

Special Issue

Plant Hormones and Stresses

Message from the Guest Editor

Plant hormones represent key elements responsible for the translation of environmental signals into the necessary changes of plant growth and development. Despite growing information on phytohormone biosynthesis, metabolism, transport and signalling as well as cross-talk with other phytohormones or regulatory elements, the exact mechanisms involved in the fantastic adaptability of plants is still rather shallow. The ability of plants to withstand and adapt to broad spectrum of environments is now highlighted in the view of global climate change. Deciphering the mechanisms of phytohormone action controlling plant responses to abiotic (drought, heat, cold, light, salinity) and biotic (insects, bacteria, fungi, viruses, nematodes) stresses should provide new strategies for developing crops with enhanced plasticity against extreme growth conditions. The goal of this special issue is to gather new information on mechanisms of phytohormone action, molecular interactions, and cross-talk to other phytohormones, all that with special emphasis on phytohormone action in changing growth conditions and stress tolerance in plants.

Guest Editor

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