

Figure. S1 The distribution of QDs can be observed in *Arabidopsis thaliana* roots by irrigating CdTe-QDs. Bars = 50 μ m.

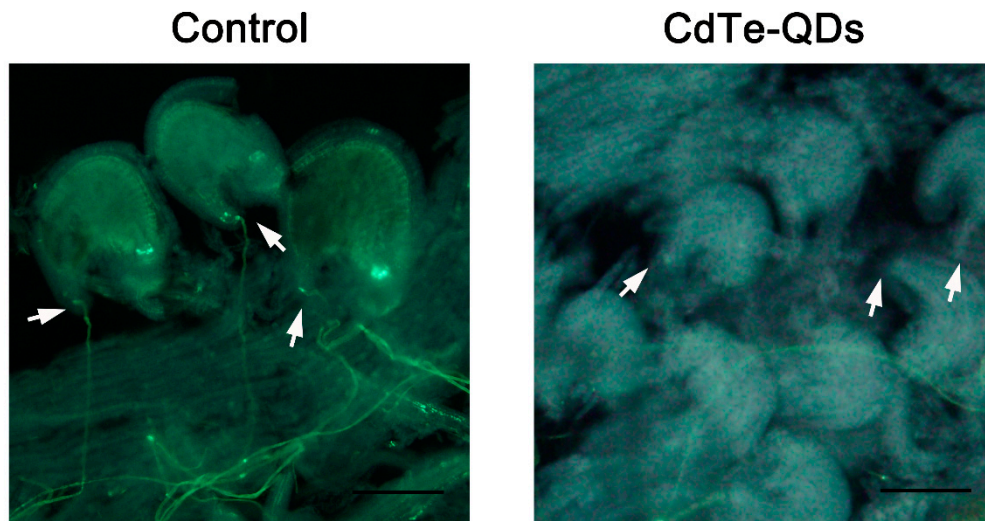


Figure. S2 Effect of CdTe-QDs on the growth of pollen tube of *Arabidopsis thaliana*. The pollen tube of QDs treatment group could not reach ovule normally to complete fertilization. Bars = 200 μ m.

Supplemental Table S1: list of primers used in this study.

Primer	Sequence
SOG1-F	AGTGGTGTGGAAGAGCAACC
SOG1-R	GCAATCCTGGCCAATCATCAA
SMR5-F	CAGCATATCCGCCTTGTCCA
SMR5-R	CTGCTACCACCGAGAAGAACAAGT
PARP2-F	ATCGGAGGTGATTGATCGGTATG
PARP2-R	AAATCATGAGGTATCACTGTGTAGAACTCT
BRCA1-F	GTGAACCTGTCTCTGCGGAT
BRCA1-R	TCCGGCTTCTTGTCAACTCC
RAD51-F	GTCCAACAACAAGACGATGAAGAA
RAD51-R	AACAGAAGCAATACCTGCTGCC
RBOHD-F	AACTCTCCGCTGATTCCAACG
RBOHD-R	TGGTCAGCGAAGTCTTTAGATTCCCT
APX2-F	TTGCTGTTGAGATCACTGGAGGA
APX2-R	TGAGGCAGACGACCTTCAGG
OXI1-F	TAGAGGATCGAACCGGAAAG
OXI1-R	GACCCTTGATTTCTCAACG
MPK3-F	GACGTTTGACCCCAACAGAA
MPK3-R	TGGCTTTTGACAGATTGGCTC
MPK6-F	TAAGTCCCCGACAGTGCATCC
MPK6-R	GATGGGCCAATGCGTCTAA
ACS2-F	CATGTTCTGCCTTGCGGATC
ACS2-R	ACCTGTCCGCCACCTCAAGT
GSH2-F	GGACTCGTCGTTGGTGACAA
GSH2-R	TCTGGGAATGCAGTTGGTAGC
PCNA1-F	GCAAAGATCTCAGTAGCATTGG
PCNA1-R	CGATAAGCTGATTGTCACTGTG
PCNA2-F	GAAGTTTTCAACAGCAGGTGAT
PCNA2-R	CTTCTTCTTCAATCTTAGGCGC
Actin7-F	AGGCACCTCTTAACCCTAAAGC
Actin7-R	GGACAACGGAATCTCTCAGC