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Functional Plant Biology

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Cover illustration: (Upper left) Overview of the ETH Field Phenotyping Platform (FIP) at ETH plant research station Lindau-Eschikon (WGS84: 47.449 N, 8.682 E) acquired by UAV: D. Constantin, M. Rehak and Y. Akhtman, EPFL ENAC TOPO (see Kirchgessner *et al*. pp. 154–168). Field, poles and winch houses are well visible. Image by Norbert Kirchgessner. (Upper right) The cultivation system of the phenotyping system, *GrowScreen-PaGe* for non-invasive, high throughput phenotyping of root systems (see Gioia *et al*. pp. 76–93). Image by Tania Gioia. (Lower left) Automatic methods to detect and quantify wheat ears in an RGB image (see Virlet *et al*. pp. 143–153). Image by Pouria Sadeghi-Tehran. (Lower right) Infrared thermal images of young sugar beet plants under regular water supply (control), drought stress (17 days) and during rewatering (8 days following 9 days of drought stress) (see Wedeking *et al*. pp. 119–133). The arrow indicates the measured leaf. Image by Anne-Katrin Mahlein.