

Special Issue

Arbuscular Mycorrhiza Under Stress, 2nd Edition

Message from the Guest Editor

In natural environments, plant roots are usually associated with various soil microbes, such as arbuscular mycorrhizal (AM) fungi. AM fungi are ubiquitous soil fungi that form symbiotic associations with most terrestrial plants. The growth and functions of AM fungi depend on carbohydrates supplied by the plants; in return, the fungi assist the plants to acquire mineral nutrients (e.g., phosphorus) from soil. In addition, the beneficial effects of AM symbiosis have also been reported to improve plant tolerance to various environmental stresses, such as drought, salinity, and soil pollution. Recent studies have shown that plants grew better in poor or contaminated soils when their roots were colonized by AM fungi. It is clear that, for potential use of AM fungi to alleviate stress and remedy poor or contaminated soils, it is important to uncover the physiological and biochemical mechanisms of metabolism and detoxification in mycorrhizal symbiont under stress. This Special Issue will present original research progress on the topic of “Arbuscular Mycorrhizal under Stress”, expecting to promote the process of development in the tolerance mechanisms of AM symbiont under stress.

Guest Editor

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