

Supplementary Figures

Title: Evolution of salt tolerance in *Arabidopsis thaliana* on siliceous soils does not convey tolerance to saline calcareous soils

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Figure S1: Experimental design.

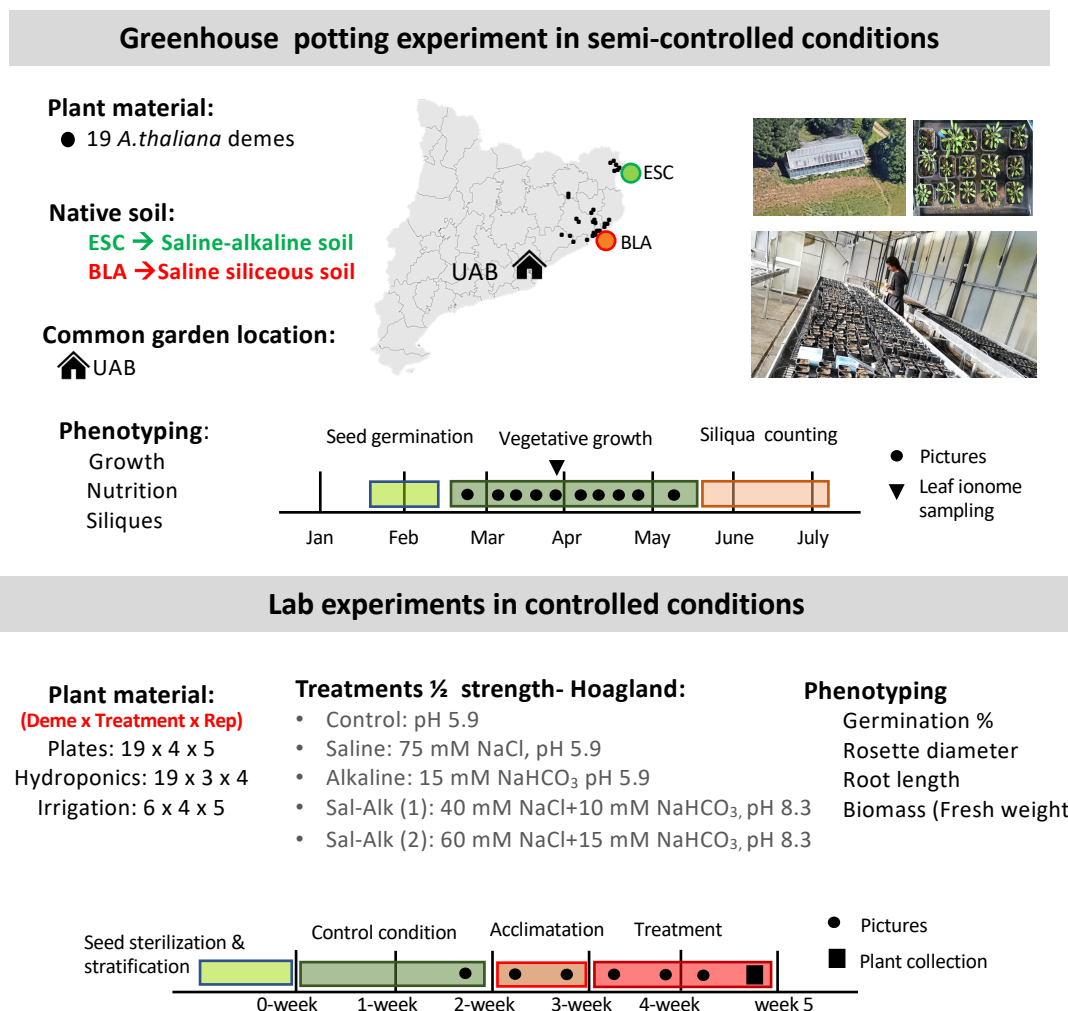


Figure S2: *Arabidopsis thaliana* demes distribution (black dots) in Catalonia (ICC) and Europe (ESDAC) soil maps. (A) geologic map, (B) soil pH, (C) soil CaCO_3 , and (D) soil Cation-exchange capacity (CEC). Color code legends are in the figure.

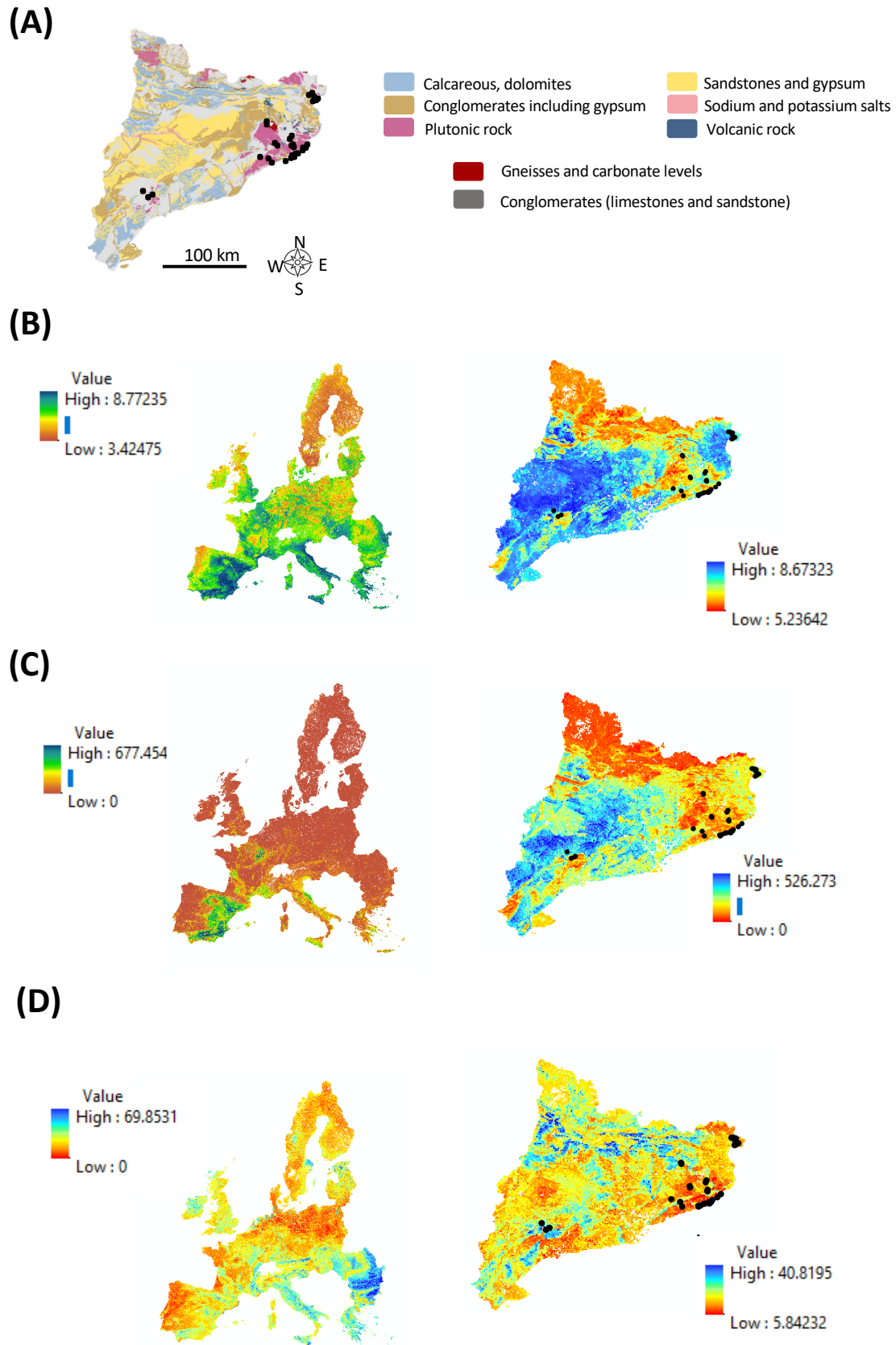


Figure S3: Saline and alkaline-saline soil analysis. (A) Soil pH, Electric conductivity (EC. 1:2.5 extract) and % CaCO₃ average and standard deviation table. **(B)** Radial plot of the saline (red) and saline-alkaline (green) soil ionome. Statistical differences between ions in both soils are indicated by an asterisk ($n=6$).

(A)

Soil location	pH _(1:5)	EC (dS/m)	% CaCO ₃
BLA	6.30 ± 0.33	1.93 ± 0.18	2.00 ± 1.25
ESC1	8.44 ± 0.05	1.8 ± 0.21	18.86 ± 1.50

Soil location	Geology	Texture
BLA	Granitoid	Sandy-loam
ESC1	Limestone	Sandy-loam

(B)

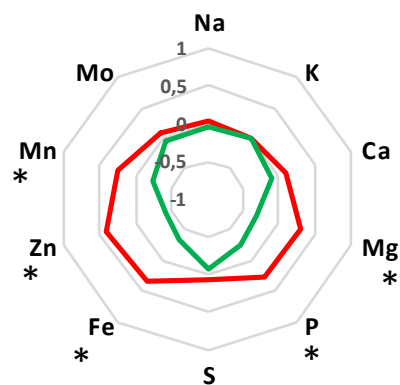


Figure S4: Irrigation experiment. Rosette diameter (cm), root length (cm) and Biomass (g) of 5 plants per deme and treatment. Significant differences between groups are indicated by letters (*HSD test*).

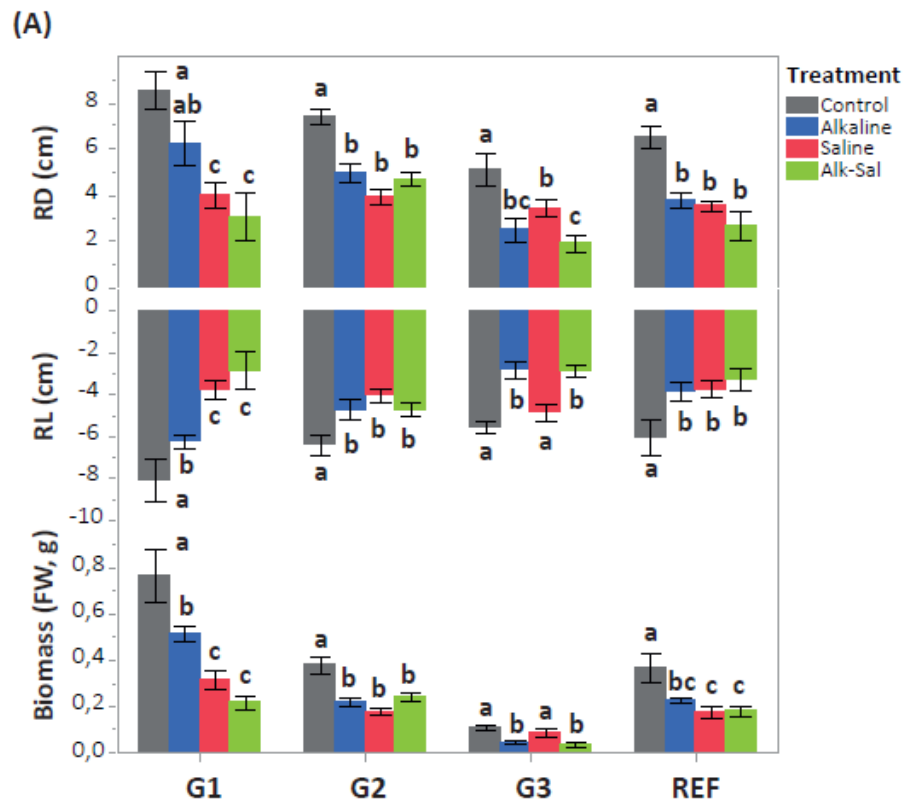


Figure S5. Alignment of *FRO2* (At1G01580), *CCB4* (At1G59840), and *NINJA* (At4G28910) genomic sequences of A5 (representative of G1), V1 (representative of G2) and T6 (representative of G3) *A. thaliana* individuals. The coding sequence (CDS) of each gene is highlighted and the SNPs are marked as black lines (not encoding), red lines (non-synonymous change), purple lines (synonymous change).

