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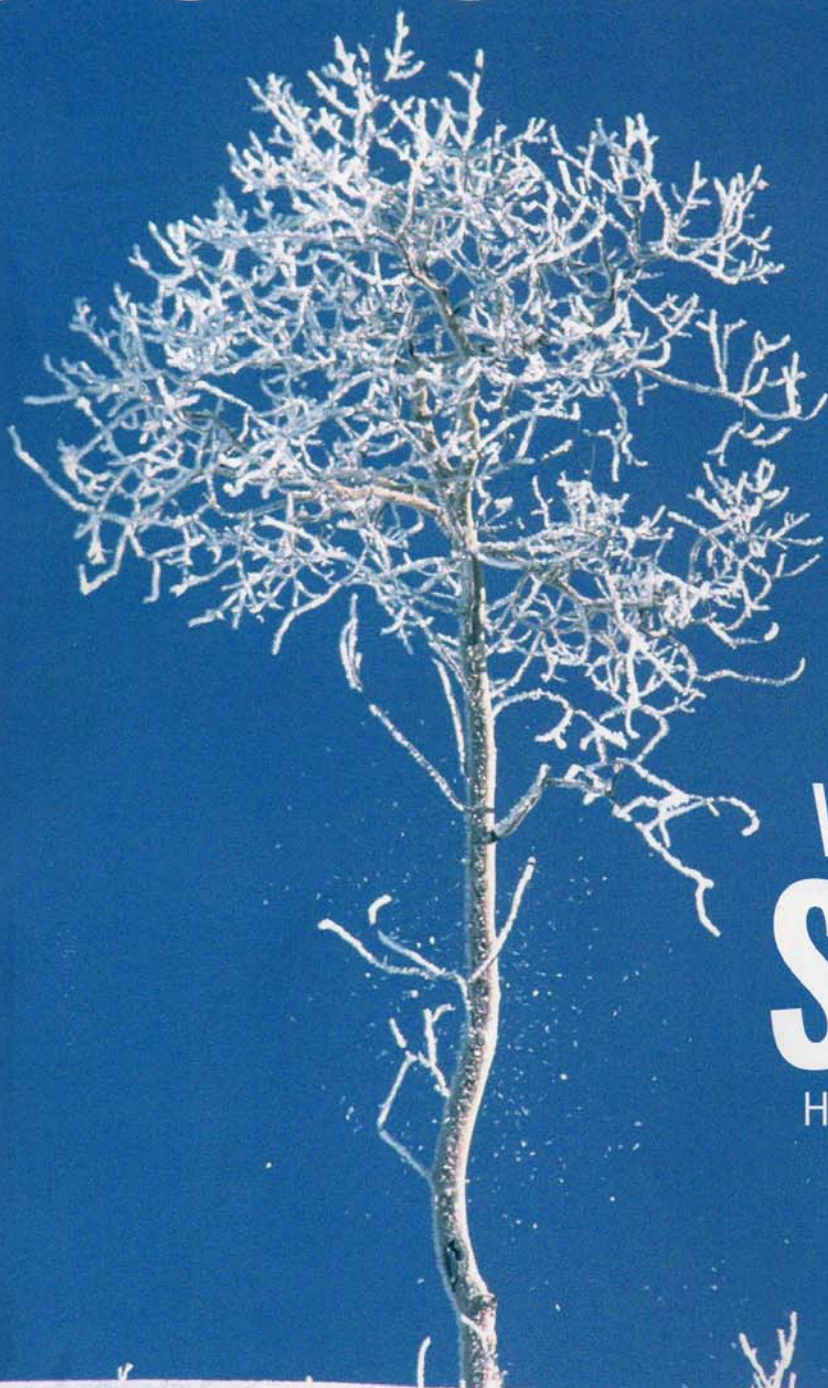
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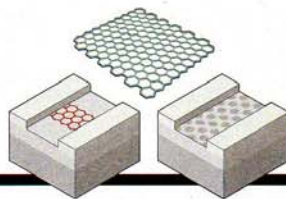
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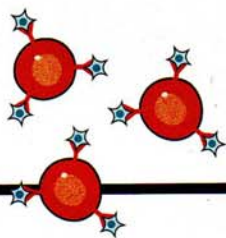
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ON THE COVER



Trees such as this aspen (Populus tremuloides) protect their meristem and leaf primordia from low temperatures during winter by establishing dormancy in apical buds. Reduction

in day length, heralding the advent of winter, induces dormancy. The molecular mechanism underlying photoperiodic control of tree dormancy has been revealed to involve plant hormone-mediated blockage of plasmodesmata, channels that connect neighboring cells. See page 212. Photo: Jeff Foott/Getty Images

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