

## Special Issue

# Stem Cell as Tool for Drug Development

### Message from the Guest Editors

The key changes for drug discovery are the lack of adequate model systems and compound-screening tools. With recent advances in the culturing and differentiation of induced pluripotent stem cells (iPSCs), it is now possible to study human disease-specific cell types to identify disease mechanisms and to develop large-scale screens for drug discovery. One of the key challenges in developing effective drugs for neurodegenerative disorders is the lack of appropriate cellular models that accurately recapitulate the complexity of the human brain. This is where stem cells come into play. The use of stem cells in drug therapy for neurodegenerative disorders is important because it enables disease modeling, accelerates drug discovery, allows for personalized medicine approaches, provides insights into disease mechanisms, offers potential transplantation therapies, and ensures the safety of drug candidates. These advancements hold promise for the development of effective treatments that can slow disease progression, improve patient outcomes, and ultimately provide hope for individuals affected by neurodegenerative disorders.

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### Guest Editors

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