

Engineering Cells for Biomedical Applications

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Abstract

As important biological entities and natural carriers for proteins and molecules, endogenous cells with low immunogenicity and toxicity have attracted considerable attention for biomedical applications and have achieved encouraging progress, especially as therapeutics and delivery carriers. The convergence of multiple disciplines has equipped cell engineering with control over their spatiotemporal distribution to enhance treatment efficacy and reduce side effects. In this talk, I will introduce our ongoing efforts in engineering endogenous cells for various biomedical applications with a particular focus on cancer immunotherapy.