Supplementary information

High-throughput precision phenotyping
of the oil content of single seeds

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Suppl. Figure 1. Photo of the HT platform with all modules (M1, M2, M3, M4a, M4b), the user terminal for platform control, and the video camera for remote supervision of the process.
Suppl. Figure 2. Cross section of the sample tube of module M3 to be inserted in the NMR instrument. For blowing out the seed from the inner tube, after its oil mass has been determined in the NMR instrument, air pressure and an air curtain is employed.
Suppl. Figure 3. Illustration of selection of seed. (a) 20 × 15 matrix tray with 300 seeds filled by module M4b is placed on the screen with LEDs; positions of the seeds meeting the selection criterion are automatically highlighted with green LEDs by control of the software. (b) After removal of a selected seed, a label is printed for identification and documentation, containing important data such as its origin, pedigree and oil content.