

Special Issue

Nanobiomaterials for Precision Medicinal Systems

Message from the Guest Editor

Traditional systems are being replaced with precision medical systems in order to achieve more accurate results with less side effects. Using interdisciplinary sciences such as nanobiotechnology, these systems can diagnose and treat diseases at a molecular level. The main strategies in precision medicine include the following: (1) spotting genetic/molecular defects using nano-bio detectors and sensors, (2) designing targeted nano-bio drugs, (3) designing smart drug delivery systems such as nano-bio vehicles, and (4) monitoring the disease and/or therapy procedures. Some biological detecting tools, such as sequencing, microarray, and CRISPR-based tools, utilize nano-systems in their structures. For smart treatments, some bio and small molecule drugs can be conjugated with nanomaterials and nano-vectors in order to achieve more stability with a better targeting capability. Some of these nano-vectors can carry imaging materials for real-time monitoring purposes.

Guest Editor

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