**Supplementary Figure 7**

**Fig. S7.** Experimental set-up for the AR phenotypic analysis of plants against mechanical touch. 

*Fig. S7. a* Experimental set-up for Fig. 4b. The leaf nodes of three-week-old plants grown in soil were covered with either soil or sand layer. In addition, to minimize the moisture of the sand layer, two layers of miracloth were positioned in between the sand and soil layers (sand+paper). It was found that the soil- or sand-covered leaf nodes produce similar numbers of ARs after ten days. 

*Fig. S7. b* Detailed procedure for preparing the sand+paper set-up in **a**.

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1. A waterproof paper sheet was cut along the dotted line.
2. Plants were inserted into the cut opening.
3. Sand particles were stacked on the paper sheet.