

## Special Issue

# Molecular Perspectives in Tissue Engineering and Regenerative Medicine

### Message from the Guest Editor

This Special Issue is dedicated to exploring the molecular foundations of tissue engineering and regenerative medicine. It aims to highlight cutting-edge research that investigates the molecular mechanisms driving tissue formation, repair, and integration, with a focus on translating molecular insights into innovative therapeutic strategies. We welcome original research articles, reviews, and short communications that address, but are not limited to, the following topics:

- The molecular regulation of stem cell differentiation and behaviour;
- Growth factors, cytokines, and signalling pathways in tissue regeneration;
- Gene editing and molecular engineering approaches for regenerative applications;
- Extracellular matrix remodelling and cell-matrix interactions;
- Molecular crosstalk in engineered tissue environments;
- Immunomodulation at the molecular level in regenerative therapies;
- Molecular diagnostics and biomarkers for tissue regeneration outcomes;
- Omics-based approaches (genomics, proteomics, and metabolomics) in tissue engineering.

### Guest Editor

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### Deadline for manuscript submissions

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## International Journal of Molecular Sciences

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### Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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### Editor-in-Chief

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