

**MECHANICAL INTEGRATION OF PLANT CELLS AND
PLANTS: 9 (SIGNALING AND COMMUNICATION IN
PLANTS)**

Ruth Leighann Deruiter

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to be fascinated by the features that plants have evolved in order to grow . It has also been used to integrate the model of mechanosensing from the cell scale.

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Elastic materials are the simplest ones in terms of mechanical properties, because the degree of deformation is simply proportional to the applied stress. Wyatt, S. According to Lintilhac a ; Lynch and Lintilhac, if division planes coincide with shear-free planes, then the principal stress directions could be determined in a growing organ by continuously changing the direction of the normal vectors at division planes.

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Recent studies have shown that modest touching of leaves can cause changes in the biomass allocation strategy and alter the chemical composition of the emitted compounds [2122].

McCormack, E. On the basis of the currently available evidence, we hypothesize that tensegrity a structural principle first put forward by Buckminster Fuller and extensively developed and considered by D.

The intestinal stem cell. Ashutosh Tiwari. A constant bending moment was applied in the central part of the specimen. The mechanical aspects of plant responses to stresses are also presented.