectives with which to untangle mechanisms.

This Special Issue aims to provide an updated scientific view of the aquaporin field, including structure–function relationships, physiological and chemical regulation, implications in disease and potential as drug targets, creating opportunities for drug development and novel therapies. Authors are invited to submit original research and review papers.





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## Message from the Editor-in-Chief

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