

SUPPLEMENTARY DATA

FIG. S1: Three habitats were defined according to elevation, water-logging and soil drainage conditions. Sampled mother trees are indicated by red circles and numbers.

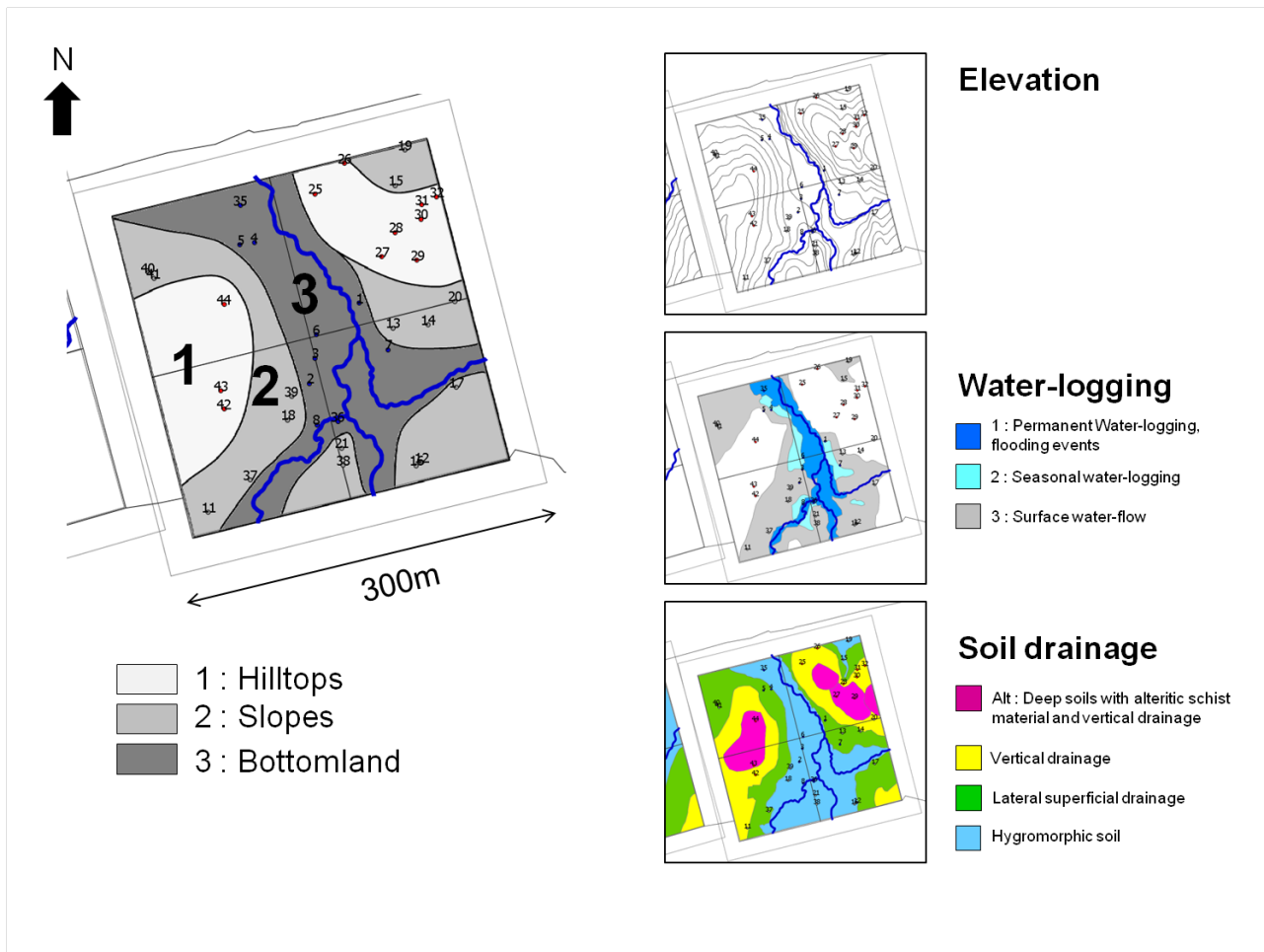


FIG. S2: relative size of different effects on trait variability (seed mass effect is not displayed here and therefore the bars do not sum to 100%).

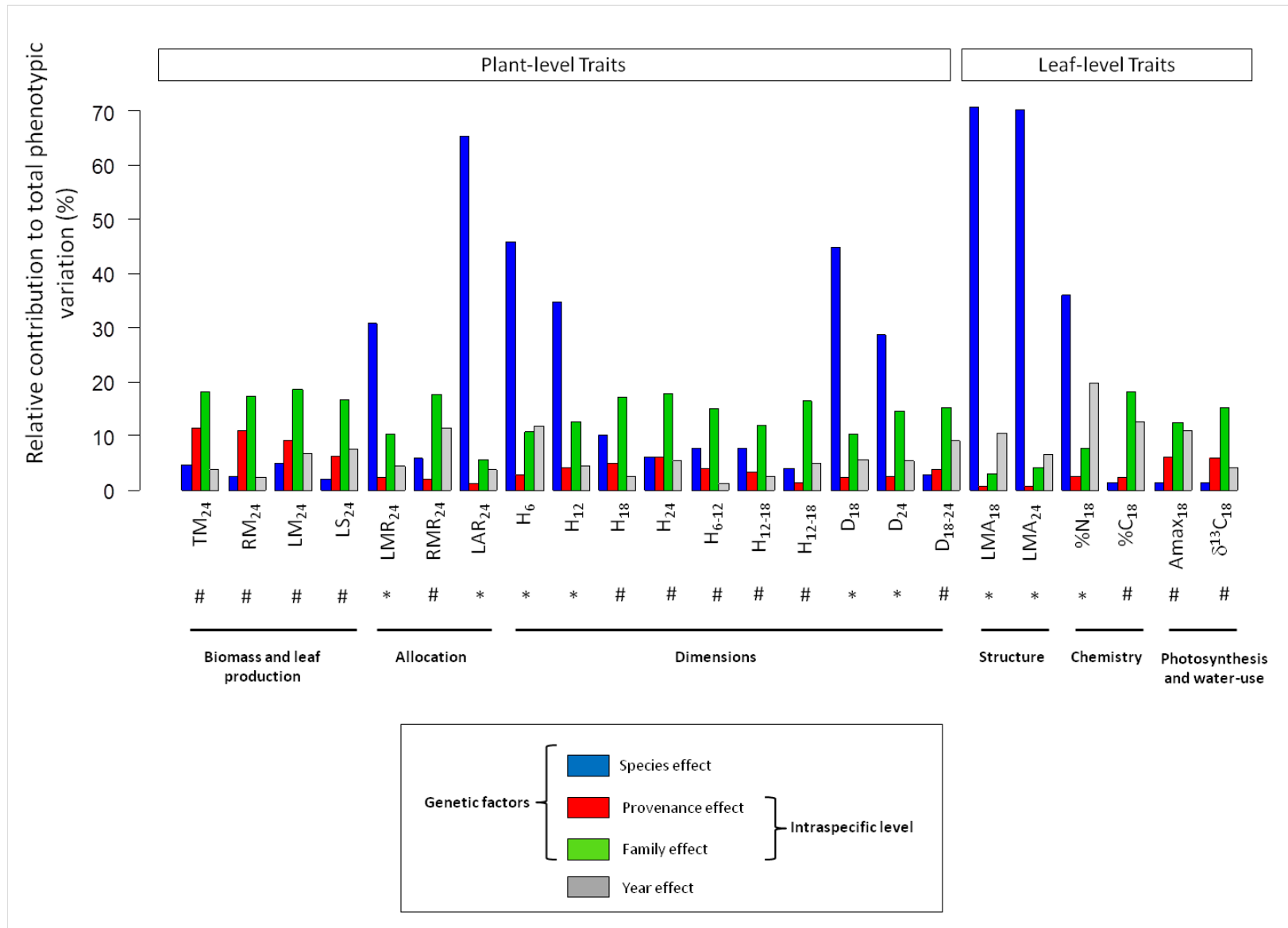


FIG. S3: Pearson's correlation between phenotypic traits at seedling and maternal family level for *Eperua falcata*. Colours indicate the sign and strength of significant correlations (blue = negative correlation; red = positive correlation; deeper colours indicate stronger correlation). Empty cells correspond to non significant correlations ($\alpha = 5\%$). Significance levels: * = 5%; ** = 1% or less. FDR: seedling level: 0.07% ($\alpha = 5\%$) and 0.01% ($\alpha = 1\%$); maternal family level: 0.4% ($\alpha = 5\%$) and 0.06% ($\alpha = 1\%$).

	H6	H12	H18	H24	D18	D24	H612	H1218	H1824	D1824	LMA18	LMA24	Amax18	d13C18	N18	C18	LA	LM	RM	TM	LAR	LMR	RMR
H6		0.91**	0.86**	0.83**	0.88**	0.77**	0.77**	0.82**	0.47**				0.55**	0.82**			0.75**	0.77**	0.71**	0.79**	-0.46**	-0.42**	-0.57**
H12	0.78**		0.97**	0.87**	0.93**	0.81**	0.97**	0.8**	0.49**				0.71**	0.9**			0.77**	0.79**	0.74**	0.82**	-0.47**	-0.41*	-0.62**
H18	0.61**	0.88**		0.88**	0.93**	0.84**	0.96**	0.9**	0.51**	0.34*			0.73**	0.9**			0.81**	0.83**	0.78**	0.85**	-0.4*	-0.34*	-0.63**
H24	0.57**	0.8**	0.92**		0.88**	0.92**	0.82**	0.74**	0.75**	0.48**			0.69**	0.78**			0.92**	0.92**	0.84**	0.92**			-0.76**
D18	0.67**	0.84**	0.81**	0.73**		0.9*	0.89**	0.76**	0.53**				0.76**	0.81**			0.81**	0.85**	0.85**	0.9**	-0.5**	-0.47**	-0.63**
D24	0.61**	0.79**	0.84**	0.83**	0.86**		0.78**	0.72**	0.65**	0.59**			0.7**	0.73**			0.86**	0.87**	0.88**	0.91**	-0.39*	-0.37*	-0.63**
H612	0.41**	0.89**	0.84**	0.74**	0.74**	0.71**		0.84**	0.46**				0.75**	0.87**			0.72**	0.75**	0.71**	0.79**	-0.43**	-0.36*	-0.61**
H1218	0.23**	0.47**	0.83**	0.78**	0.51**	0.63**	0.52**		0.38*	0.36*			0.68**	0.81**			0.73**	0.74**	0.73**	0.76**			-0.49**
H1824	0.22**	0.24**	0.31**	0.66**	0.23**	0.39**	0.18**	0.3**		0.62**			0.52**				0.71**	0.68**	0.58**	0.64**			-0.54**
D1824	0.25**	0.36**	0.49**	0.56**	0.26**	0.72**	0.34**	0.5**	0.41**				0.35*				0.46**	0.38*	0.38*	0.37*			
LMA18	0.19**	0.1**		-0.08**	0.2**			-0.22**	-0.1**	-0.17**		0.35*									-0.48**	-0.38*	
LMA24		0.07**	0.07**		0.23**	0.15**	0.11**		-0.23**		0.36**										-0.62**	-0.5**	0.47**
Amax18	0.23**	0.43**	0.59**	0.63**	0.39**	0.52**	0.45**	0.6**	0.39**	0.45**	-0.19**	-0.07*		0.58**			0.56**	0.59**	0.65**	0.67**	-0.4*	-0.41*	-0.51**
d13C18	0.37**	0.52**	0.58**	0.52**	0.6**	0.54**	0.49**	0.47**	0.15**	0.22**	0.09**	0.19**	0.3**			0.37*	0.72**	0.73**	0.62**	0.71**	-0.38*		-0.64**
N18	0.35**	0.3**	0.26**	0.31**	0.18**	0.26**	0.19**	0.14**	0.25**	0.25**	0.09**	-0.18**	0.27**	0.1**		0.36*							
C18	0.18**	0.19**	0.16**	0.15**	0.16**	0.16**	0.13**	0.07**	0.06**	0.09**			0.15**	0.11**	0.13**								
LA	0.56**	0.7**	0.76**	0.85**	0.67**	0.79**	0.61**	0.58**	0.6**	0.56**		-0.1**	0.53**	0.45**	0.35**	0.14**		0.98**	0.88**	0.94**			-0.68**
LM	0.58**	0.73**	0.78**	0.85**	0.72**	0.81**	0.64**	0.6**	0.56**	0.55**			0.53**	0.48**	0.34**	0.14**	0.99**		0.9**	0.97**			-0.7**
RM	0.59**	0.79**	0.84**	0.81**	0.83**	0.84**	0.73**	0.62**	0.36**	0.46**		0.11**	0.51**	0.53**	0.21**	0.2**	0.82**	0.85**		0.97**	-0.48**	-0.44**	-0.45**
TM	0.59**	0.82**	0.88**	0.88**	0.82**	0.89**	0.76**	0.88**	0.44**	0.55**		0.11**	0.54**	0.54**	0.25**	0.18**	0.9**	0.93**	0.95**		-0.39**	-0.33*	-0.62**
LAR	-0.23**	-0.35**	-0.33**	-0.18**	-0.45**	-0.34**	-0.33**	-0.21**	0.24**		-0.25**	-0.51**	-0.06*	-0.31**	0.17**	-0.13**	0.07*		-0.32**	-0.26**		0.93**	
LMR	-0.21**	-0.32**	-0.32**	-0.15**	-0.41**	-0.31**	-0.32**	-0.21**	0.23**		-0.11**	-0.36**	-0.06*	-0.27**	0.18**	-0.16**	0.09**		-0.31**	-0.24**	0.92**		
RMR	-0.25**	-0.38**	-0.5**	-0.59**	-0.3**	-0.49**	-0.38**	-0.49**	-0.47**	-0.52**	0.2**	0.11**	-0.47**	-0.24**	-0.32**		-0.58**	-0.57**	-0.29**	-0.49**	-0.31**	-0.35**	

FIGURE S4: Pearson's correlation between phenotypic traits at seedling and maternal family level for *Eperua grandiflora*. Colours indicate the sign and strength of significant correlations (blue = negative correlation; red = positive correlation; deeper colours indicate stronger correlation). Empty cells correspond to non significant correlations ($\alpha = 5\%$). Significance levels: * = 5%; ** = 1% or less. FDR: seedling level: 0.2% ($\alpha = 5\%$) and 0.04% ($\alpha = 1\%$); maternal family level: 1.2% ($\alpha = 5\%$) and 0.3% ($\alpha = 1\%$).

	H6	H12	H18	H24	D18	D24	H612	H1218	H1824	D1824	LMA18	LMA24	Amax18	d13C18	N18	C18	LA	LM	RM	TM	LAR	LMR	RMR		
H6		0.91**	0.89**	0.69*	0.78**	0.86**																		-0.67*	
H12	0.83**		0.93**	0.85**	0.89**	0.81**	0.8**										0.77**	0.73*	0.79**	0.81**					-0.81**
H18	0.71**	0.85**		0.94**	0.71*	0.73*	0.76**	0.8**									0.9**	0.86**	0.85**	0.9**					-0.86**
H24	0.62**	0.78**	0.91**		0.65*	0.7*	0.72*	0.81**	0.71*								0.95**	0.93**	0.9**	0.94**					-0.88**
D18	0.72**	0.79**	0.69**	0.59**		0.77**	0.76**												0.73*	0.68*					
D24	0.88**	0.78**	0.74**	0.7**	0.85**					0.69*						0.67*									-0.71*
H612	0.39**	0.84**	0.7**	0.67**	0.61**	0.64**											0.77**	0.76**	0.73*	0.77**					-0.7*
H1218	0.24**	0.29**	0.74**	0.68**	0.24**	0.36**	0.2**		0.79**		-0.8**	-0.77**	0.71*				0.82**	0.81**	0.7*	0.76**					-0.68*
H1824		0.18**	0.2**	0.58**		0.21**	0.22**	0.14*				-0.93**	0.79**				0.73*	0.74**				0.65*			
D1824	0.26**	0.35**	0.43**	0.49**	0.19**	0.68**	0.34**	0.33**	0.32**							0.65*									
LMA18	0.19**				0.24**			-0.22**		-0.14*		0.63*													
LMA24	0.24**	0.19**			0.33**	0.28**		-0.14*	-0.26**		0.42**		-0.72*				-0.63*	-0.63*				-0.62**	-0.8**		
Amax18		0.19**	0.3**	0.4**	0.19**	0.29**	0.25**	0.31**	0.37**	0.29**								0.62*							
d13C18	0.44**	0.4**	0.41**	0.37**	0.41**	0.41**	0.23**	0.22**		0.2**		0.22**													-0.67*
N18	-0.15*	-0.18**	-0.17**		-0.14*	-0.12*	-0.13*		0.17**												-0.68*	-0.65*			
C18			0.15*				0.14*				-0.29**			0.17**	-0.24**										
LA	0.48**	0.64**	0.78**	0.86**	0.55**	0.64**	0.56**	0.61**	0.53**	0.41**			0.32**	0.29**				1**	0.89**	0.95**					-0.83**
LM	0.52**	0.67**	0.8**	0.87**	0.6**	0.68**	0.59**	0.61**	0.49**	0.42**			0.32**	0.32**			0.86**		0.9**	0.96**					-0.79**
RM	0.69**	0.79**	0.77**	0.72**	0.8**	0.82**	0.62**	0.42**	0.17**	0.4**	0.15**	0.26**	0.25**	0.41**			0.72**	0.76**		0.98**					-0.64*
TM	0.68**	0.81**	0.87**	0.87**	0.77**	0.82**	0.67**	0.56**	0.35**	0.45**		0.14*	0.31**	0.44**			0.89**	0.92**	0.92**						-0.75**
LAR	-0.39**	-0.34**	-0.17**		-0.5**	-0.39**	-0.19**		0.35**		-0.41**	-0.56**		-0.33**	0.14*		0.2**		-0.39**	-0.21**			0.95**		
LMR	-0.34**	-0.27**			-0.41**	-0.32**	-0.13*	0.16**	0.35**		-0.29**	-0.41**		-0.28**		-0.15*	0.27**	0.23**	-0.31**	-0.12*	0.94**				
RMR	-0.18**	-0.28**	-0.42**	-0.53**	-0.16**	-0.24**	-0.29**	-0.41**	-0.45**	-0.22**	0.2**	0.24**	-0.25**				-0.53**	-0.52**		-0.38**	-0.45**	-0.49**			