

Supplementary Table S4. Responses of quinoa genotypes (Q) in competition with wild radish (*Raphanus raphanistrum*) and/or ryegrass (*Lolium multiflorum*), expressed as the percentage reduction in nitrogen (N) and phosphorus (P) in replacement series experiments. UFFS, Erechim, RS Campus.

Plant proportion Quinoa : wild radish	Reduction (%) in N and P uptake by quinoa genotypes					
	Q 1303 x Wild radish		Q 1324 x Wild radish		Q 1331 x Wild radish	
	N	P	N	P	N	P
100:0 (C)	0.00	0.00	0.00	0.00	0.00	0.00
75:25	42.94	47.83	65.12	69.40	47.74	60.99
50:50	71.74	71.15	87.66	90.12	58.12	73.66
25:75	83.53	83.60	90.63	90.68	82.04	85.83
Plant proportion Quinoa : ryegrass	Q 1303 x Ryegrass		Q 1324 x Ryegrass		Q 1331 x Ryegrass	
	N	P	N	P	N	P
	N	P	N	P	N	P
100:0 (C)	0.00	1.53	5.22	12.86	0.00	0.00
75:25	1.62	0.00	0.00	0.00	14.36	14.56
50:50	37.31	37.73	31.92	28.12	44.86	46.58
25:75	60.30	61.03	56.40	60.61	74.77	73.12

* Mean differs from the respective control (C) by Dunnett's ($p \leq 0.05$).