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Mechanobiology in Health and Disease

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Message from the Guest Editor

Dear Colleagues,

In various psychological and pathological conditions, the role of mechanical cues, including mechanical forces, material properties of matrices and cells, geometrical confinement, fluid flow, etc., has gained increasing attention over the past three decades. Recent studies start to depict the connections between biomechanical factors and biochemical signals to elucidate the molecular machinery and mechanisms for cells to sense and respond to the complex biophysical microenvironment. This Special Issue aims to include a collection of original research and review articles that facilitate our understanding of biomechanical regulations on cell, tissue, and organ levels. We envision that these works will promote the dissemination of state-of-the-art mechanobiology research outcomes to the broad biology community, and stimulate exciting new ideas and directions.

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