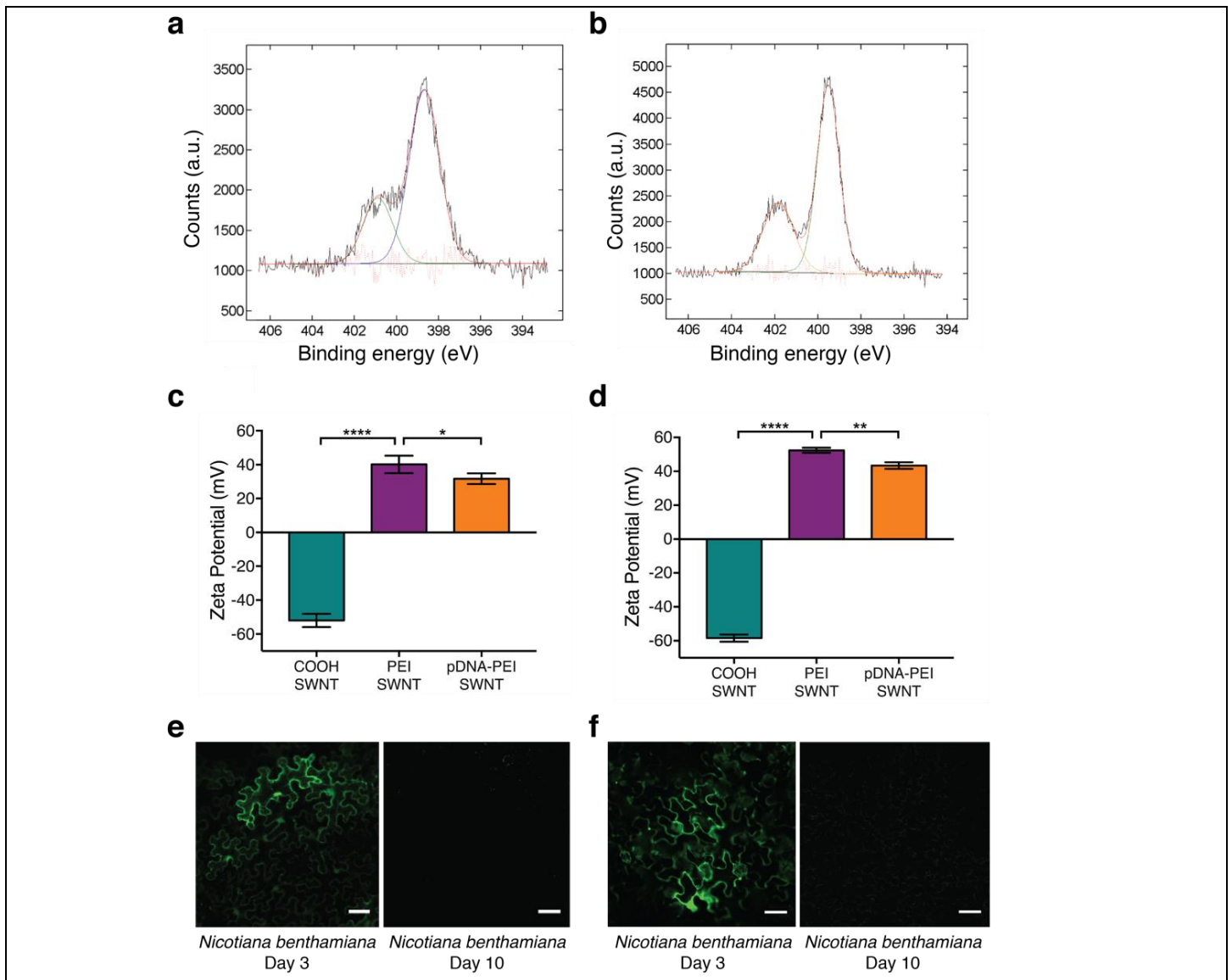


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Carbon nanotube-mediated DNA delivery without transgene integration in intact plants

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Supplementary Figure 1

Characterization and comparison of heat reaction and EDC/NHS coupling for the synthesis of PEI-SWNTs

a, XPS nitrogen peaks for the heat reacted PEI-SWNTs: amine peak at 399 eV and amide peak at 401 eV. **b**, XPS nitrogen peaks for the EDC/NHS reacted PEI-SWNTs. **c**, Zeta potential measurements of COOH-SWNTs, PEI-SWNTs via heat reaction, and DNA loaded PEI-SWNTs. **** $P < 0.0001$ and * $P = 0.0191$ in two-way ANOVA. $N=3$ and error bars are standard deviation. **d**, Zeta potential measurements of COOH-SWNTs, PEI-SWNTs via EDC/NHS coupling, and DNA loaded PEI-SWNTs. **** $P < 0.0001$ and ** $P = 0.0025$ in two-way ANOVA. $N=3$ and error bars are standard deviation. **e**, Representative confocal images at Day 3 and 10 of wild-type *Nicotiana benthamiana* leaves infiltrated with DNA-PEI-SWNTs prepared via heat reaction. **f**, Representative confocal images at Day 3 and 10 of wild-type *Nicotiana benthamiana* leaves infiltrated with DNA-PEI-SWNTs prepared via EDC/NHS coupling. All scale bars are 50 μm .