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Nuclear Sensing of Mechanical Cues

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Deadline for manuscript
submissions:

closed (28 February 2021)

Message from the Guest Editors

Dear Colleagues,

Beyond its established role in cell biology, the nucleus is increasingly considered as a physical object that integrates mechanical cues. To adapt the cellular response, the nucleus senses mechanical stress and reacts through changes in its shape and mechanical properties, as well as gene expression. This has been shown in different model systems. Here we will focus on the pathways and actors involved in the process in the eukaryotic kingdom from yeast, plants to mammals, to bring to the scientific community the latest advances in the field of nuclear mechanotransduction concerning chromatin remodeling and gene expression.

This Special Issue, “Nuclear Sensing of Mechanical Cues”, will cover a selection of recent research topics and current review articles in the field of transcriptomics, genetics, and chromatin. Experimental and bioinformatics papers, up-to-date review articles, and commentaries are also welcome.



mdpi.com/si/47501

Special Issue



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Message from the Editor-in-Chief

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