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Soggetti	Plant anatomy Plant development Developmental biology Systems biology Plant ecology Climate change Plant Anatomy/Development Developmental Biology Systems Biology Plant Ecology Climate Change/Climate Change Impacts
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Molecular and Hormonal Regulation of Thermoinhibition of Seed Germination -- Regulation of Seed Dormancy Cycling in Seasonal Field Environments -- Role of the Circadian Clock in Cold Acclimation and Winter Dormancy in Perennial Plants -- Dormancy Behaviors and Underlying Regulatory Mechanisms: from Perspective of Pathways to Epigenetic Regulation -- Recent Advances and Molecular Control of Bud Dormancy in Pipfruits -- Flower Bud Dormancy in Prunus Species -- Dormancy Associated MADS-BOX Genes: a Review -- Functional

Characterization of Japanese Apricot (Prunus mume) DORMANCY-ASSOCIATED MADS-box1 (PmDAM1), a Paralog of PmDAM6, using Populus Transformants -- The Genetic Components Involved in Sensing Chilling Requirements in Apricot -- Prolonged Exposure of Grapevine Buds to Low Temperatures Increases Dormancy, Cold-hardiness and the Expression of Vv-AMYs Genes -- Bridging Dormancy Release and Apical Dominance in Potato Tuber -- Meta-analysis Identifies Potential Molecular Markers for Endodormancy in Crown Buds of Leafy Spurge; an Herbaceous Perennial -- A Comparison of Transcriptomes between Germinating Seeds and Growing Axillary Buds of Arabidopsis -- Dormancy Induction and Release in Buds and Seeds -- Comparing Genetic Mechanisms of Bud Chilling Fulfillment and Seed Cold Stratification: a Role for Peach (Prunus persica)? -- Chemical Release of Endodormancy in Potato Involves Multiple Mechanisms -- Exploring Alternative Bud break Enhancing Product in ‘Zesy003’ (Gold9) by Painting Application -- Assessment of Alternative Budbreak Enhancers for Commercial Kiwifruit Production of ‘Gold3’ -- Effect of BLUPRINS® application on bud release from dormancy in kiwifruit, cherry, and table grape.

Sommario/riassunto

Plant dormancy involves synchronization of environmental cues with developmental processes to ensure plant survival; however, negative impacts of plant dormancy include pre-harvest sprouting, non-uniform germination of crop and weed seeds, and fruit loss due to inappropriate bud break. Thus, our continued quest to disseminate information is important in moving our understanding of plant dormancy forward and to develop new ideas for improving food, feed, and fiber production and efficient weed control, particularly under global climate change. Proceeding from the 5th International Plant Dormancy Symposium, along with other invited chapters, provide an overview on our current understanding of how environmental factors impact cellular, molecular, and physiological processes involved in bud and seed dormancy. These articles include perspectives and/or reviews on recent achievements in the field of plant dormancy, which should stimulate new ideas and lines of investigation and highlight directions for future research.