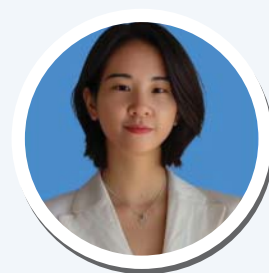


SPECIAL ISSUE CALL FOR PAPERS

# Cells to Systems: Molecular Mechanisms with Translational Value

**Guest Editor:**

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## About the Special Issue

This Special Issue focuses on advancing our understanding of molecular and cellular mechanisms that drive complex biological systems and their translational relevance across biomedical, agricultural, and environmental sciences. As modern research increasingly integrates multi-omics technologies, advanced imaging, and computational modeling, there is a growing need to connect mechanistic discoveries at the molecular level with system-level function and real-world application.

We invite high-quality contributions that bridge fundamental biological insights with translational outcomes. Studies that elucidate regulatory pathways, cellular communication networks, stress response mechanisms, and integrative systems biology approaches are particularly encouraged. By fostering interdisciplinary collaboration and mechanistic clarity, this Special Issue aims to highlight research that transforms foundational discoveries into meaningful scientific and practical impact.

**ARTICLE TYPES:** Original Research | Review Articles | Mini Reviews | Perspectives | Short Communications

## TOPICS OF INTEREST INCLUDE (but are not limited to):

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- Cell-cell communication and microenvironment interactions
- Systems biology and computational modeling
- Genomics, transcriptomics, proteomics, and metabolomics
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- Precision medicine and biomarker discovery
- Stem cells and regenerative biology
- Cancer molecular biology
- Immunological signaling and inflammation
- Translational bioengineering and therapeutic development
- Multi-omics integration in clinical research

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