Special Issue

Biomaterials-Based Drug and Gene Delivery Systems

Message from the Guest Editor

Over several decades, many drug and gene delivery systems based on diverse materials such as polymers, ceramics, and nanostructures have been developed for the improvement of bioavailability and pharmaceutical efficacy. Biomaterials (peptides, polysaccharides, nucleic acids, etc.) are usually biocompatible and possess their own inherent biological functionality (cell signal stimulation, targeting ability, anticancer activity, etc.), environmental (pH, temperature, salt, etc.) responsiveness, and chemical modifiability. Drugs and genes can be directly conjugated to the biomaterial-based delivery systems or loaded in biomaterial-based nanodelivery systems via hydrophobic or electrostatic interactions. Nowadays, novel biomaterials and their undiscovered properties are being continually discovered and, therefore, the application of biomaterials to drug and gene delivery systems would make breakthroughs in the development of efficient delivery systems by overcoming their current drawbacks.

Guest Editor

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