

Special Issue

Chloride Channels and Transporters in Health and Disease

Message from the Guest Editors

Chloride is the most abundant anion in animal cells and chloride channels have fundamental role in physiology and disease. Chloride channels are indeed involved in a variety of biological functions, including trans-epithelial fluid secretion, cell volume regulation, cellular signaling, and vesicular trafficking and acidification. Different types of chloride channels have been identified, and many of them are implicated in severe human diseases. For example, CFTR (a cAMP-dependent anion channel) and CLC-1 (a voltage-gated chloride channel), which are the first two human chloride channels that have been cloned, are involved, as causative genes, in cystic fibrosis and myotonia congenita, respectively. This Special Issue calls for original research, reviews, and perspectives that address the current knowledge in the field of chloride channels and transporters involved in human physiology and disease.

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