Special Issue

Molecular Pathology and Therapy on Cystic Fibrosis and CFTR-Related Diseases

Message from the Guest Editor

Cystic fibrosis (CF) is caused by the congenital loss of function of CF transmembrane conductance regulator (CFTR), a cAMP-regulated Cl- channel expressing at the plasma membrane of epithelial cells. Dysregulated CFTR function caused by genetic and/or environmental stresses could participate in the pathogenesis of diseases including chronic obstructive pulmonary disease (COPD), asthma, and bronchiectasis. Thus, understanding the molecular mechanism of dysregulated CFTR function can help us to develop novel therapeutic approaches for the CFTR-related diseases associated with CFTR mutations and polymorphisms. Moreover, in addition to traditional small-molecule CFTR modulators, new chemical modalities including oligonucleotides, molecular glues, and gene therapy may provide novel therapeutic approaches for CFTR-related diseases. This Special Issue on "Molecular Pathology and Therapy on Cystic Fibrosis and CFTR-Related Diseases" will gather reviews and original articles focused on the molecular pathology of CFTR-related diseases and novel therapeutic approaches at basic, translational and clinical levels in the field.

Guest Editor

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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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