

Genomics and systems biology of mammalian cell culture

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Abstrak

This book is about transcriptome analysis, transcriptome data analysis for cell culture processes, modeling metabolic networks for mammalian cell systems : general considerations, modeling strategies, and available tools, metabolic flux analysis in systems biology of mammalian cells, advancing biopharmaceutical process development by system-level data analysis and integration of omics data, protein glycosylation and its impact on biotechnology, protein glycosylation control in mammalian cell culture : past precedents and contemporary prospects, modeling of Intraieellular transport and compartmentation, and genetic aspects of cell line development from a synthetic biology perspective.