

## Special Issue

# Vesicle-Based Drug Delivery Systems

### Message from the Guest Editors

Ensuring safe and efficient drug delivery remains a critical challenge in pharmaceutical development. Recent advances in vesicle engineering, including liposomes, niosomes, exosomes, extracellular vesicles, and polymersomes, have significantly enhanced drug delivery strategies. These systems improve therapeutic efficacy by protecting active pharmaceutical ingredients (APIs) from degradation, minimizing side effects, enabling targeted delivery to disease sites, and controlling circulation time and release kinetics. Precise synthesis strategies for design can help to overcome biological barriers when applied through different administration routes, and remain key challenges that must be addressed to optimize treatment outcomes. This Special Issue will highlight current advancements in vesicle-based platforms designed to improve formulation pharmacokinetics. We invite contributions that explore innovative approaches in vesicle design, drug loading, synthesis, isolation, targeting (both active and passive), and functionalization strategies to address these challenges in vesicle delivery.

### Guest Editors

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### Deadline for manuscript submissions

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