

Multilayer Nano-Films for Drug Delivery System

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In this presentation, we prepared the cell friendly platform by take full advantages of LbL assembly with evenly distributed drug loading by nano-sized layer assembly. The platforms are prepared by various materials including not only synthetic-, natural-polymers but also functional materials such as growth factors, cytokines which are resulting different film degradation profiles. In addition, we also introduced the functional objects into multilayer film, such as block copolymer micelle as a drug container, nanotubes for enhanced mechanical strength. The structures including functional objects could be very useful in achieving additional functions for various cell studies. These results lay a cornerstone for future studies to achieve the multi-functional platforms including programmed loading/release of drugs for therapeutic purposes.