

Table S1 List of the 407 flax accessions sorted according to the neighbour-joining tree

Number	Canadian number	Sub-group
120	CN97605	Western Europe
261	CN100837	Western Europe
274	CN100910	Western Europe
266	CN100852	Western Europe
272	CN100885	Western Europe
65	CN97147	Western Europe
368	CN101554	Western Europe
361	CN101496	Western Europe
269	CN100881	Western Europe
270	CN100883	Western Europe
199	CN98535	Western Europe
70	CN97238	Western Europe
219	CN98741	Western Europe
184	CN98278	Western Europe
46	CN96911	Western Europe
217	CN98733	Western Europe
218	CN98734	Western Europe
371	CN101565	Western Europe
216	CN98712	Western Europe
222	CN98753	Western Europe
375	CN101595	Western Europe
170	CN98192	Western Europe
171	CN98193	Western Europe
223	CN98767	Western Europe
114	CN97571	Western Europe
262	CN100838	Western Europe
77	CN97321	Western Europe
185	CN98279	Western Europe
304	CN101265	Western Europe
248	CN100674	Western Europe
71	CN97287	Western Europe
275	CN100928	Western Europe
280	CN101026	Western Europe
197	CN98475	Western Europe
235	CN98923	Western Europe
187	CN98303	Western Europe
388	CrepitamTabor	Western Europe
320	CN101338	South Asia
66	CN97153	South Asia
325	CN101373	South Asia
168	CN98165	South Asia
48	CN96962	South Asia
256	CN100799	South Asia
62	CN97129	South Asia

260	CN100828	South Asia
63	CN97129B	South Asia
378	CN101600	South Asia
257	CN100805	South Asia
263	CN100841	South Asia
252	CN100790	South Asia
45	CN96846	South Asia
259	CN100827	South Asia
314	CN101310	South Asia
169	CN98176	South Asia
198	CN98505	South Asia
233	CN98869	South Asia
20	CN19007	South Asia
53	CN97004	South Asia
51	CN96991	South Asia
52	CN96992	South Asia
358	CN101482	South Asia
50	CN96988	South Asia
356	CN101471	South Asia
357	CN101472	South Asia
44	CN96845	South Asia
85	CN97393	South Asia
299	CN101208	South Asia
76	CN97312	South Asia
74	CN97307	South Asia
75	CN97308	South Asia
204	CN98566C	South Asia
202	CN98566	South Asia
203	CN98566B	South Asia
73	CN97306	South Asia
167	CN98157	South Asia
205	CN98569	South Asia
61	CN97103	South Asia
59	CN97092	South Asia
60	CN97096	South Asia
200	CN98541	South Asia
207	CN98613	South Asia
206	CN98610	South Asia
376	CN101596	South Asia
244	CN98982	South Asia
364	CN101535	South Asia
365	CN101536	South Asia
366	CN101539	South Asia
195	CN98467	South Asia
196	CN98468	South Asia
194	CN98440	South Asia
47	CN96958	South Asia

174	CN98239	South Asia
247	CN100629	South Asia
58	CN97083	South Asia
54	CN97050	South Asia
362	CN101510	South Asia
363	CN101511	South Asia
178	CN98250	South Asia
56	CN97064	South Asia
55	CN97056	South Asia
188	CN98363	South Asia
180	CN98263	South Asia
181	CN98263B	South Asia
57	CN97072	South Asia
67	CN97176	South Asia
49	CN96974	South Asia
360	CN101493	South Asia
173	CN98237	South Asia
232	CN98854	South Asia
249	CN100678	South Asia
354	CN101466	South Asia
165	CN98135	South Asia
191	CN98397	South Asia
189	CN98364	South Asia
64	CN97139	South Asia
193	CN98415	South Asia
161	CN98057	South Asia
241	CN98969	South Asia
164	CN98109	South Asia
367	CN101542	South Asia
192	CN98398	South Asia
242	CN98973	South Asia
179	CN98254	South Asia
243	CN98974	South Asia
190	CN98370	South Asia
177	CN98242	South Asia
240	CN98961	South Asia
175	CN98240	South Asia
176	CN98240B	South Asia
377	CN101598	South America
12	CN18993	South America
403	UGG102-2	South America
389	DoubleLow	South America
404	UGG146-1	South America
151	CN97980	South America
152	CN98007	South America
118	CN97587	South America
156	CN98037	South America

157	CN98037B	South America
150	CN97967	South America
158	CN98039	South America
149	CN97961	South America
147	CN97953	South America
148	CN97958	South America
212	CN98689	South America
124	CN97633	South America
208	CN98634	South America
163	CN98100	South America
95	CN97430	South America
96	CN97430B	South America
353	CN101463	South America
153	CN98012	South America
155	CN98027	South America
209	CN98639	North America-Europe
210	CN98644	North America-Europe
182	CN98275	North America-Europe
183	CN98276	North America-Europe
245	CN98984	North America-Europe
224	CN98773	North America-Europe
117	CN97586	North America-Europe
221	CN98752	North America-Europe
374	CN101594	North America-Europe
373	CN101580	North America-Europe
82	CN97366	North America-Europe
254	CN100797	North America-Europe
255	CN100797B	North America-Europe
213	CN98704	North America-Europe
25	CN19160	North America-Europe
69	CN97214	North America-Europe
130	CN97670	North America-Europe
144	CN97890	North America-Europe
145	CN97907	North America-Europe
201	CN98542	North America-Europe
172	CN98231	North America-Europe
359	CN101486	North America-Europe
258	CN100807	North America-Europe
279	CN101016	North America-Europe
319	CN101332	North America-Europe
379	CN101610	North America-Europe
295	CN101132	North America-Europe
305	CN101279	North America-Europe
338	CN101402	North America-Europe
26	CN30860	North America-Europe
27	CN30861	North America-Europe
226	CN98806	North America-Europe

227	CN98807	North America-Europe
214	CN98708	North America-Europe
372	CN101572	North America-Europe
268	CN100864	North America-Europe
68	CN97180	North America-Europe
24	CN19159	North America-Europe
355	CN101469	North America-Europe
72	CN97300	North America-Europe
80	CN97350	North America-Europe
154	CN98014	North America-Europe
220	CN98742	North America-Europe
134	CN97689	North America
140	CN97871	North America
265	CN100851	North America
271	CN100884	North America
297	CN101137	North America
312	CN101307	North America
352	CN101461	North America
370	CN101560	North America
228	CN98812	North America
277	CN100939	North America
324	CN101367	North America
139	CN97768	North America
133	CN97679B	North America
132	CN97679	North America
142	CN97881	North America
79	CN97341	North America
93	CN97407	North America
100	CN97458	North America
225	CN98794	North America
131	CN97671	North America
38	CN33400	North America
17	CN19003	North America
141	CN97873	North America
32	CN33388	North America
10	CN18989	North America
33	CN33389	North America
251	CN100785	North America
39	CN33992	North America
1	CN18973	North America
399	PrairieGrande	North America
400	PrairieThunder	North America
383	Shape	North America
382	Macbeth	North America
391	FP2214	North America
18	CN19004	North America
384	CDCSorrel	North America

344	CN101413	North America
4	CN18981	North America
19	CN19005	North America
30	CN33385	North America
3	CN18980	North America
43	CN52732	North America
21	CN19017	North America
28	CN32542	North America
250	CN100770	North America
78	CN97334	North America
135	CN97718	North America
137	CN97740	North America
329	CN101382	North America
136	CN97728	North America
138	CN97749	North America
146	CN97921	North America
229	CN98821	North America
127	CN97642	North America
37	CN33399	North America
395	Lirina	North America
331	CN101386	North America
13	CN18994	North America
36	CN33397	North America
392	FP2270	North America
386	CDCBethune	North America
387	CDCMons	North America
2	CN18979	North America
398	PrairieBlue	North America
396	M5791	North America
405	UGG5-5	North America
393	G1186-94	North America
402	S95407	North America
41	CN37286	North America
381	CDCGold	North America
407	YSED18	North America
380	Linola989	North America
401	SP2047	North America
394	Hanley	North America
390	E1747	North America
397	M96006	North America
323	CN101366	Eastern Europe
330	CN101385	Eastern Europe
98	CN97452	Eastern Europe
273	CN100895B	Eastern Europe
326	CN101375	Eastern Europe
84	CN97392	Eastern Europe
315	CN101325	Eastern Europe

318	CN101331	Eastern Europe
186	CN98286	Eastern Europe
122	CN97613	Eastern Europe
278	CN100952	Eastern Europe
246	CN100547	Eastern Europe
31	CN33386	Eastern Europe
385	Atlas	Eastern Europe
81	CN97351	Eastern Europe
336	CN101397	Eastern Europe
119	CN97604	Eastern Europe
92	CN97406	Eastern Europe
328	CN101379	Eastern Europe
316	CN101327	Eastern Europe
321	CN101348	Eastern Europe
104	CN97483	Eastern Europe
128	CN97649	Eastern Europe
327	CN101378	Eastern Europe
83	CN97377	Eastern Europe
313	CN101308	Eastern Europe
87	CN97397	Eastern Europe
89	CN97403	Eastern Europe
99	CN97453	Eastern Europe
125	CN97639	Eastern Europe
126	CN97639B	Eastern Europe
86	CN97396	Eastern Europe
88	CN97402	Eastern Europe
90	CN97404	Eastern Europe
91	CN97404B	Eastern Europe
215	CN98710	Eastern Europe
237	CN98934	North America
306	CN101286	North America
350	CN101451	North America
22	CN19157	North America
267	CN100863	North America
349	CN101448	North America
94	CN97424	North America
369	CN101559	North America
236	CN98926	North America
239	CN98954	North America
211	CN98683	North America
238	CN98946	North America
162	CN98072	North America
23	CN19158	North America
264	CN100848	North America
351	CN101454	North America
115	CN97584	North America
116	CN97584B	North America

231	CN98829	North America
302	CN101240	Eastern Europe
105	CN97484	Eastern Europe
343	CN101407	Eastern Europe
110	CN97529	Eastern Europe
121	CN97610	Eastern Europe
111	CN97530	Eastern Europe
253	CN100795	Eastern Europe
109	CN97520	Eastern Europe
123	CN97616	Eastern Europe
97	CN97444	Eastern Europe
101	CN97463	Eastern Europe
230	CN98826	Eastern Europe
106	CN97487	Eastern Europe
107	CN97489	Eastern Europe
113	CN97533	Eastern Europe
108	CN97503	Eastern Europe
129	CN97665	Eastern Europe
143	CN97886	Eastern Europe
322	CN101364	Eastern Europe
112	CN97531	Eastern Europe
102	CN97470	Eastern Europe
103	CN97475	Eastern Europe
234	CN98903	Eastern Europe
159	CN98056	Eastern Europe
160	CN98056B	Eastern Europe
166	CN98150	Eastern Europe
301	CN101237	Eastern Europe
332	CN101392	Eastern Europe
283	CN101052	Eastern Europe
284	CN101053	Eastern Europe
7	CN18986	Eastern Europe
406	Viking(European)	Eastern Europe
8	CN18987	Eastern Europe
5	CN18982	Eastern Europe
9	CN18988	Eastern Europe
341	CN101405	Eastern Europe
298	CN101154	Eastern Europe
293	CN101119	Eastern Europe
35	CN33393	Eastern Europe
276	CN100929	Eastern Europe
6	CN18983	Eastern Europe
11	CN18991	Eastern Europe
16	CN19001	Eastern Europe
15	CN18998	Eastern Europe
34	CN33390	Eastern Europe
42	CN40081	Eastern Europe

339	CN101403	Eastern Europe
317	CN101329	Eastern Europe
340	CN101404	Eastern Europe
29	CN32546	Eastern Europe
296	CN101136	Eastern Europe
14	CN18997	Eastern Europe
307	CN101289	Eastern Europe
285	CN101055	Eastern Europe
40	CN35791	Eastern Europe
310	CN101299	Eastern Europe
342	CN101406	Eastern Europe
348	CN101421	Eastern Europe
345	CN101416	Eastern Europe
347	CN101419	Eastern Europe
300	CN101230	Eastern Europe
346	CN101417	Eastern Europe
281	CN101038	Eastern Europe
286	CN101094	Eastern Europe
291	CN101116	Eastern Europe
337	CN101401	Eastern Europe
292	CN101118	Eastern Europe
333	CN101394	Eastern Europe
287	CN101096	Eastern Europe
288	CN101099	Eastern Europe
309	CN101298	Eastern Europe
311	CN101301	Eastern Europe
282	CN101039	Eastern Europe
294	CN101127	Eastern Europe
335	CN101396	Eastern Europe
334	CN101395	Eastern Europe
308	CN101296	Eastern Europe
290	CN101115	Eastern Europe
289	CN101114	Eastern Europe
303	CN101241	Eastern Europe