Special Issue

Mechanobiology

Message from the Guest Editors

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/geneome regulation);
- Mechanobiology in tissue development and homeostasis;
- Mechanobiology in health and disease;
- Cellular mechanosensing, mechanotransduction, and mechanoresponse;
- Biomechanics;
- Innovative approaches for mechanobiology research.

Guest Editors

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Deadline for manuscript submissions

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A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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