

## Special Issue

# New Research Insights in Cystic Fibrosis and CFTR-Related Diseases

### Message from the Guest Editor

Cystic fibrosis (CF) is caused by the congenital loss of function of the CF transmembrane conductance regulator (CFTR), a cAMP-regulated anion channel expressed within the plasma membrane of epithelial cells. Dysregulated CFTR function caused by genetic and/or environmental stresses can contribute to the pathogenesis of various diseases, including chronic obstructive pulmonary disease (COPD) and bronchiectasis. The landscape of CF has changed significantly over the past 30 years since the identification of the CFTR gene and the advent of CFTR-modulating drugs. Current research aims to improve our understanding of disease pathogenesis in the era of CFTR modulation. This includes new insights into the direct and indirect influences of CFTR modulation on the airway milieu, including resident pathogens, inflammation, and inflammatory cell function. This Special Issue will gather reviews and original articles that provide novel insights into the immune landscape of respiratory disease, as well as report on groundbreaking therapeutic approaches at the basic, translational, and clinical levels.

### Guest Editor

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### Message from the Editor-in-Chief

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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