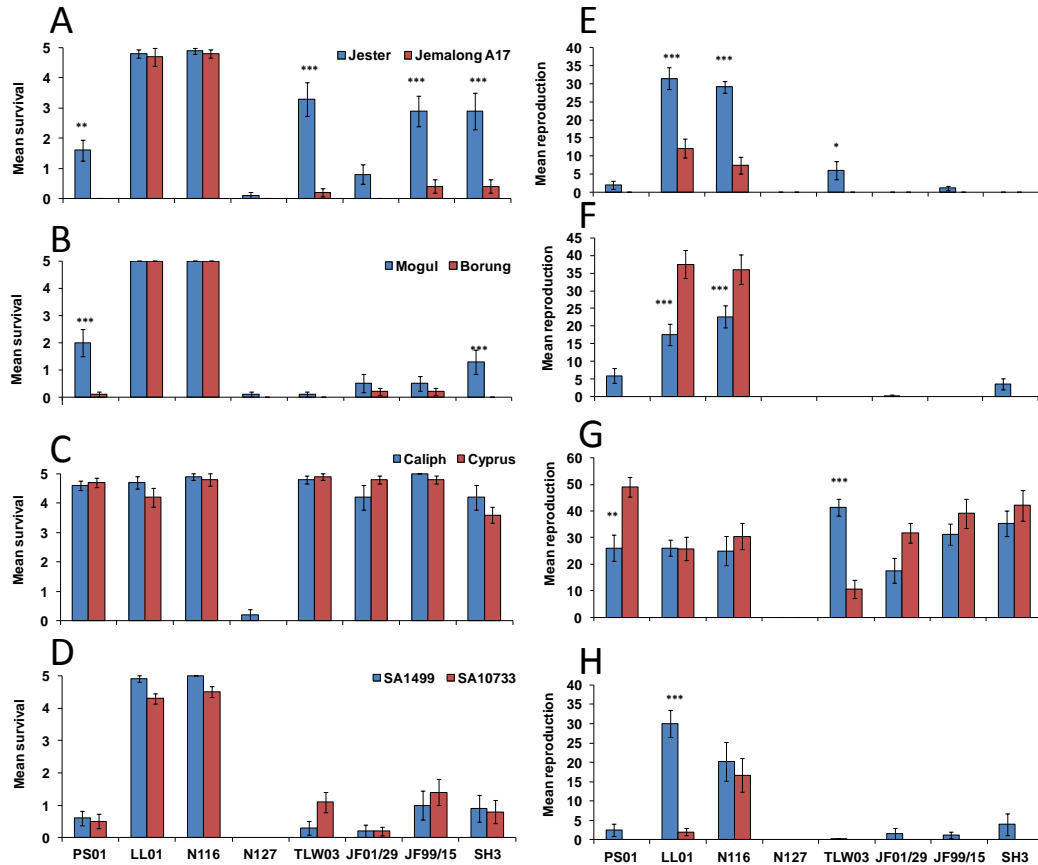
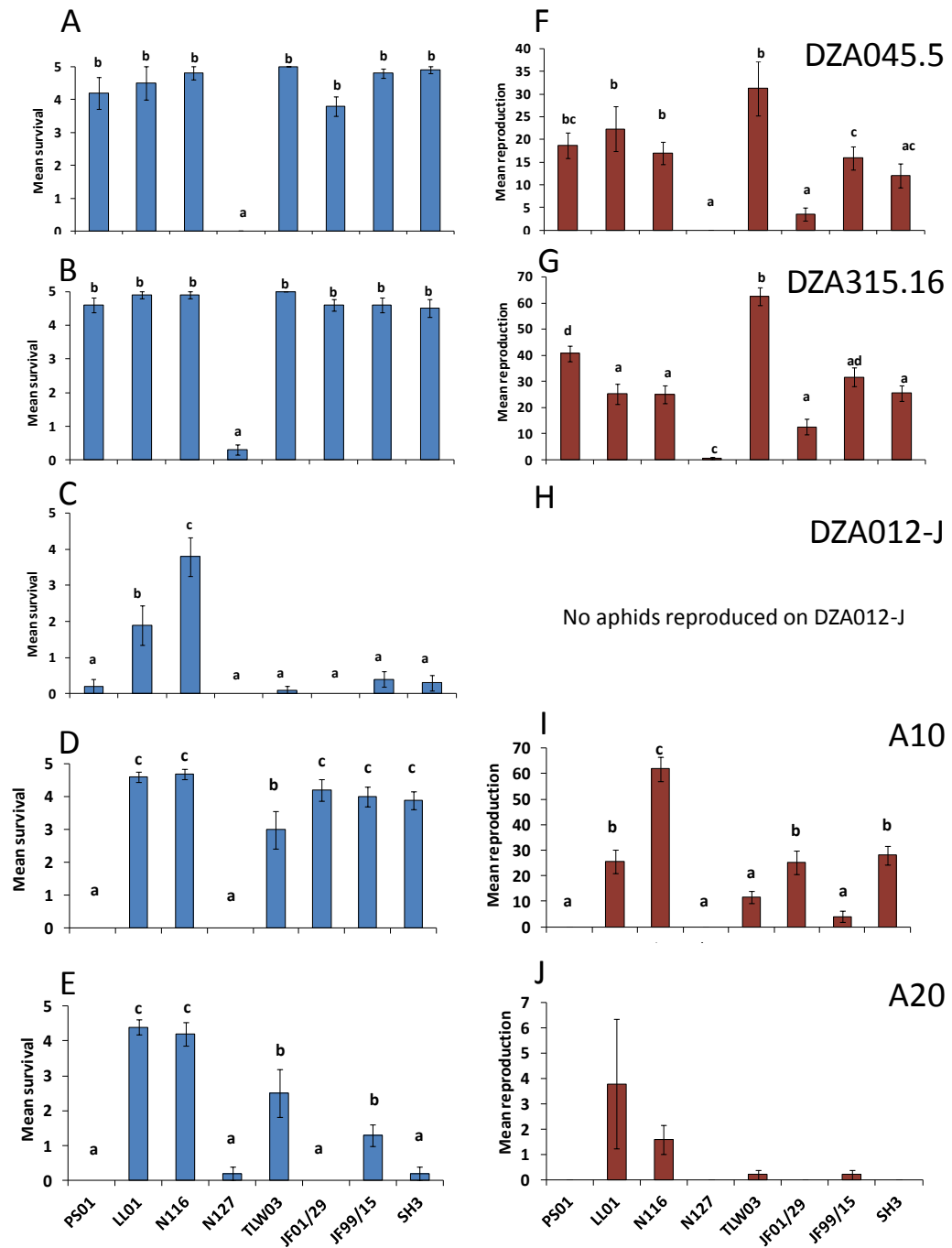


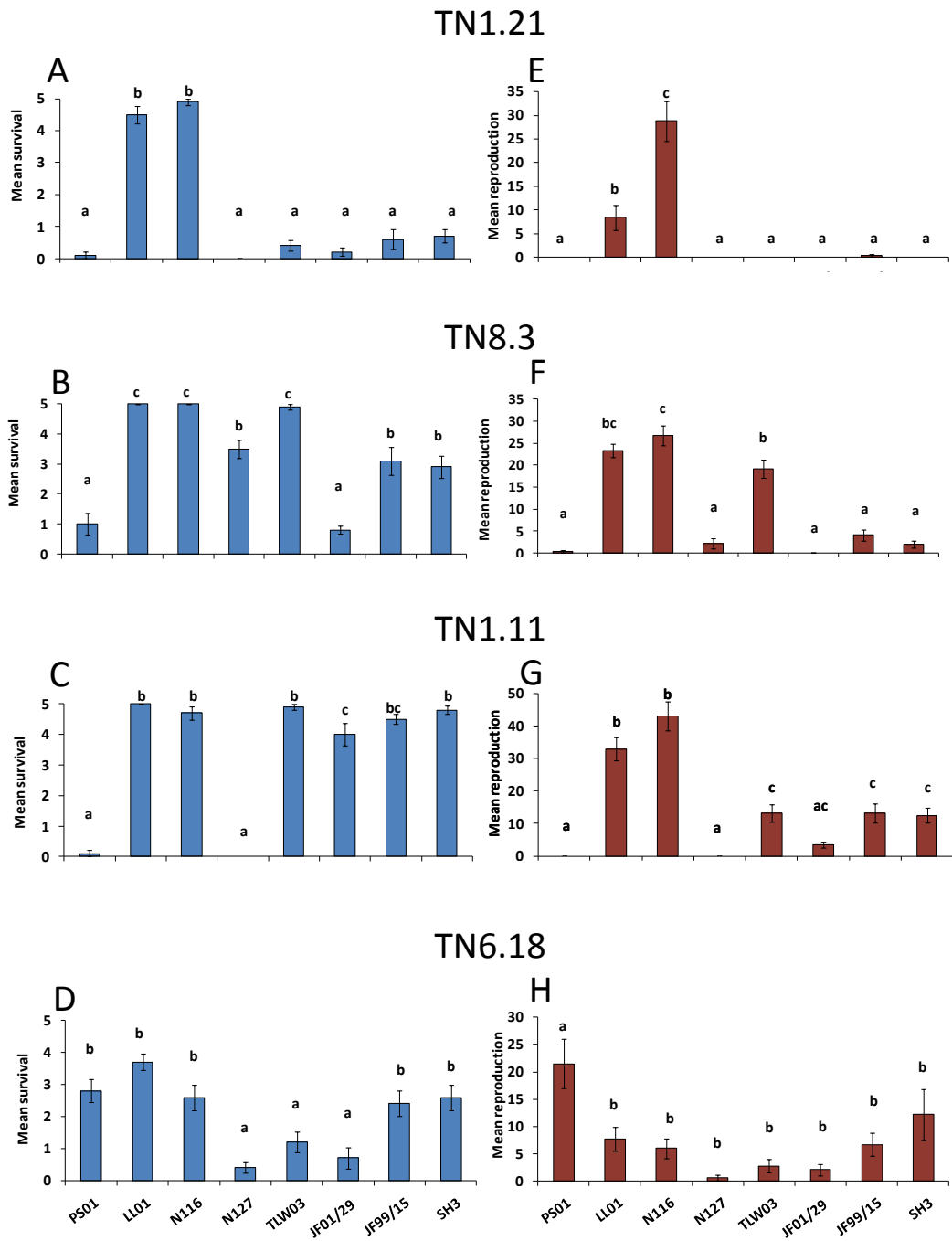
## Supplementary Figures



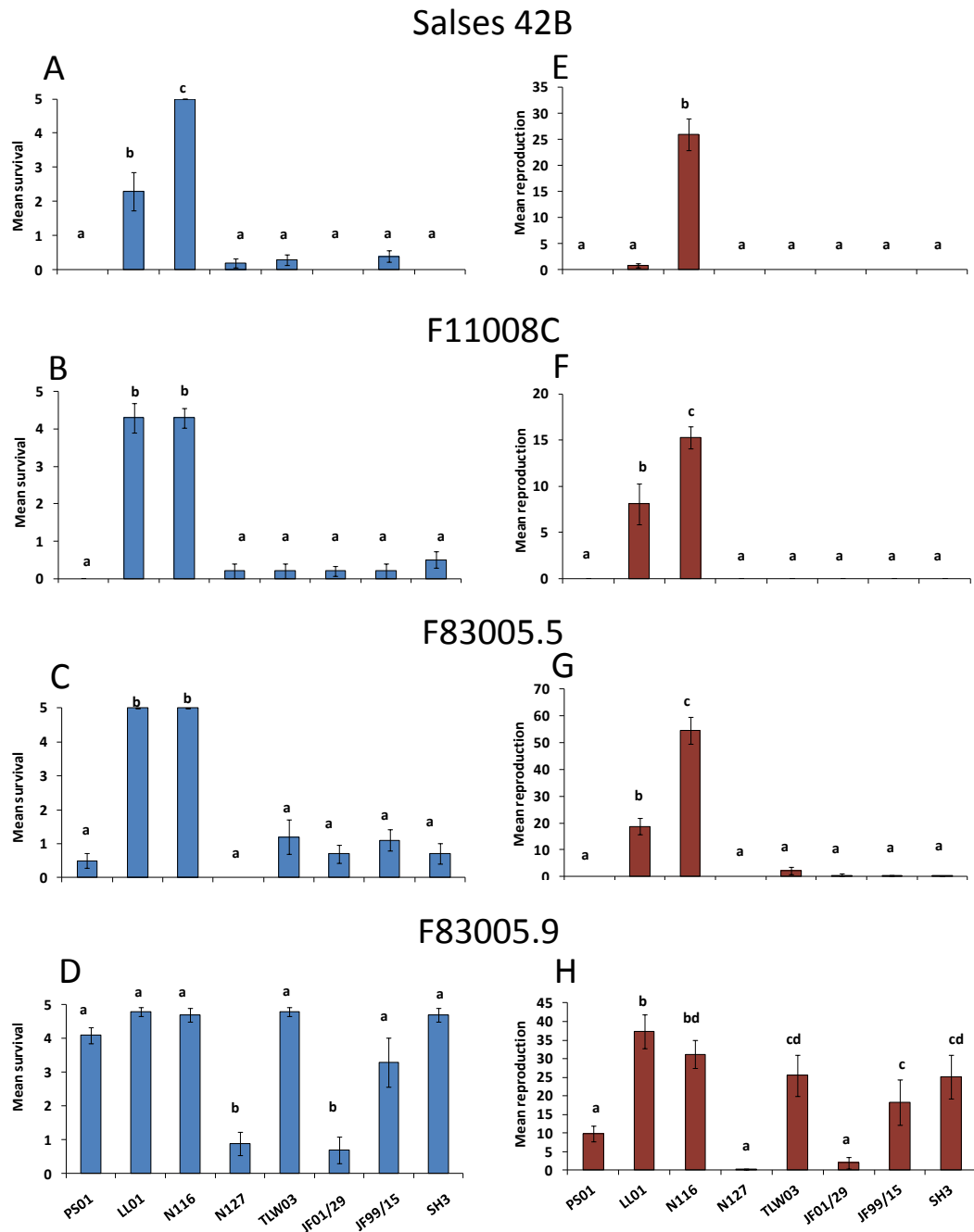
**Figure S1.** Performance of pea aphids on closely related pairs of resistant-susceptible *Medicago truncatula* cultivars and some progenitor lines used as sources of resistance. Performance is measured as survival (A-D) and reproduction (E-H) 8 d after infestation. Cultivar pairs are Jester – Jemalong A17 (A, E), Mogul – Borung (B, F) and Caliph – Cyprus (C, G). Progenitor lines are SA1499 and SA10733 (D, H). Bars show mean  $\pm$  SE (5 nymphs per plant, 10 plants). Within each graph, pairs of bars marked with asterisks are significantly different from each other (\*\* $P < 0.01$ , \*\*\* $P < 0.001$ , \* $P < 0.05$ ).



**Figure S2.** Performance of pea aphids on Algerian and Moroccan *M. truncatula* genotypes. Performance is measured as survival (A-E), and reproduction (F-J) at 8 d after infestation. Algerian lines are DZA045.5 (A, F), DZA315.6 (B, G) and DZA012-J (C, H). Moroccan lines are A10 (D, I) and A20 (E, J). Bars show mean  $\pm$  SE (5 nymphs per plant, 10 plants). Significantly different means within each graph are labelled with different letters ( $P < 0.05$ ).

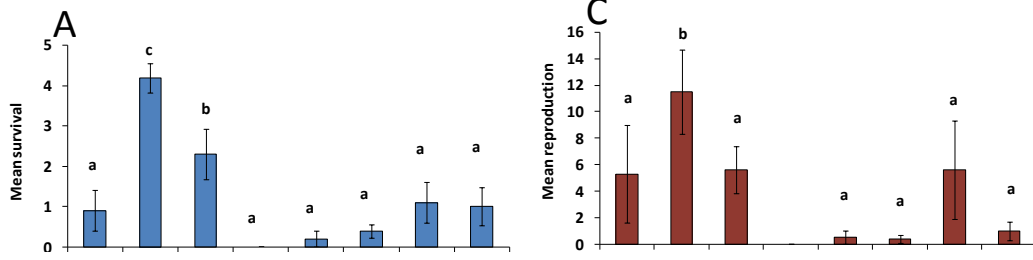


**Figure S3.** Performance of pea aphids on Tunisian *M. truncatula* genotypes. Performance is measured as survival (A-D) and reproduction (E-H) at 8 d after infestation. Lines are TN1.21 (A, E), TN8.3 (B, F), TN1.11 (C, G) and TN6.18 (D, H). Bars show mean  $\pm$  SE (5 nymphs per plant, 10 plants). Significantly different means within each graph are labelled with different letters ( $P < 0.05$ ).

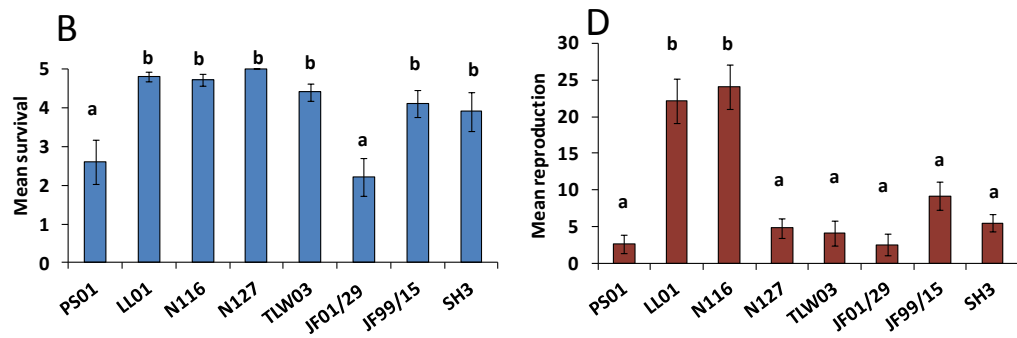


**Figure S4.** Performance of pea aphids on French *M. truncatula* genotypes. Performance is measured as survival (A-D) and reproduction (E-H) at 8 d after infestation. Lines are Salses 42B (A, E), F11008C (B, F), F83005.5 (C, G) and F83005.9 (D, H). Bars show mean  $\pm$  SE (5 nymphs per plant, 10 plants). Significantly different means within each graph are labelled with different letters ( $P < 0.05$ ).

### SA28064

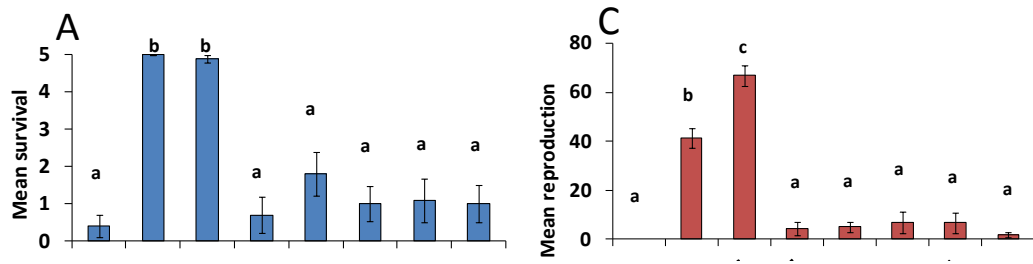


### R108C

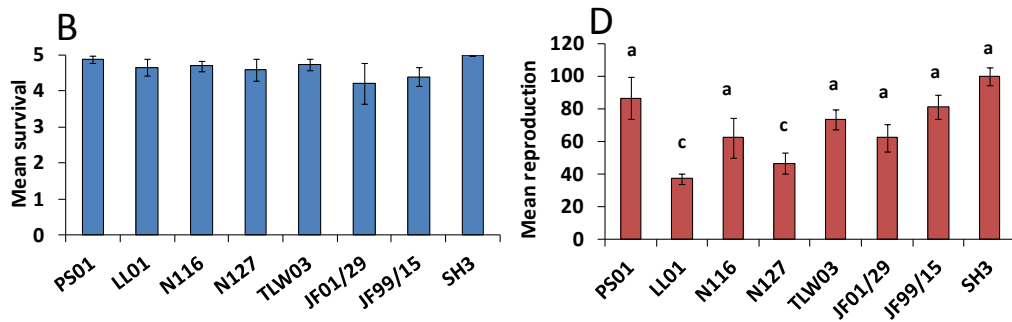


**Figure S5.** Performance of pea aphids on *M. truncatula* genotypes from Cyprus and Israel. Performance is measured as survival (A, B) and reproduction (C, D) at 8 d after infestation. Cypriot line is SA28064 (A, C) and Israeli line is R108C (B, D). Bars show mean  $\pm$  SE (5 nymphs per plant, 10 plants). Significantly different means within each graph are labelled with different letters ( $P < 0.05$ ).

*Medicago sativa*



*Vicia faba*



**Figure S6.** Performance of pea aphids on *M. sativa* (A, C) and *V. faba* (B, D). Performance is measured as survival (A, B) and reproduction (C, D) at 8 d after infestation. Bars show mean  $\pm$  SE (5 nymphs per plant, 10 plants). Significantly different means within each graph are labelled with different letters ( $P < 0.05$ ).