

Active Modulation of Cells Using Designed Nanobiomaterials for Therapeutic Applications

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By controlling their physical and chemical properties, diverse materials can exhibit unique characteristics which have high potentials to overcome various limitations in current clinical approaches. Design and engineering of nanobiomaterials including diverse nanoparticles and three dimensional polymer scaffolds allow us to modulate cells and tissues on demand. These materials are used in diagnostics, drug delivery, cancer therapy, and tissue engineering. This presentation will cover some of the examples how we are able to control the living systems through designed nanobiomaterials for therapeutic application.