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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