

Photoprotection switch resistant to low temperature



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Here, we highlight the importance of researching photoprotection in high-light tolerant organisms, which are expected to harbor the most efficient protective mechanisms.



Photoinhibition is the inhibition of photosynthesis by excessive light resulting in the reduction of plant growth. Exposure to additional stress factors during exposure to light increases the ...



Plants that are tolerant of extreme low temperatures, and plants that are tolerant of desiccation, face similar physiological challenges, as low temperatures often result in extracellular ice ...



Photoprotection of the human skin is achieved by extremely efficient internal conversion of DNA, proteins and melanin. Internal conversion is a photochemical process that converts the energy of the ...



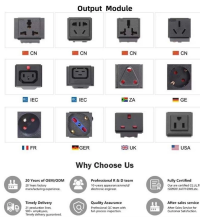
Here, we report that L-R/FR significantly prevents the overreduction of the entire intersystem electron transfer chain and the limitation of photosystem I (PSI) acceptor side, eventually alleviating the cold ...



We examined the photosynthetic properties, the activity of antioxidant enzymes and the amount of carotenoids of two maize genotypes characterized by different sensitivity to low temperature.



In the current world, photoinhibition of the PSI is a result of environmental stressing factors like low temperatures, drought, and high salinities. All these factors are known to limit the ...



Here, we identified the AUREO1c protein from the coastal diatom *Phaeodactylum tricornutum* as a crucial regulator of non-photochemical quenching (NPQ), a photoprotective ...



Abstract. The photosynthetic response of grapevine leaves (*Vitis vinifera* L. cv. Riesling) to low temperature was studied in the field and laboratory.



Abstract: Low temperature is an important environmental factor affecting the normal growth and development of plants. In order to adapt to the low temperature environment, plants have developed ...



In low light the amount of light energy absorbed and the amount utilized in photosynthesis are well matched. Absorption continues unabated as the light intensity increases but photosynthesis ...



Photoprotection against excess light via nonphotochemical quenching (NPQ) is indispensable for plant survival. However, slow NPQ relaxation under low light conditions can ...

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