

## Special Issue

# Nano-Based Drug Delivery System: Recent Developments and Future Prospects

### Message from the Guest Editors

The rise of nanotechnology has resulted in a new focus on advanced techniques of drug delivery. In recent years, there has been a surge of interest in using nanotechnology to solve the issues with gene and drug delivery. Drug and gene delivery applications have prompted the substantial study of nanosystems with a wide range of compositions and biological features. Researchers have discovered a variety of compounds with intriguing biological features, but low bioavailability (owing to issues such as poor solubility, toxicities, rapid clearance, metabolic degradation, and the inability to pass the blood–brain and intestinal barriers). Therefore, nanocarriers may be the most effective method for achieving targeted drug delivery to a specific location over a prolonged period of time and at a predetermined dosage. Nanocarriers allow for controlled and prolonged medication release at the treatment site. This Special Issue's primary goal is to investigate the state of nanoparticles as drug delivery systems and elaborate their potential future scope.

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### Guest Editors

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