Cold Hardiness in Plants

MOLECULAR GENETICS, CELL BIOLOGY AND PHYSIOLOGY

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This book is based on invited and selected offered papers from the 7th International Plant Cold Hardiness Seminar held at Hokkaido University, Japan, in July 2004. These papers present the latest research findings on plant freezing and chilling stress from major laboratories around the world. They focus on various aspects of molecular genetics and, in many cases, the utilization of transgenic plants to further our understanding of plant cold hardiness at the molecular level. Other papers include: vernalization genes in winter cereals; global analysis of gene networks to solve complex abiotic stress responses; control of growth and cold acclimation in silver birch; and the effect of plasma membrane-associated proteins on acquisition of freezing tolerance in *Arabidopsis thaliana*. This book will be of significant interest to researchers in plant physiology and plant development, ecology and genetics.

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Cover photographs ©S. Fujikawa. Top photograph: Freeze-fractured cortical parenchyma cells of mulberry (mons bombycis) harvested in midwinter season. Bottom photograph: Detail

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