Featuring work from the group of Professor Liang Dong at the Iowa State University.

Title: Plant chip for high-throughput phenotyping of Arabidopsis

A vertical plant chip is developed for high-throughput and large-scale phenotyping of *Arabidopsis thaliana* plants. Multiple seeds can be germinated and grown hydroponically up to four weeks in the chip. The vertical arrangement of the chip makes it convenient to continuously monitor plant–pathogen interactions at different developmental stages, and phenotypic changes in plants at the whole organismal level, including seed germination and root and shoot growth, as well as at the cellular level.

As featured in:

See Huawei Jiang *et al.*, *Lab Chip*, 2014, **14**, 1281.

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