

T H E
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ON THE COVER



Photosynthetic performance of poplar trees is strengthened after recovery from mild drought-heat stress scenarios simulating predicted future climate conditions of the temperate zones. Georgii et al. (pp. 346–367) have investigated the changes that transcriptomes of different organs and wood tissues undergo during stress and after recovery. While stress responses were similar between a periodic and a chronic stress scenario, post-recovery gene regulation was highly specific both for stress scenario and plant tissue. The few transcription factors with shared expression profiles across different tissues included two homologs of *Arabidopsis* HOMEODOMAIN-LEUCINE ZIPPER PROTEIN 7 (HB7), which has been associated with an increased photosynthesis rate. The photo shows poplar trees in a plantation and was taken by Jörg-Peter Schnitzler, Helmholtz Zentrum München.

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