

## Supporting Information:

### Recipient and donor characteristics govern hierarchical structure in a heterospecific pollen competition network of co-flowering plants

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The following Supporting Information is available for this article:

**Table S1.** Species names, common names, varieties and sources of the different seeds.

**Table S2.** Numerical values of all the traits measured for each species.

**Table S3.** Seed set in percentage for hand cross-pollination, hand self-pollination, natural selfing and apomixis for all species.

**Table S4.** Species x species matrix with the significance of effect “yes” or “no” of the different donors on the seed set of the different recipient species.

**Table S5.** Estimates, standard error, t-value and P-value of the effect of the different 9 donors on each recipient species.

**Table S6.** Number of seeds produced with 100% foreign pollen treatments for the different recipient species.

**Table S7.** Phylogenetic signal and significance for all the different traits

**Table S8.** Procrustes analysis results.

**Figure S1.** Correlation matrix for all the different traits.

**Figure S2.** Total amount of pollen found for the different treatments.

**Figure S3.** Pollen ratios for the different recipient species.

**Figure S4.** Pollen ratios for the different recipient species by family.

**Figure S5.** Statistical comparison of pollen ratios by family as pollen donor and recipient.

**Figure S6.** Violin plot of the reproductive biology of the species.

**Figure S7.** Grouped effect sizes by family for each recipient species.