

Special Issue

Epithelial Ion Transport in Health and Disease

Message from the Guest Editors

The transport of ions by epithelial cells is essential for a wide range of physiologically important processes, such as acid–base and fluid balance, defense against pathogens, the digestion and absorption of nutrients, efficient sensory transduction, and tissue differentiation as well as repair. Dysfunction in epithelial ion transport underlies many diseases, such as secretory diarrheas, hypertension, COPD, cystic fibrosis, ARDS, pancreatitis, and hydrocephalus, to name just a few. This Special Issue will bring together original research and review articles related to the functional and pathological roles of ion transport in epithelial tissues in health and disease. It will highlight new discoveries, approaches, and technical developments in epithelial research. The main feature of this Special Issue is to highlight emerging new roles played by ion transporters and channels in epithelia, as well as how this information is being harnessed to develop new therapeutic strategies for important human diseases.

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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