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Medical Nanocarriers

Guest Editor:

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Message from the Guest Editor

The approach of "one-size-fits-all" in modern medicine should be replaced by a new way for precise or personalized medicine. It is known that the use of drug delivery systems able to deliver active molecules to the desired site increases treatment success. A good drug delivery system must comply with at least two characteristics: the ability to penetrate through the body barriers and reach the desired location with minimal loss of the volume or activity while in circulation; and second, after reaching the site location they should be selective enough to affect mainly the desired cells. If these goals are achieved, there will be an increase in intracellular concentration of the drugs resulting with reduced dose-limit toxicity. Another important question is passive and active targeting; in the case of passive targeting, some drugs will not be efficiently diffused and may result in multiple-drug resistance. So, it is possible to overcome this issue by functionalizing the carriers. The development of a nanocarrier is an extremely complex project as it involves several crucial steps from size, dispersion, and ability to target specific cells.

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Message from the Editor-in-Chief

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