

Supplementary Table 1. List of 231 *P. tritici-repentis* isolates received from Latvia (LV), Lithuania (LT), Romania (RO) and analyzed for their phenotypic and genotypic race characterization

No	Isolate	Race	<i>Ptr ToxA</i>	<i>Ptr ToxB</i>	<i>MT^a</i>
1	13-LT-1-1	1	+	-	+
2	13-LT-2-1	1	+	-	+
3	13-LT-3-1	1	+	-	+
4	13-LT-4-1	1	+	-	+
5	13-LT-5-1	1	+	-	+
6	13-LT-1-2	1	+	-	+
7	13-LT-2-2	1	+	-	+
8	13-LT-3-2	<i>Nec+chl+</i>	-	-	+
9	13-LT-4-3	1	+	-	+
10	13-LT-5-3	1	+	-	+
11	13-LT-6-3	3	-	-	+
12	13-LT-1-4	1	+	-	+
13	13-LT-1-3	1	+	-	+
14	13-LT-2-3	1	+	-	+
15	13-LT-3-3	1	+	-	+
16	13-LT-2-4	1	+	-	+
17	13-LT-3-4	1	+	-	+
18	13-LT-4-4	1	+	-	+
19	13-LT-5-4	1	+	-	+
20	13-LT-6-4	<i>Nec+chl+</i>	-	-	+
21	13-LT-1-13	1	+	-	+
22	13-LT-2-5	1	+	-	+
23	13-LT-2-15	<i>Nec+chl+</i>	-	-	+
24	13-LT-3-5	1	+	-	+
25	13-LT-4-5	1	+	-	+
26	13-LT-5-5	1	+	-	+

27	13-LT-6-5	3	-	-	+
28	13-LT-1-5	1	+	-	+
29	13-LT-1-6	1	+	-	+
30	13-LT-1-7	1	+	-	+
31	13-LT-1-8	3	+	-	+
32	13-LT-1-9	1	+	-	+
33	13LT-1-10	1	+	-	+
34	13-LT-1-11	2	+	-	+
35	13-LT-1-12	3	-	-	+
36	13-LT-1-13	1	+	-	+
37	13-LT-1-14	1	+	-	+
38	13-LT-2-6	1	+	-	+
39	13-LT-2-7	1	+	-	+
40	13-LT-2-8	4	-	-	+
41	13-LT-2-9	*	+	-	+
42	13-LT-2-10	<i>Nec+chl+</i>	-	-	+
43	13-LT-2-11	3	-	-	+
44	13-LT-2-12	<i>Nec+chl+</i>	-	-	+
45	13-LT-2-13	1	+	-	+
46	13-LT-2-14	<i>Nec+chl+</i>	-	-	+
47	13-LT-2-15	<i>Nec+chl+</i>	-	-	+
48	13-LT-2-16	<i>Nec+chl+</i>	-	-	+
49	13-LT-3-6	3	-	-	+
50	13-LT-3-7	3	-	-	+
51	13-LT-3-8	*	+	-	+
52	13-LT-3-9	<i>Nec+chl+</i>	-	-	+
53	13-LT-3-10	*	+	-	+

54	13-LT-3-11	<i>Nec+chl+</i>	-	-	+
55	13-LT-3-12	<i>Nec+chl+</i>	-	-	+
56	13-LT-3-13	*	+	-	+
57	13-LT-3-14	3	-	-	+
58	13-LT-3-15	4	-	-	+
59	13-LT-3-16	*	+	-	+
60	13-LT-3-17	1	+	-	+
61	13-LT-3-18	*	+	-	+
62	13-LT-3-19	*	+	-	+
63	13-LT-3-20	*	+	-	+
64	13-LT-3-21	3	-	-	+
65	13-LT-3-22	*	+	-	+
66	13-LT-3-23	3	-	-	+
67	13-LT-3-24	*	+	-	+
68	13-LT-3-25	3	-	-	+
69	13-LT4-2	4	-	-	+
70	13-LT4-6	3	-	-	+
71	13-LT4-7	1	+	-	+
72	13-LT4-8	*	+	-	+
73	13-LT4-9	<i>Nec+chl+</i>	-	-	+
74	13-LT4-10	<i>Nec+chl+</i>	-	-	+
75	13-LT4-11	<i>Nec+chl+</i>	-	-	+
76	13-LT-4-12	*	+	-	+
77	13-LT-4-13	*	+	-	+
78	13-LT-4-14	<i>Nec+chl+</i>	-	-	+
79	13-LT-4-15	<i>Nec+chl+</i>	-	-	+
80	13-LT-5-2	*	+	-	+

81	13-LT-5-6	1	+	-	+
82	13-LT-5-7	*	+	-	+
83	13-LT-5-8	*	+	-	+
84	13-LT-5-9	1	+	-	+
85	13-LT-5-10	*	+	-	+
86	13-LT-5-11	*	+	-	+
87	13-LT-5-12	*	+	-	+
88	13-LT-5-13	*	+	-	+
89	13-LT-5-14	<i>Nec+chl+</i>	-	-	+
90	13-LT-5-15	*	+	-	+
91	13-LT-6-2	*	+	-	+
92	13-LT-4-11	*	-	-	+
93	13-LT-4-12	3	-	-	+
94	13-LT-4-13	*	+	-	+
95	13-LT-4-14	4	-	-	+
96	13-LT-4-15	4	-	-	+
97	13-LT-5-2	*	+	-	+
98	13-LT-6-6	*	+	-	+
99	13-LT-6-7	4	-	-	+
100	13-LT-6-8	*	+	-	+
101	13-LT-6-9	*	+	-	+
102	13-LT-6-10	*	+	-	+
103	13-LT-6-11	3	-	-	+
104	13-LT-6-12	*	+	-	+
105	13-LT-6-13	*	+	-	+
106	13-LT-6-14	*	+	-	+
107	13-LT-6-15	3	-	-	+

108	14-Ro-1-1	1	+	-	+
109	14-Ro-1-2	2	+	-	+
110	14-Ro-1-3	1	+	-	+
111	14-Ro-1-4	1	+	-	+
112	14-Ro-1-5	1	+	-	+
113	14-Ro-1-6	*	+	-	+
114	14-Ro-1-7	1	+	-	+
115	14-Ro-1-8	2	+	-	+
116	14-Ro-1-9	1	+	-	+
117	14-Ro-1-10	1	+	-	+
118	14-Ro-1-11	2	+	-	+
119	14-Ro-1-12	*	+	-	+
120	14-Ro-1-13	*	+	-	+
121	14-Ro-1-14	*	+	-	+
122	14-Ro-1-15	*	+	-	+
123	14-Ro-1-16	*	+	-	+
124	14-Ro-1-17	*	+	-	+
125	14-Ro-1-18	*	+	-	+
126	14-Ro-1-19	*	+	-	+
127	14-Ro-1-20	*	+	-	+
128	14-Ro-2-1	*	+	-	+
129	14-Ro-2-2	*	+	-	+
130	14-Ro-2-3	1	+	-	+
131	14-Ro-2-4	1	+	-	+
132	14-Ro-2-6	1	+	-	+
133	14-Ro-2-7	*	+	-	+
134	14-Ro-2-8	*	+	-	+

135	14-Ro-2-9	*	+	-	+
136	14-Ro-2-10	*	+	-	+
137	14-Ro-2-11	*	+	-	+
138	14-Ro-2-12	*	+	-	+
139	14-Ro-3-1	*	+	-	+
140	14-Ro-3-2	1	+	-	+
141	14-Ro-3-3	1	+	-	+
142	14-Ro-3-4	1	+	-	+
143	14-Ro-3-5	*	+	-	+
144	14-Ro-3-6	1	+	-	+
145	14-Ro-3-7	2	+	-	+
146	14-Ro-3-8	1	+	-	+
147	14-Ro-3-9	*	+	-	+
148	14-Ro-3-10	*	+	-	+
149	14-Ro-3-11	1	+	-	+
150	14-Ro-3-13	2	+	-	+
151	14-Ro-3-14	*	+	-	+
152	14-Ro-3-15	*	+	-	+
153	14-Ro-3-16	*	+	-	+
154	14-Ro-3-17	*	+	-	+
155	14-Ro-3-18	*	+	-	+
156	14-Ro-3-19	*	+	-	+
157	14-Ro-3-20	*	+	-	+
158	14-Ro-3-21	*	+	-	+
159	14-Ro-3-22	*	+	-	+
160	14-Ro-3-23	*	+	-	+
161	14-Ro-3-24	*	+	-	+

162	14-Ro-3-25	*	+	-	+
163	14-Ro-3-26	1	+	-	+
164	14-Ro-3-27	*	+	-	+
165	14-Ro-3-28	*	+	-	+
166	14-Ro-3-29	*	+	-	+
167	14-Ro-3-30	*	+	-	+
168	14-Ro-4-1	2	+	-	+
169	14-Ro-4-2	1	+	-	+
170	14-Ro-4-3	1	+	-	+
171	14-Ro-4-4	*	+	-	+
172	14-Ro-5-1	*	+	-	+
173	14-Ro-5-2	1	+	-	+
174	14-Ro-5-4	1	+	-	+
175	14-Ro-5-5	1	+	-	+
176	14-Ro-5-6	1	+	-	+
177	14-Ro-5-7	1	+	-	+
178	14-Ro-5-8	1	+	-	+
179	14-Ro-5-9	2	+	-	+
180	14-Ro-5-11	1	+	-	+
181	14-Ro-5-13	1	+	-	+
182	14-Ro-5-14	1	+	-	+
183	14-Ro-5-15	*	+	-	+
184	14-Ro-5-16	*	+	-	+
185	14-Ro-5-17	1	+	-	+
186	14-Ro-5-18	2	+	-	+
187	14-Ro-5-19	*	+	-	+
188	14-Ro-5-20	*	+	-	+

189	14-Ro-5-21	*	+	-	+
190	14-Ro-5-22	*	+	-	+
191	14-Ro-5-23	<i>Nec+chl-</i>	-	-	+
192	14-Ro-5-24	*	+	-	+
193	14-Ro-5-25	1	+	-	+
194	14-Ro-5-26	*	+	-	+
195	14-Ro-5-27	*	+	-	+
196	14-Ro-5-28	*	+	-	+
197	14-Ro-5-29	*	+	-	+
198	14-Ro-5-30	*	+	-	+
199	14-Ro-5-31	4	-	-	+
200	14-Ro-5-32	*	+	-	+
201	14-Ro-5-33	*	+	-	+
202	14-Ro-6-1	*	+	-	+
203	14-Ro-6-2	1	+	-	+
204	14-Ro-6-3	1	+	-	+
205	14-Ro-6-4	1	+	-	+
206	14-Ro-6-5	1	+	-	+
207	14-Ro-6-6	1	+	-	+
208	14-Ro-6-7	1	+	-	+
209	14-Ro-6-8	1	+	-	+
210	14-Ro-6-9	1	+	-	+
211	14-Ro-6-10	1	+	-	+
212	14-Ro-6-11	1	+	-	+
213	14-Ro-6-12	1	+	-	+
214	14-Ro-6-13	1	+	-	+
215	14-Ro-6-14	1	+	-	+

216	14-Ro-6-15	2	+	-	+
217	14-LV-1	*	+	-	+
218	14-LV-2	1	+	-	+
219	14-LV-3	1	+	-	+
220	14-LV-4	1	+	-	+
221	14-LV-5	1	+	-	+
222	14-LV-6	*	+	-	+
223	14-LV-7	*	+	-	+
224	14-LV-8	Race 1	+	-	+
225	14-LV-9	Race 1	+	-	+
226	14-LV-10	Race 1	+	-	+
227	14-LV-11	*	+	-	+
228	14-LV-12	Race 2	+	-	+
229	14-LV-13	Race 1	+	-	+
230	14-LV-14	*	+	-	+
231	14-LV-15	Race 1	+	-	+

Nec+Chl+ = Isolates lack in *Ptr ToxA* gene but produce necrosis on *Ptr ToxA* sensitive wheat differential Glenlea and chlorosis on *Ptr ToxC* sensitive differential 6B365;
Nec+Chl- = Isolates lack in *Ptr ToxA* gene but produce necrosis on *Ptr ToxA* sensitive wheat differential Glenlea; ^a = *P. tritici-repentis* specific mating gene was amplified; * = Isolates were not race characterized on tan spot wheat differentials set; + = *Ptr ToxA/ToxB/mating* type gene present and - = *Ptr ToxA/ToxB/mating* type gene not present.

Supplementary Table 2. Genotypic characterization of 231 *P. tritici-repentis* isolates recovered from wheat for *Ptr ToxA* and *Ptr ToxB* genes from Latvia, Lithuania, and Romania

Country	Isolates tested	<i>Ptr ToxA</i> +	<i>Ptr ToxB</i> +	<i>Ptr ToxA</i> - and <i>ToxB</i> -
Latvia	15	15	0	0
Lithuania	107	69	0	38
Romania	109	107	0	2
Total	231	191	0	40

+ = Toxin gene present; - = Toxin gene absent

Supplementary Table 3. Phenotypic race characterization of 139 *P. tritici-repentis* isolates recovered from wheat collected in Latvia, Lithuania, and Romania

Country	Isolates tested	Race 1	Race 2	Race 3	Race 4	Unknown ^a	Unknown ^b
Latvia	10	9	1	0	0	0	0
Lithuania	75	36	1	15	6	17	
Romania	54	43	9	0	1	0	1
Total	139	88	11	15	7	17	1

^a = *P. tritici-repentis* isolate(s) lacks in *Ptr ToxA* gene but behave like race 1; b = *P.*

tritici-repentis isolate lack in *ToxA* gene but behaves like race 2.