Special Issue

CFD for Design and Optimization of Biopharmaceutical Processes

Message from the Guest Editor

The fast-growing literature on the use of computational fluid dynamics (CFD) for process design and scale-up reflects the rapid growth of using this tool in the field of biopharmaceuticals. CFD enables scientists to generate a digital copy of the process and can potentially capture the interactions between biological and transport phenomena and the associated non-linearities across reactor scales. These in silico tools can provide new insights into process attributes, reduce the number of experiments, increase process robustness, reduce risks associated with scale-up, and, therefore, result in the faster and cheaper production of therapeutics. This Special Issue will focus on recent advances in the application of CFD for the design and optimization of upstream, downstream, filling, and finishing unit operations in biopharmaceutical processes.

Guest Editor

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Editor-in-Chief

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