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Mechanobiology

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Message from the Guest Editors

Dear Colleagues,

Over the past few decades, mechanobiology has emerged at the interface of biology, medicine, biophysics, and bioengineering. Mechanobiology refers to the study of how biological components such as cells, tissues, and organs can sense and respond to mechanical cues to regulate numerous biological processes, including development, differentiation, physiology, and diseases.

This Special Issue invites authors to contribute original scientific reports, research articles, communications, and reviews that cover the recent advances in all aspects of mechanobiology.

Topics include but are not limited to the following:

- Mechanobiology in stem cells;
- Mechanobiology in cancer;
- Mechanobiology in physiology;
- Mechanobiology in nucleus (e.g., nuclear mechanics, gene/genome regulation);
- Mechanobiology in tissue development and homeostasis;
- Mechanobiology in health and disease;
- Cellular mechanosensing, mechanotransduction, and mechanoresponse;
- Biomechanics;
- Innovative approaches for mechanobiology research.



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Message from the Editorial Board

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