

Supplementary Table 1 List of 135 quinoa samples used in this study

Sample number	Accession number	Country
1	Ames 13721	USA
2	Ames 13722	USA
3	Ames 13724	USA
4	Ames 13725	USA
5	Ames 13726	USA
6	Ames 13727	USA
7	Ames 13728	USA
8	Ames 13729	USA
9	Ames 13730	USA
10	Ames 13731	USA
11	Ames 13732	USA
12	Ames 13733	USA
13	Ames 13734	USA
14	Ames 13735	USA
15	Ames 13736	USA
16	Ames 13737	USA
17	Ames 13738	USA
18	Ames 13739	USA
19	Ames 13740	USA
20	Ames 13741	USA
21	Ames 13741	USA
22	Ames 13742	USA
23	Ames 13743	USA
24	Ames 13744	USA
25	Ames 13745	USA
26	Ames 13746	USA
27	Ames 13747	Bolivia
28	Ames 13748	USA
29	Ames 13749	USA
30	Ames 13749	USA
31	Ames 13750	USA
32	Ames 13751	USA
33	Ames 13752	USA
34	Ames 13753	USA
35	Ames 13754	USA
36	Ames 13756	USA
37	Ames 13757	USA
38	Ames 13758	USA
39	Ames 13759	USA
40	Ames 13760	USA
41	Ames 13761	USA
42	Ames 13762	USA
43	Ames 13763	USA
44	Ames 13764	USA
45	Ames 13765	USA
46	Ames 13766	USA
47	Ames 13767	Chile
48	PI 478408	Mexico
49	PI 478410	Mexico

Supplementary Table 1 (Continued)

Sample number	Accession number	Country
50	PI 478411	Bolivia
51	PI 478414	Bolivia
52	PI 478414	Bolivia
53	PI 478415	Bolivia
54	PI 478418	Bolivia
55	PI 510532	Peru
56	PI 510533	Peru
57	PI 510533	Peru
58	PI 510536	Peru
59	PI 510537	Peru
60	PI 510537	Peru
61	PI 510551	Peru
62	PI 510538	Peru
63	PI 510539	Peru
64	PI 510540	Peru
65	PI 510540	Peru
66	PI 510541	Peru
67	PI 510542	Peru
68	PI 510542	Peru
69	PI 510542	Peru
70	PI 510542	Peru
71	PI 510543	Peru
72	PI 510543	Peru
73	PI 510545	Peru
74	PI 510546	Peru
75	PI 510546	Peru
76	PI 510546	Peru
77	PI 510547	Peru
78	PI 510549	Peru
79	PI 510550	Peru
80	PI 510550	Peru
81	PI 510550	Peru
82	PI 510551	Peru
83	PI 584524	Chile
84	PI 587173	Argentina
85	PI 596498	Peru
86	PI 596498	Peru
87	PI 614002	Bolivia
88	PI 614002	Bolivia
89	PI 614880	Chile
90	PI 614881	Argentina
91	PI 614882	Chile
92	PI 614883	Argentina
93	PI 614884	Argentina
94	PI 614885	Chile
95	PI 614886	Chile
96	PI 614887	Chile
97	PI 614888	Chile
98	PI 614889	Chile
99	PI 614903	Bolivia
100	PI 614903	Bolivia
101	PI 614906	Bolivia
102	PI 614907	Bolivia
103	PI 614908	Bolivia
104	PI 614915	Bolivia

Supplementary Table 1 (Continued)

Sample number	Accession number	Country
105	PI 614917	Bolivia
106	PI 614917	Bolivia
107	PI 614919	Bolivia
108	PI 614920	Bolivia
109	PI 614921	Bolivia
110	PI 614924	Bolivia
111	PI 614925	Bolivia
112	PI 614926	Bolivia
113	PI 614927	Bolivia
114	PI 614928	Bolivia
115	PI 614935	Bolivia
116	PI 614937	Bolivia
117	PI 614938	Bolivia
118	PI 634917	Chile
119	PI 634918	Chile
120	PI 634919	Chile
121	PI 634921	Chile
122	PI 634922	Chile
123	PI 634923	Chile
124	PI 634925	Chile
125	PI 634079	Chile
126	PI 665273	Bolivia
127	PI 665274	Bolivia
128	PI 665276	Bolivia
129	PI 665277	Bolivia
130	PI 665278	Bolivia
131	PI 665278	Bolivia
132	PI 665283	USA
133	PI 674266	Ecuador
134	PI 510545	Peru
135	PI 510545	Peru

Supplementary Table 2 Classification of 135 quinoa samples revealed using STRUCTURE analysis

Sample	Inferred ancestry of individual sample		Subpopulation assigned	Country
	Subpopulation I	Subpopulation II		
1	0.968	0.032	Subpopulation I	USA
2	0.971	0.029	Subpopulation I	USA
3	0.963	0.037	Subpopulation I	USA
4	0.918	0.082	Subpopulation I	USA
5	0.975	0.025	Subpopulation I	USA
6	0.961	0.039	Subpopulation I	USA
7	0.296	0.704	Subpopulation II	USA
8	0.912	0.088	Subpopulation I	USA
9	0.959	0.041	Subpopulation I	USA
10	0.898	0.102	Subpopulation I	USA
11	0.973	0.027	Subpopulation I	USA
12	0.947	0.053	Subpopulation I	USA
13	0.972	0.028	Subpopulation I	USA
14	0.97	0.03	Subpopulation I	USA
15	0.974	0.026	Subpopulation I	USA
16	0.877	0.123	Subpopulation I	USA
17	0.972	0.028	Subpopulation I	USA
18	0.954	0.046	Subpopulation I	USA
19	0.956	0.044	Subpopulation I	USA
20	0.937	0.063	Subpopulation I	USA
21	0.936	0.064	Subpopulation I	USA
22	0.956	0.044	Subpopulation I	USA
23	0.872	0.128	Subpopulation I	USA
24	0.972	0.028	Subpopulation I	USA
25	0.972	0.028	Subpopulation I	USA

Supplementary Table 2 (Continued)

Sample	Inferred ancestry of individual sample		Subpopulation assigned	Country
	Subpopulation I	Subpopulation II		
26	0.928	0.072	Subpopulation I	USA
27	0.952	0.048	Subpopulation I	Bolivia
28	0.956	0.044	Subpopulation I	USA
29	0.285	0.715	Subpopulation II	USA
30	0.962	0.038	Subpopulation I	USA
31	0.936	0.064	Subpopulation I	USA
32	0.935	0.065	Subpopulation I	USA
33	0.97	0.03	Subpopulation I	USA
34	0.971	0.029	Subpopulation I	USA
35	0.459	0.541	Subpopulation II	USA
36	0.92	0.08	Subpopulation I	USA
37	0.91	0.09	Subpopulation I	USA
38	0.863	0.137	Subpopulation I	USA
39	0.759	0.241	Subpopulation I	USA
40	0.971	0.029	Subpopulation I	USA
41	0.972	0.028	Subpopulation I	USA
42	0.972	0.028	Subpopulation I	USA
43	0.971	0.029	Subpopulation I	USA
44	0.972	0.028	Subpopulation I	USA
45	0.972	0.028	Subpopulation I	USA
46	0.973	0.027	Subpopulation I	USA
47	0.919	0.081	Subpopulation I	Chile
48	0.614	0.386	Subpopulation I	Mexico
49	0.949	0.051	Subpopulation I	Mexico
50	0.489	0.511	Subpopulation II	Bolivia
51	0.135	0.865	Subpopulation II	Bolivia
52	0.665	0.335	Subpopulation I	Bolivia
53	0.952	0.048	Subpopulation I	Bolivia
54	0.845	0.155	Subpopulation I	Bolivia
55	0.838	0.162	Subpopulation I	Peru
56	0.496	0.504	Subpopulation II	Peru
57	0.953	0.047	Subpopulation I	Peru
58	0.532	0.468	Subpopulation I	Peru
59	0.501	0.499	Subpopulation I	Peru
60	0.934	0.066	Subpopulation I	Peru
61	0.288	0.712	Subpopulation II	Peru
62	0.833	0.167	Subpopulation I	Peru
63	0.269	0.731	Subpopulation II	Peru
64	0.929	0.071	Subpopulation I	Peru
65	0.945	0.055	Subpopulation I	Peru
66	0.953	0.047	Subpopulation I	Peru
67	0.603	0.397	Subpopulation I	Peru
68	0.856	0.144	Subpopulation I	Peru
69	0.822	0.178	Subpopulation I	Peru
70	0.772	0.228	Subpopulation I	Peru
71	0.602	0.398	Subpopulation I	Peru
72	0.404	0.596	Subpopulation II	Peru
73	0.107	0.893	Subpopulation II	Peru

Supplementary Table 2 (Continued)

Sample	Inferred ancestry of individual sample		Subpopulation assigned	Country
	Subpopulation I	Subpopulation II		
74	0.685	0.315	Subpopulation I	Peru
75	0.893	0.107	Subpopulation I	Peru
76	0.963	0.037	Subpopulation I	Peru
77	0.933	0.067	Subpopulation I	Peru
78	0.523	0.477	Subpopulation I	Peru
79	0.735	0.265	Subpopulation I	Peru
80	0.875	0.125	Subpopulation I	Peru
81	0.843	0.157	Subpopulation I	Peru
82	0.83	0.17	Subpopulation I	Peru
83	0.94	0.06	Subpopulation I	Chile
84	0.927	0.073	Subpopulation I	Argentina
85	0.868	0.132	Subpopulation I	Peru
86	0.926	0.074	Subpopulation I	Peru
87	0.342	0.658	Subpopulation II	Bolivia
88	0.226	0.774	Subpopulation II	Bolivia
89	0.018	0.982	Subpopulation II	Chile
90	0.714	0.286	Subpopulation I	Argentina
91	0.962	0.038	Subpopulation I	Chile
92	0.973	0.027	Subpopulation I	Argentina
93	0.785	0.215	Subpopulation I	Argentina
94	0.962	0.038	Subpopulation I	Chile
95	0.968	0.032	Subpopulation I	Chile
96	0.898	0.102	Subpopulation I	Chile
97	0.045	0.955	Subpopulation I	Chile
98	0.417	0.583	Subpopulation II	Chile
99	0.04	0.96	Subpopulation II	Bolivia
100	0.055	0.945	Subpopulation II	Bolivia
101	0.091	0.909	Subpopulation II	Bolivia
102	0.056	0.944	Subpopulation II	Bolivia
103	0.242	0.758	Subpopulation II	Bolivia
104	0.734	0.266	Subpopulation I	Bolivia
105	0.057	0.943	Subpopulation II	Bolivia
106	0.457	0.543	Subpopulation II	Bolivia
107	0.191	0.809	Subpopulation II	Bolivia
108	0.285	0.715	Subpopulation II	Bolivia
109	0.039	0.961	Subpopulation II	Bolivia
110	0.034	0.966	Subpopulation II	Bolivia
111	0.231	0.769	Subpopulation II	Bolivia
112	0.032	0.968	Subpopulation II	Bolivia
113	0.31	0.69	Subpopulation II	Bolivia
114	0.025	0.975	Subpopulation II	Bolivia
115	0.125	0.875	Subpopulation II	Bolivia
116	0.081	0.919	Subpopulation II	Bolivia
117	0.027	0.973	Subpopulation II	Bolivia
118	0.08	0.92	Subpopulation II	Chile
119	0.103	0.897	Subpopulation II	Chile
120	0.052	0.948	Subpopulation II	Chile
121	0.081	0.919	Subpopulation II	Chile

Supplementary Table 2 (Continued)

Sample	Inferred ancestry of individual sample		Subpopulation assigned	Country
	Subpopulation I	Subpopulation II		
122	0.1	0.9	Subpopulation II	Chile
123	0.037	0.963	Subpopulation II	Chile
124	0.049	0.951	Subpopulation II	Chile
125	0.109	0.891	Subpopulation II	Chile
126	0.063	0.937	Subpopulation II	Bolivia
127	0.039	0.961	Subpopulation II	Bolivia
128	0.025	0.975	Subpopulation II	Bolivia
129	0.018	0.982	Subpopulation II	Bolivia
130	0.08	0.92	Subpopulation II	Bolivia
131	0.129	0.871	Subpopulation II	Bolivia
132	0.023	0.977	Subpopulation II	USA
133	0.025	0.975	Subpopulation II	Ecuador
134	0.042	0.958	Subpopulation II	Peru
135	0.029	0.971	Subpopulation II	Peru