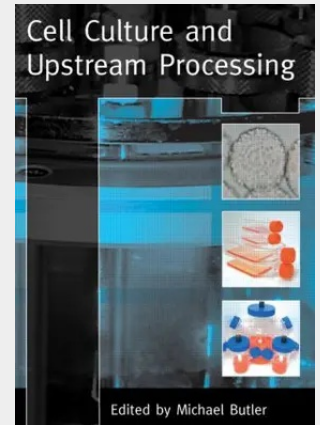


Cell Culture and Upstream Processing

Upstream processing refers to the production of proteins by cells genetically engineered to contain the human gene which will express the protein of interest. The demand for large quantities of specific proteins is increasing the pressure to boost cell culture productivity, and optimizing bioreactor output has become a primary concern for most pharmaceutical companies. Each chapter in *Cell Culture and Upstream Processing* is taken from presentations at the highly acclaimed IBC conferences as well as meetings of the European Society for Animal Cell Technology (ESACT) and Protein Expression in Animal Cells (PEACe) and describes how to improve yield and optimize the cell culture production process for biopharmaceuticals, by focusing on safety, quality, economics and operability and productivity issues. *Cell Culture and Upstream Processing* will appeal to a wide scientific audience, both professional practitioners of animal cell technology as well as students of biochemical engineering or biotechnology in graduate or high level undergraduate courses at university.


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