

Special Issue

Drug Delivery Systems for Combination Therapy

Message from the Guest Editors

The concept of combining multiple therapies, i.e., “Combination Therapy”, has arisen as a viable solution to overcome the major challenges in pharmacological treatments, as are dose-associated toxicity, multidrug resistance, nonspecific delivery, stability, pharmacokinetics, and cost of new drug discoveries. This treatment paradigm is not new and combines existing therapies to achieve a synergistic therapeutic effect by targeting different cellular pathways associated with a disease at safe therapeutic doses. However, with the assistance of nanotechnology, old combination therapy has taken a more successful path in recent years. Using nanotechnology, drug delivery systems for combination therapy can be designed not only to control multidrug release but to selectively target the diseased tissues, as well as to respond to an external or internal stimulus for detection, diagnosis or treatment. This issue captures recent advances in drug delivery systems for combination therapy, encompassing fundamental understanding, development and applications.

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