

## Special Issue

# Extracellular Vesicles and Bioinspired Nanovesicles as Next-Generation Drug-Delivery Systems

### Message from the Guest Editor

Developing nanocarriers such as liposomes, micelles, polymeric nanoparticles and hybrid nanoparticles for advanced drug delivery remains a persistent challenge because of limitations like targeting specificity, immunogenicity and poor biological compatibility. To overcome these limitations, progress in drug-delivery systems is needed in the field of nanomedicines. Originating from endosomal or plasma membrane pathways, EVs such as exosomes and microvesicles carry diverse bioactive molecules—including proteins, lipids and nucleic acids—that reflect their parent cells' molecular signatures. Their inherent stability, low immunogenicity and ability to cross biological barriers, especially the blood–brain barrier, make them strong candidates for precision drug delivery. Continued integration of synthetic biology, nanotechnology and bioengineering is expected to accelerate the translation of EVs and BNVs into clinically viable drug-delivery systems. As the field evolves, these bioinspired platforms may redefine the next generation of safe, efficient and personalized therapeutics.

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### Guest Editor

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