

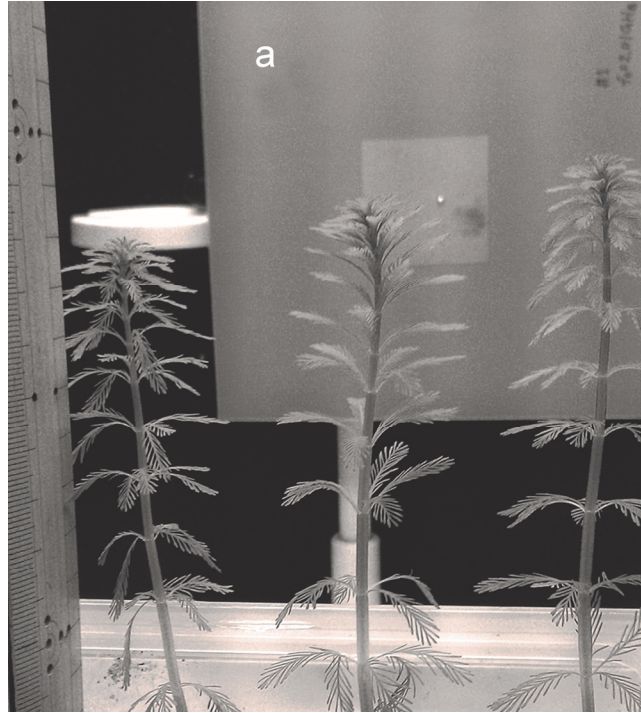


Fig. 1 Suppl. Three *M. aquaticum* plants growing vertically along an edge of the tank (*a* - 2 GHz microstrip antenna).

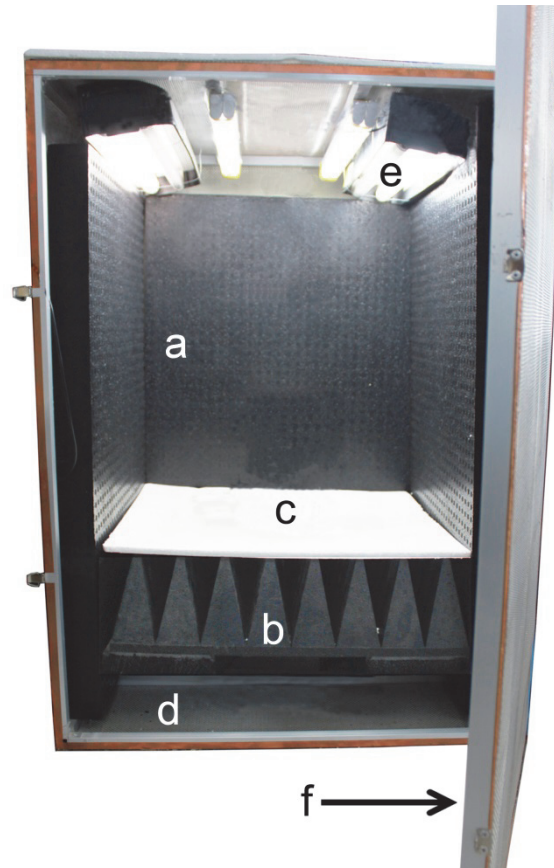


Fig. 2 Suppl. Microwave-shielded anechoic chamber with microwave-absorbing foams (*a* - flat microwave absorbing foam, *b* - pyramidal microwave absorbing foam, *c* - rigi-foam sheet, *d* - metal mesh around the chamber, *e* - fluorescent tubes, *f* - front-opening door of the chamber).

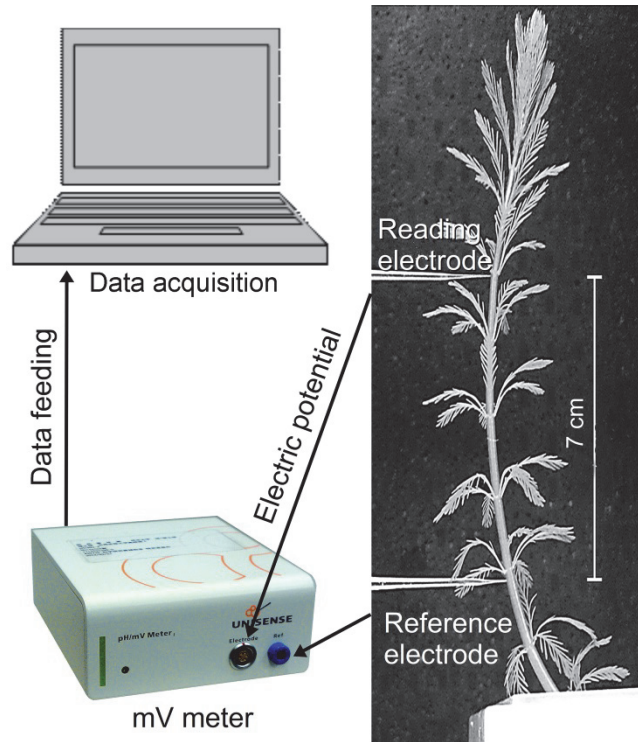


Fig. 3 Suppl. Electric potential along the stem of *M. aquaticum* recorded using a millivolt meter connected to a computer. Electric potential was measured using microelectrodes inserted in the stem at 7 cm interval.

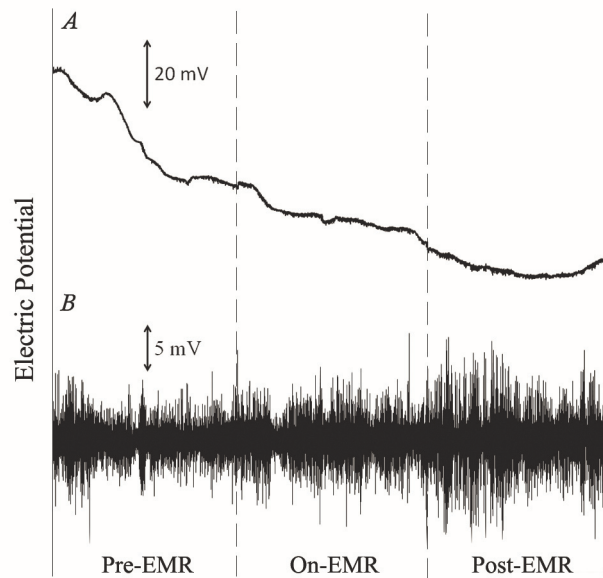
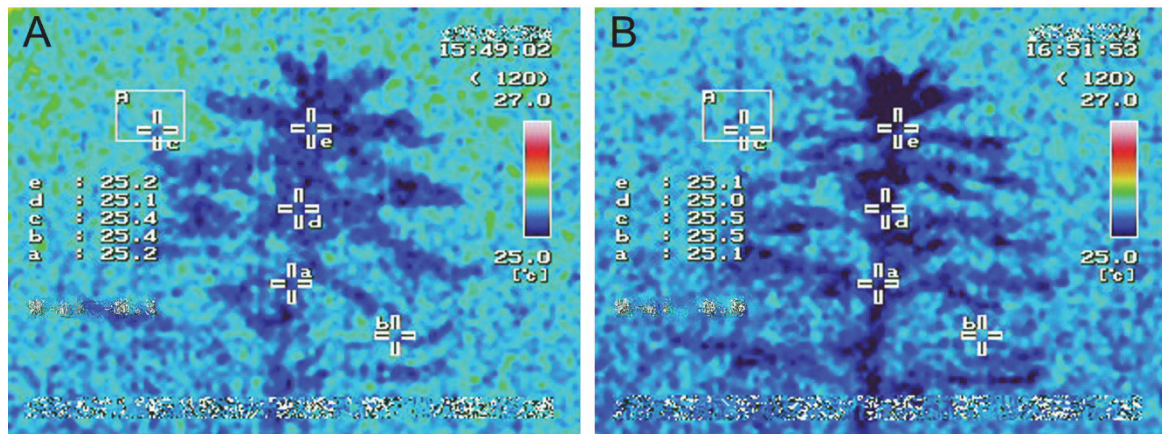


Fig. 4. Suppl. Electric potential of *M. aquaticum* plant stem recorded continuously for 4.5 h at a 1-s sampling interval under vertical polarization. *A* and *B* represent unmodified electric potential signal and linearized electric potential signal, respectively. The pre-EMR, on-EMR, and post-EMR stand for before, during, and after microwave exposure durations respectively.

hPol



vPol

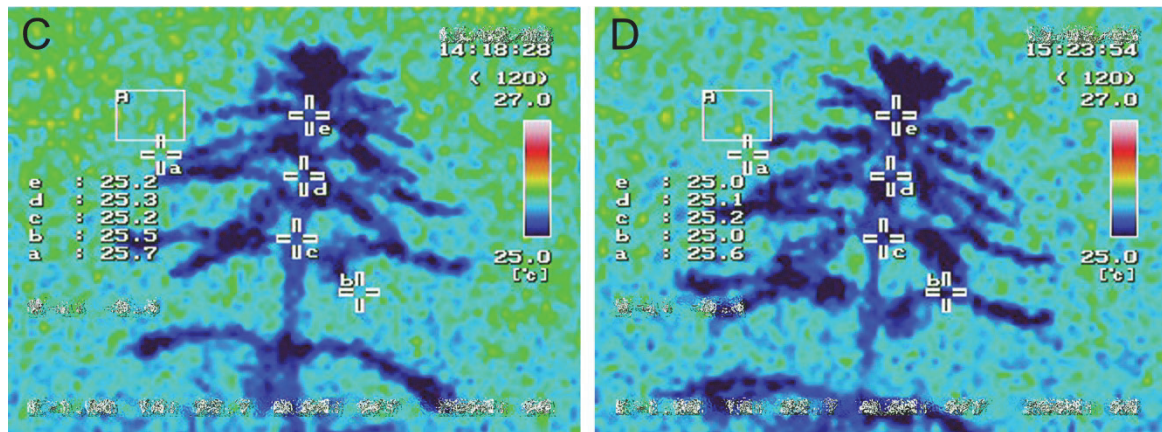


Fig. 5 Suppl. Thermographic images taken before 2 GHz microwave exposure (before), and on the completion of 1 h continuous 2 GHz microwave exposure (after). The 'hPol' and 'vPol' represent horizontally and vertically polarized microwaves, respectively. *A* and *C* indicating images of before EMR exposure and *B* and *D* indicate the 1 h microwave exposure images, respectively.