

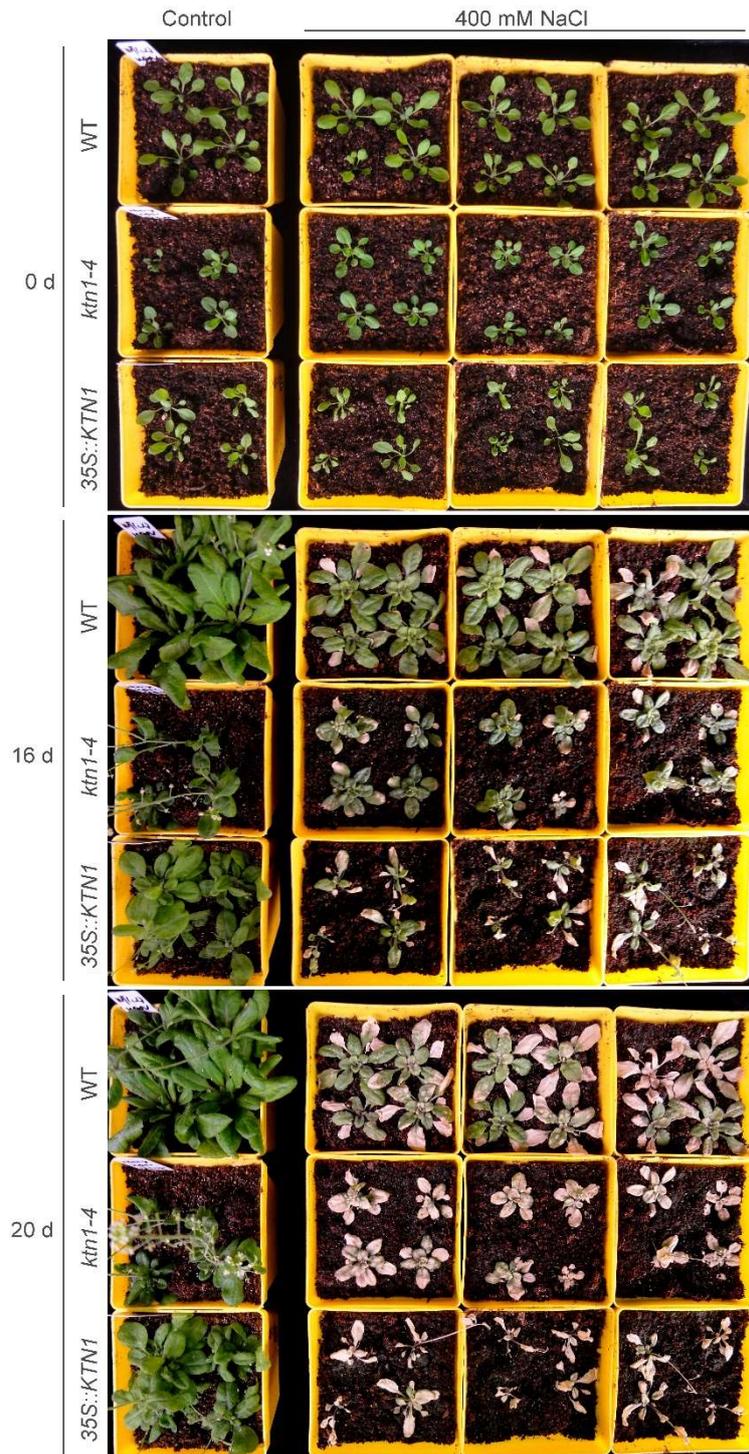
1 **AtKATANIN1 modulates microtubule depolymerization and reorganization in response**
2 **to salt stress in *Arabidopsis***

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7 **Supplemental material**



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9 **Figure S1. Both knock-out and overexpression of *AtKTN1* caused lower salt tolerance of**
 10 **seedlings in soil.**

11

12 Four-week-old seedlings grown in soil were flood irrigated with water or 400 mM NaCl every
 13 4 days. Images were taken at 16 d and 20 d after salt treatment respectively.

14

15 **Table S1. List of the primers used in this study.**

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Primer name	Sequence (5' to 3')
<i>AtKTNI</i> genomic For	GTCGACATGGTGGGAAGTAGTAAT
<i>AtKTNI</i> genomic Rev	GAATTCTTAAGCAGATCCAAACTC
<i>eIF4A</i> For	CAGAGAACACTCCAACCTGAATC
<i>eIF4A</i> Rev	GGGTATCTATGCTTACGGTTTCG
<i>QRT AtKTNI</i> For	CCCTGTTGGCAAAAGCTGTT
<i>QRT AtKTNI</i> Rev	GCATATGCCCTAGCCAGATCA
<i>QRT AtRD22</i> For	CCCATTCGCGGTGTTCTACT
<i>QRT At RD22</i> Rev	CCAAGTGGTTTGGGTTCCAA
<i>QRT AtKINI</i> For	GCTGGCAAAGCTGAGGAGAA
<i>QRT AtKINI</i> Rev	CCGGTCTTGTCCTTCACGAA
<i>QRT AtCOR15A</i> For	GTGACGGCAACATCCTCGAT
<i>QRT AtCOR15A</i> Rev	CCCAATGTATCTGCGGTTTCA
<i>QRT eIF4A</i> For	CGTAAGCATAGATACCCCTAAGAA
<i>QRT eIF4A</i> Rev	TGACCAGAGGCTGAATGAAGT

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18 **Movie S1.-S3. Time-lapse movies of microtubule severing in cotyledon pavement cells of**
19 **GFP-TUA6 labeled WT (Movie S1.), *ktn1-4* (Movie S2.) and *35S::KTN1* (Movie S3.)**
20 **seedlings corresponds to the diagram shown in Figure 3A.**

21

22 Images were collected at 4-s intervals and compressed into a movie with a display rate of 5
23 frames per second. The growing end of microtubule of interest is indicated by a yellow
24 arrowhead, while the severing site and the broken end is marked by a red arrowhead. Scale
25 bars= 5 μm .