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Phenotypic Variability of Cystic Fibrosis: New Challenges

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Deadline for manuscript submissions:
closed (28 February 2021)

Message from the Guest Editors

Cystic Fibrosis (CF) is a severe, chronic and progressive disease that affects approximately 70,000 people worldwide and around 1,000 new cases are diagnosed each year. CF is a paradigm of how a monogenic disease can be associated with an extraordinary large phenotypic variability that results from heritable (genetic) and non-heritable (environmental) factors. Together CFTR mutations, polymorphisms at modifier genes, the epigenome and interactions with the environment generate the unique phenotype of each patient. The complex relationship between all these factors is not clearly elucidated.

In this Special Issue, we welcome reviews and original articles addressing molecular, cellular and physiological mechanisms responsible for the phenotypic variability seen in PWCF. We are interested in genomic, transcriptomic, epigenomic, proteomic, metabolomic analyses, not excluding studies that focus on specific genes, proteins or pathways. We also encourage the publication of articles proposing microbiota manipulation and host directed therapies.

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Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

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