Photo-morphogenesis in the dark
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Biodiversity: New species

The auxin influx carrier, OsAUX3, regulates rice root development by inhibiting negative regulators of photo-morphogenesis. The scanning electron microscopy image shows leaves developing from the shoot apical meristem of dark-grown seedlings treated with hydrogen peroxide.


Cover Caption: Without light the development of seedlings is arrested at cotyledon stage. In this issue Cheng et al (pp.1302-1317) report that hydrogen peroxide treatment activates the shoot apical meristem in the dark by inhibiting negative regulators of photo-morphogenesis. The scanning electron microscopy image shows leaves developing from the shoot apical meristem of dark-grown seedlings treated with hydrogen peroxide.

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Elevated carbon dioxide plus chronic warming causes dramatic increases in leaf angle in tomato, which correlates with reduced plant growth D. M. Jayawardena, S. A. Heckathorn, D. R. Bitia & J. K. Boldt

Effects of instantaneous and growing CO₂ levels and abscisic acid on stomatal and mesophyll conductances Y. Mizokami, K. Noguchi, M. Kojima, H. Sakakibara & I. Terashima

Diadinoxanthin de-epoxidation is an important factor in the short-term stabilization of diatom photosynthetic membranes exposed to different temperatures M. Bajko, M. Olchawa-Pajer, R. Gau, S. Schaller-Laudel, K. Serzalka & D. Latosz

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