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Mechanical Signaling in Plants

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Deadline for manuscript
submissions:

closed (15 November 2020)

Message from the Guest Editor

Dear Colleagues,

The primary purpose of this Special Issue of *Plants* is to provide a wide audience with the fun of seeing a wide range of plants' responses to mechanical stimuli. Recent studies have unraveled remarkable behaviors of plants sensing and responding to touch, bending, gravity, invasive microorganisms, and herbivorous insects, all of which affect plant growth and development. In addition, genetic and electrophysiological studies and state-of-the-art technics, such as bioimaging, have brought about the discovery of mechanosensitive channels as mechanosensors and astonishingly ingenious mechanisms of mechanical signaling in plants.

As our fundamental understanding of sensors and mediators of mechanical stimuli has deepened at the molecular level, we have realized that much also remains to be discovered. This Special Issue will highlight the roles of molecules, mechanisms, and systems involved in mechanosensing and mechanotransduction at the molecular, cellular, and tissue levels, as well as the whole plant level.

Prof. Dr. Hidetoshi Iida

Guest Editor



mdpi.com/si/27087

Special Issue



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Message from the Editor-in-Chief

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