Special Issue

Environmental Adaptation Mechanisms of Extremophytes

Message from the Guest Editors

Dear colleagues, The Earth is made up of various types of environments, some of which include extreme conditions such as high temperature, drought, freezing, high salinity, or high or low pH, which are unfavorable for most organisms to survive. However, some species have thrived in these extreme conditions through unique adaptation mechanisms. Extremophile plants ('extremopytes') are defined as plants that survive in extreme environments where other plants cannot live. These plants are represented by freezing tolerant Arctic or Antarctic plants or alpine plants, desiccation-tolerant desert plants, or salt-tolerant plants that grow in waters of high salinity, and these plants are typically exposed to complex abiotic stress factors. They have attracted the attention of researchers because of their unique physiological and ecological traits.

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