

Special Issue

Nanoadjuvants for Drug Delivery and Immunotherapy

Message from the Guest Editors

Traditional adjuvants like aluminum salts and emulsions have been foundational in vaccinology. However, their conventional macro-formulations face several limitations, including poor targeting efficiency, inconsistent immunomodulatory effects, and potential systemic toxicity. Nanoadjuvants—encompassing lipid nanoparticles (LNPs), polymeric systems, and inorganic carriers (nano-aluminum)—are engineered to overcome these hurdles. These properties include enhanced bioavailability, precise tissue- and cell-specific targeting, and tunable immunostimulation, thereby revolutionizing both drug delivery and immunotherapy. This Special Issue of *Pharmaceutics* aims to compile high-quality original research, reviews, and perspective articles that advance nanoadjuvants science. Key focuses include novel nanoadjuvant synthesis and functionalization strategies, mechanistic studies on immunomodulation, in vitro and in vivo efficacy evaluations, and translational studies that bridge preclinical and clinical development. By integrating insights from academia and industry across pharmaceutics, materials science, and immunology, this issue will serve as a definitive resource for researchers.

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