Supporting Information

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SI Methods

We constructed a phylogenetic tree of all our species using the program PHYLOMATIC (1) (Fig. S1). This program assembles a phylogeny using a backbone plant mega-tree based on a variety of sources primarily involving DNA studies. Because the resulting tree showed many polytomies at the family level, we resolved within-family relationships using the following recently published

- Webb CO, Donoghue MJ (2005) Phylomatic: Tree assembly for applied phylogenetics. Mol Ecol Notes 5:181–183.
- Funk VA, et al. (2005) Everywhere but Antarctica: Using a supertree to understand the diversity and distribution of the Compositae. *Kongelige Danske Videnskabernes* Selskab Biologiske Skrifter 55:343–374.
- Långström E, Chase MW (2002) Tribes of Boraginoideae (Boraginaceae) and placement of Antiphytum, Echiochilon, Ogastemma and Sericostoma: A phylogenetic analysis based on atpB plastid DNA sequence data. *Plant Syst Evol* 234:137–153.
- 4. Bailey CD, et al. (2006) Toward a global phylogeny of the Brassicaceae. *Mol Biol Evol* 23:2142–2160.
- Eddie WMM, Shulkina T, Gaskin J, Haberle RC, Jansen RK (2003) Phylogeny of Campanulaceae s. str. inferred from its sequences of nuclear ribosomal DNA. *Ann Mo Bot Gard* 90:554–575.
- Haberle RC, et al. (2009) Taxonomic and biogeographic implications of a phylogenetic analysis of the Campanulaceae based on three chloroplast genes. Taxon 58:715–734.
- Fior S, Karis PO, Casazza G, Minuto L, Sala F (2006) Molecular phylogeny of the Caryophyllaceae (Caryophyllales) inferred from chloroplast matK and nuclear rDNA ITS sequences. Am J Bot 93:399–411.

phylogenies: Asteraceae (2), Boraginaceae (3), Brassicaceae (4), Campanulaceae (5, 6), Caryophyllaceae (7), Convolvulaceae (8), Lamiaceae (9), Malvaceae (10), Onagraceae (11), Papaveraceae (12), Ranunculaceae (12), and Solanaceae (8). We adjusted the branch lengths for the resulting tree using the bladj function in PHYLOCOM (13), which calibrates unknown node ages by linear interpolation of ages from Wikström et al. (14).

- 8. Olmstead RG, et al. (2008) A molecular phylogeny of the Solanaceae. *Taxon* 57: 1159–1181.
- Wagstaff SJ, Olmstead RG, Cantino PD (1995) Parsimony analysis of cpDNA restriction site variation in subfamily Nepetoideae (Labiatae). Am J Bot 82:886–892.
- Escobar García P, Schönswetter P, Fuertes Aguilar J, Nieto Feliner G, Schneeweiss GM (2009) Five molecular markers reveal extensive morphological homoplasy and reticulate evolution in the Malva alliance (Malvaceae). *Mol Phylogenet Evol* 50: 226–239.
- Ford VS, Gottlieb LD (2007) Tribal relationships within Onagracea inferred from PgiC sequences. Syst Bot 32:348–356.
- Wang W, Lu AM, Ren Y, Endress ME, Chen ZD (2009) Phylogeny and classification of Ranunculales: Evidence from four molecular loci and morphological data. *Perspect Plant Ecol Evol Syst* 11:81–110.
- 13. Webb CO, Ackerley DD, Kembel SW (2006) Phylocom: Software for the analysis of community phylogenetic structure and trait evolution, version 4.1. Available at: http://www.phylodiversity.net/phylocom.
- Wikström N, Savolainen V, Chase MW (2001) Evolution of the angiosperms: Calibrating the family tree. Proc Biol Sci 268:2211–2220.



Fig. S1. Phylogenetic tree of the 58 plant species used in the three experiments.

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Table 51. Raw and phylogenetically corrected correlations between species traits, including the interaction with the factor "status" (wild or cultivated plant species), assessed with generalized least squares correlation models

				Raw correlati	ons		Phy	logenetically correcte	ed correlations	
Y variable	X variable	c	X variable	Status	Status $ imes$ X variable	AIC	X variable	Status	Status $ imes$ X variable	AIC
Induced resistance	Constitutive resistance	58	$-0.110 \pm 0.054^{**}$	$-0.084 \pm 0.040^{**}$	$-0.249 \pm 0.099^{**}$	-127.4	$-0.155 \pm 0.062^{**}$	$-0.102 \pm 0.037 ***$	$-0.288 \pm 0.092 ***$	-86.4
Relative growth rate	Constitutive resistance	51	$-0.079 \pm 0.043^{*}$	$0.077 \pm 0.037^{**}$	$0.166 \pm 0.086^{*}$	-131.5	-0.053 ± 0.034	$0.083 \pm 0.025^{***}$	$0.162 \pm 0.055^{***}$	-129.2
Relative growth rate	Induced resistance	51	0.073 ± 0.136	0.015 ± 0.018	-0.030 ± 0.197	-130.8	-0.016 ± 0.111	0.020 ± 0.014	-0.123 ± 0.133	-127.3
Competitive ability	Constitutive resistance	53	-0.285 ± 0.585	0.671 ± 0.458	1.285 ± 1.190	116.2	-0.85 ± 0.533	-0.149 ± 0.382	-0.715 ± 0.834	130.8
Competitive ability	Induced resistance	53	-0.923 ± 1.720	0.149 ± 0.232	1.452 ± 2.615	113.6	$2.436 \pm 1.367*$	-0.045 ± 0.193	0.857 ± 1.796	122.7

Shown are coefficients \pm SEs (SEM) and the value for the Akaike information criterion (AIC). *P < 0.1; **P < 0.05; ***P < 0.01.

Table S2. Raw and phylogenetically corrected correlations between species traits, separately for wild and cultivated plant species, assessed with generalized least squares correlation models

		Wild plants			Cultivated plants			Phylogopotic
Y variable	X variable	N	X-variable	AIC	n	X-variable	AIC	correction
Induced resistance	Constitutive resistance	18	-0.358 ± 0.091***	-31.1	40	-0.109 ± 0.052**	-94.8	No
Induced resistance	Constitutive resistance	18	-0.521 ± 0.095****	-18.6	40	-0.162 ± 0.049***	-83.8	Yes
Relative growth rate	Constitutive resistance	13	0.113 ± 0.052*	-27.2	38	-0.043 ± 0.040	-92.7	Yes
Relative growth rate	Induced resistance	13	-0.065 ± 0.082	-24.5	38	-0.076 ± 0.123	-94.2	Yes
Competitive ability	Constitutive resistance	15	-2.576 ± 1.028**	45.2	38	-0.416 ± 0.512	90.7	Yes
Competitive ability	Induced resistance	15	4.363 ± 1.248***	41.1	38	2.816 ± 1.438*	85.6	Yes

Shown are coefficients \pm SEs (SEM) and the value for the Akaike information criterion (AIC).

P* < 0.1; *P* < 0.05; ****P* < 0.01; *****P* < 0.001.

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Asteraceae Achillea filipendulina C + + Calendula officinalis C + + Chryanthemum carinatum C + + Senecio bicolor C + + Senecio bicolor C + + Cichorium inybus W + + Boraginaceae Anchusa capensis C + + Cynoglosum amabile C + + + Haina Savatile C + + + Brascicaceae Alysum savatile C + + Brascicaceae Alysum savatile C + + Campanulaceae Campanula pyramidalis C + + Campanulaceae Campanula pyramidalis C + + Campanulaceae Dianthus caryophyllus C + + Campanula rapunculus W + + + Campanulaceae Campanula rapunculus W + + Campanula pyramidalis C + <td< th=""><th>Family</th><th>Species name</th><th>Status</th><th>Resistance</th><th>Growth rate</th><th>Competitive ability</th></td<>	Family	Species name	Status	Resistance	Growth rate	Competitive ability
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Physalis peruviana C + + +	Solanaceae	Nicotiana sylvestris	C	+	+	+
		Physalis peruviana	C	+	+	+

 Table S3.
 List of the 18 wild plant species (W) and 40 cultivated ornamental garden plant species (C) used in our three experiments to assess different life-history traits

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Table S4. Raw and phylogenetically corrected correlations between species traits assessed with generalized least squares correlation models

			Raw correlatio	'n	Phylogenetically corrected correlation		
Y variable	X variable	n	Coefficient \pm SEM	AIC	Coefficient \pm SEM	AIC	
Induced resistance	Constitutive resistance	58	$-0.249 \pm 0.058 ****$	-90.1	-0.185 ± 0.047 ****	-134.1	
Relative growth rate	Constitutive resistance	51	-0.0398 ± 0.0381	-140.6	-0.0063 ± 0.034	-133.6	
Relative growth rate	Induced resistance	51	-0.0654 ± 0.096	-141.7	-0.1126 ± 0.0639*	-138.0	
Competitive ability	Constitutive resistance	53	-0.05 ± 0.49	115.2	-0.972 ± 0.465**	128.1	
Competitive ability	Induced resistance	53	-0.095 ± 1.27	113.3	$2.93 \pm 0.85^{***}$	120.3	

Shown are regression coefficients \pm SEs (SEM) and the value of the Akaike information criterion (AIC).

*P < 0.1; **P < 0.05; ***P < 0.01; ****P < 0.001.

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