Special Issue

Polysaccharide-Based Nanoparticles for Theranostic Nanomedicine

Message from the Guest Editor

Due to the enhanced permeability and retention (EPR) effect, nanocarriers can be highly enriched in tumor sites, which is conducive to enhance the circulation time of drugs and enhance the stability of drugs, so they have become a powerful means to enhance the effect of tumor treatment and diagnosis. As a natural biomacromolecule, polysaccharide has good biocompatibility and biological function, and can realize active targeting. For example, hyaluronic acid has the function of specifically targeting CD44 receptor. Natural polysaccharides have become a good carrier for nano delivery systems because of their biocompatibility, biodegradability, low toxicity and unique physical and chemical properties such as hydrophilicity, positive charge and easy modification. Polysaccharide nanoparticles not only have the dual advantages of nanotechnology and polysaccharide, but also have the specificity of highly targeted drug delivery and molecular imaging in the application of theranostic nanomedicine. Polysaccharide based nanoparticles are increasingly used as platforms for simultaneous drug delivery and imaging, so they have become popular therapeutic nanoparticles.

Guest Editor

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Editor-in-Chief

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