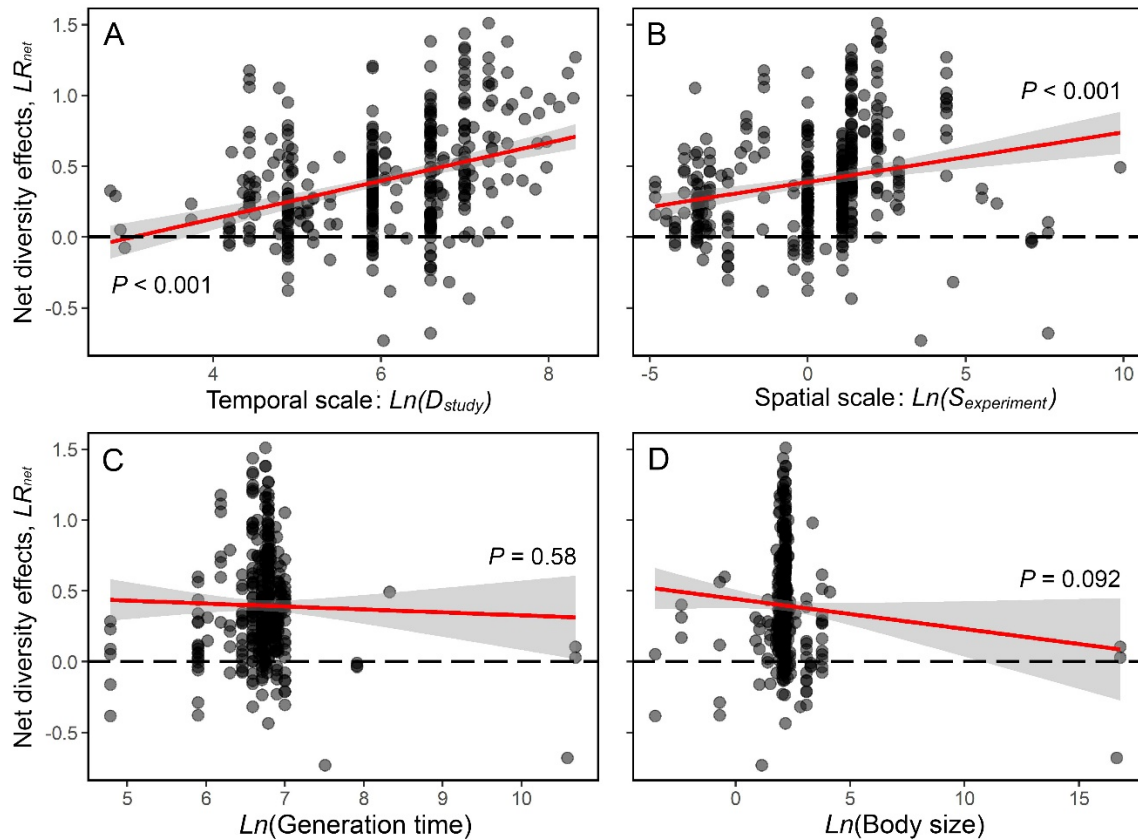


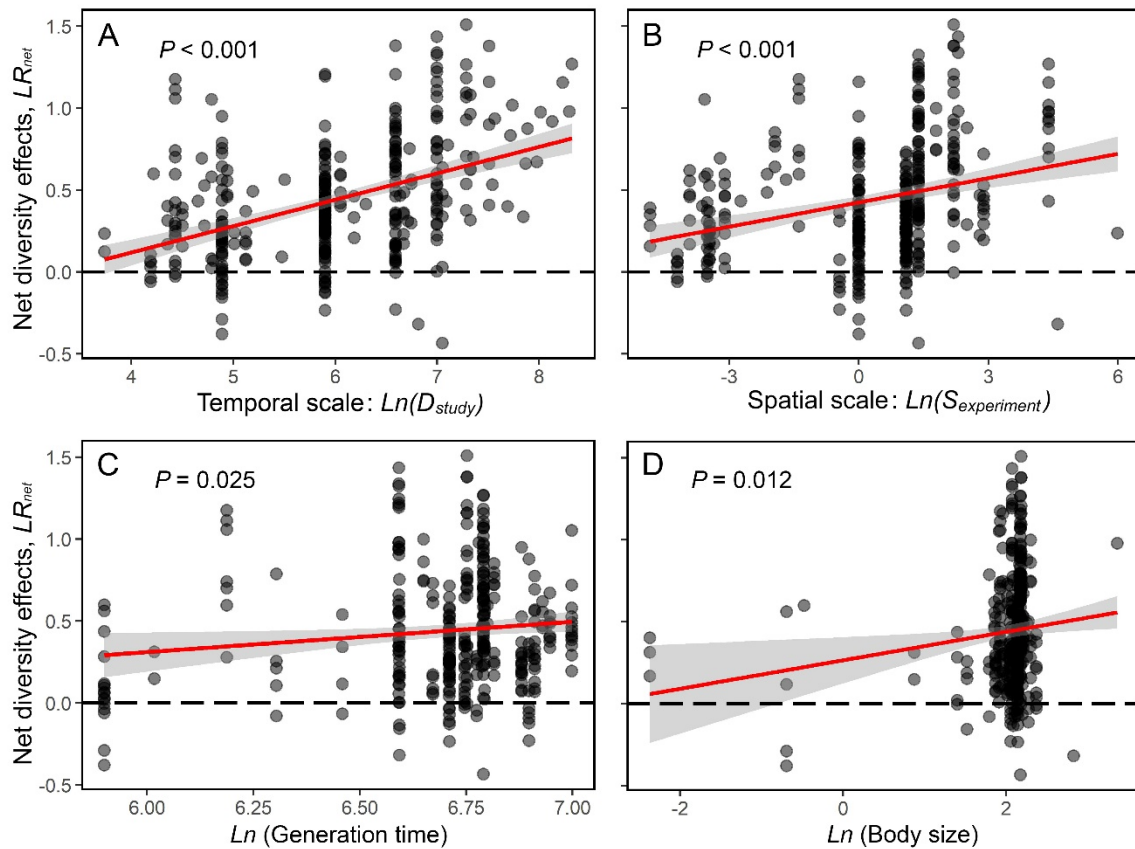
Supporting Information. Qiu, J., and B.J. Cardinale. 2020. Scaling up biodiversity–ecosystem function relationships across space and over time. *Ecology*.

Appendix S3: Additional analyses using non-standardized scale measurements

Appendix S3: Figure S1. Correlations and level of significance between net effects of plant diversity on biomass production, and non-standardized (A) temporal scale – represented as the natural log of study duration, D_{study} (unit: number of days), (B) spatial scale – represented as the natural log of experimental unit size, $S_{experiment}$ (unit: m^2), (C) natural log of generation time (unit: number of days); and (D) natural log of body size (unit: gram) across all studies included in the analysis. We used the log-transformation for raw scale measurements since untransformed data varied several orders of magnitude across all experiments.



Appendix S3: Figure S2. Correlations and level of significance between net effects of plant diversity on biomass production, and non-standardized (A) temporal scale – represented as the natural log of study duration, D_{study} (unit: number of days), (B) spatial scale – represented as the natural log of experimental unit size, $S_{experiment}$ (unit: m^2), (C) natural log of generation time (unit: number of days); and (D) natural log of body size (unit: gram) across all grassland studies. We used the log-transformation for raw scale measurements since untransformed data varied several orders of magnitude across all experiments.



Appendix S3: Table S1. General linear mixed-effects model results showing how non-standardized spatial (S) and temporal scales (T) influence plant diversity effects – LR_{net} across all grassland studies. Model was fitted by restricted maximum likelihood (REML), and significant test was performed with the Satterthwaite approximations

		Estimated β	SE	t-value	Prob. ($> t$)
LR_{net}	Intercept	-0.552	0.151	-3.67	<0.001
	S	-0.147	0.051	-2.90	0.004
	T	0.157	0.026	5.98	<0.001
	$S:T$	0.023	0.009	2.50	0.013