

MicroRNAs as tools in biopharmaceutical production

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Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=20417291&lokasi=lokal>

Abstrak

Focused manuscript on the potential use/role of miRNAs in bioprocessing, specifically the production of complex proteins in mammalian cells. With that in mind I propose a draft list of topics/chapters along the following lines, intro on CHO/bioprocessing/engineering challenges to set scene, genomic organization, biogenesis and mode of action, Identifying miRNA targets, computational prediction, transcriptomics, proteomics, UTR analysis, etc., miRNA expression in Chinese hamster ovary cells, miRNAs as engineering targets: pathway manipulation to impact bioprocess phenotypes, miRNAs as biomarkers, detection methods : northern, PCR, hybridization arrays, next gen seq, manipulation of expression in cultured cells : transient/stable dysregulation, knockout.