Special Issue

Smart Polymeric Nanoparticle-Based Drug Delivery Systems

Message from the Guest Editor

Over the last five decades, the use of water-soluble polymers in rational drug design has rapidly evolved into valuable drug delivery strategies to enhance the safety, quality, and therapeutic efficacy of poorly soluble drugs. However, despite the extensive research successes and continuous product developments in polymer–protein conjugates, most polymer–drug therapeutics under intensive research efforts have not yet reached the market due to multi-faceted challenges including high toxicity, poor stability, low payload, erratic pharmacokinetics (PK), poor bioavailability profiles, etc. Therefore, this Special Issue is focused on the shared insights and foresights of novel rational polymer–drug design, smart drug delivery strategies, advanced process analytical technology, quality by design approaches, controlled drug release techniques, targeted drug delivery, *IV/IV* correlation studies, etc., for polymer therapeutics. It is envisioned that this Special Issue would proffer potential solution models to current and prospective challenges in the development of polymer therapeutics.

Guest Editor

Dr. Amos O. Abioye

College of Pharmacy and Health Sciences, Belmont University, Nashville, TN 37212, USA

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Message from the Editor-in-Chief

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Editor-in-Chief

Prof. Dr. Patrick J. Sinko
Department of Pharmaceutics, Ernest Mario School of Pharmacy, Rutgers University, Piscataway, NJ 08854, USA

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