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Supplemental information

Opposing roles of plant laticifer cells in the resistance to insect herbivores and fungal pathogens

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SUPPLEMENTAL INFORMATION (SI)

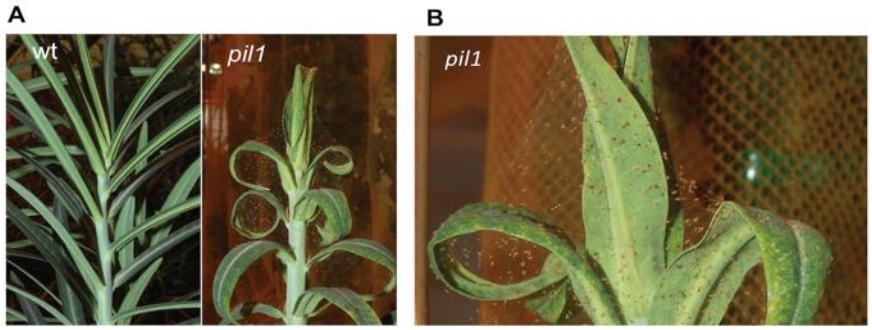

Figure S1. Response of latex and laticifer defective *E. lathyris* plants to infestation by spider mite *T. urticae*. (**A**) *T. urticae* heavily infested *pil1* plants, with apical leaf curling, and healthy wild-type plants, growing side by side. (**B**) Aggregated mites in the apical regions of *pil1* mutant.

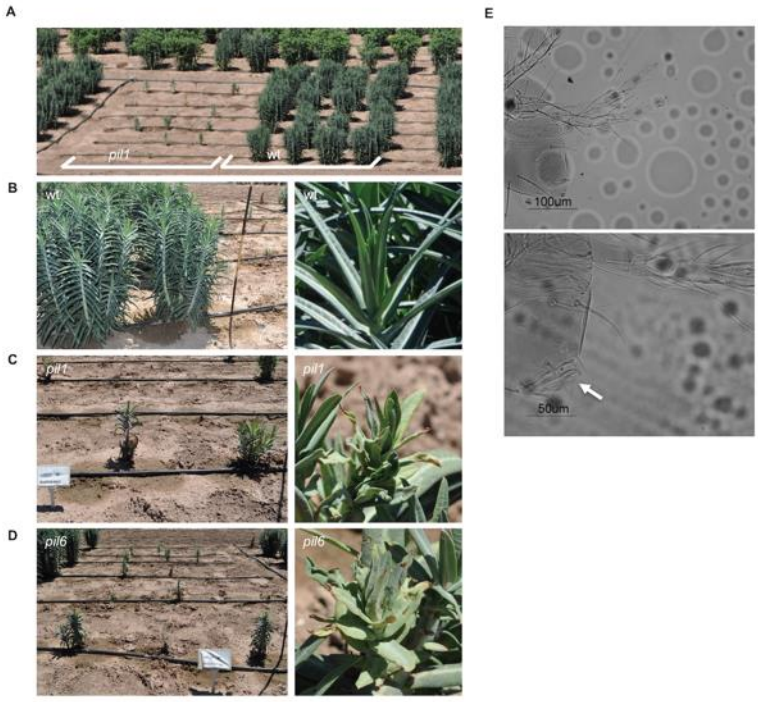

Figure S2. *pil* mutants become heavily infested by *T. urticae* when grown in the open field. Growth and performance of wild-type, *pil1*and *pil6* plants in the open field. Open field assays were performed twice on experimental plots located in Valencia (Spain) during 2013 and 2014. Pictures were taken 4 months after sowing (**A**) Overview of the severe growth retardation of *pil1* plants (left row of plants) compared to the normal growth of wild-type plants. (**B-D**) Details of *pil1* and *pil6* altered growth habit and plant deterioration with leaves exhibiting chlorosis, distortions and curling compared to the normal growth habit of wild-type plants grown in parallel and showing no sign of stress (B). (**E**) Inspection of *pil1* and *pil6* mutants revealed acute infestation by spider mites of *Tetranychus urticae*, identified under the microscope as male specimen showing the characteristic eadeagus (marked by an arrow). *T. urticae* is a highly polyphagous and cosmopolitan pest frequent in the Mediterranean Basin on many important crops and also on wild plants (http://www.montpellier.inra.fr/CBGP/spmweb). *T. urticae* individuals were not found on any of the wild-type plants scrutinized, despite their close proximity to *pil* plants in the experimental plots, therefore indicating that *E. lathyris* has a strong natural resistance to this herbivore.