



Plant Cell Wall Plasticity under Stress Situations

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Message from the Guest Editors

Plant cell wall is a structure mainly made of complex polysaccharides with multiple interactions. This structure allowed plants acquire the typical erect plant appearance and grow taller to ensure absorption of sunlight. Among other important functions like growth and defense, the transport of water and nutrients in plants would be impossible without cell wall.

Cell wall is composed of cellulose scaffold made of polysaccharides. The deposition of lignin into secondary cell walls increases cell wall resistance, producing growth cessation. All these polymers are crosslinked into the wall in process that can occur naturally or by the action of different enzymes. The control of synthesis of cell wall components or interactions among them gives the structure a high plasticity, which is a key factor in modulation of growth and defense responses under different stresses.

This Issue focuses on deepening knowledge of cell wall plasticity under different stresses, paying attention to main polymers and interactions. Contributions from different points of view are welcome, including biochemistry, plant physiology, breeding, environmental adaptation, molecular biology and different stresses.





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Message from the Editor-in-Chief

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