



# MicroRNAs as Tools in Biopharmaceutical Production

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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 disregulation, Knockout.

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