

Table S1. Binomial designation and avirulence/virulence formula of pathotypes of leaf rust (*P. trit-icina*) used in the study.

S. No.	Pathotypes Designation		Avirulence/ Virulence formula
	Old	New	
1.	12-3	49R37	<i>Lr1,2a, 9,10,13,18,19,20,23,24,28 / Lr2c,3a,14a,15,17,26</i>
2.	12-4	69R13	<i>Lr1,2a, 9,13,15,17,19,23,24,26,28 / Lr2c,3a,10,14a,18,20</i>
3.	12-5	29R45	<i>Lr1,2a, 9,10,15,19,23,24,28 / Lr2c,3a,13,14a,17,18,20,26</i>
4.	12-9	93R37	<i>Lr1,2a, 9,15,19,20,23,24,28 / Lr2c,3a,10,13,14a,17,18,26</i>
5.	77-1	109R63	<i>Lr9,17,19,23,24,28 / Lr1,2a,2c,3a,10,13,14a,15,18,20,26</i>
6.	77-2	109R31-1	<i>Lr9,17,19,24,26,28 / Lr1,2a,2c,3a,10,13,14a,15,18,20,23</i>
7.	77-3	125R55	<i>Lr9,19,20,23,24,28 / Lr1,2a,2c,3a,10,13,14a,15,17,18,26</i>
8.	77-4	125R23-1	<i>Lr9,19,20,24,26,28 / Lr1,2a,2c,3a,10,13,14a,15,17,18,23</i>
9.	77-5	121R63-1	<i>Lr9,18,19,24,28 / Lr1,2a,2c,3a,10,13,14a,15,17,20,23,26</i>
10.	77-6	121R55-1	<i>Lr9,18,19,20,24,28 / Lr1,2a,2c,3a,10,13,14a,15,17,23,26</i>
11.	77-9	121R60-1	<i>Lr2a,2c,9,18,19,24,28 / Lr1,3a,10,13,14a,15,17,20,23,26</i>
12.	77-10	377R60-1	<i>Lr2a,2c, 9,18,19,24/ Lr1,3a,10,13,14a,15,17,20,23,26,28</i>
13.	77A-1	109R23	<i>Lr9,17,19,20,23,24,26,28 / Lr1,2a,2c,3a,10,13,14a,15,18</i>
14.	104	17R23	<i>Lr9,10,13,15,18,19,20,23,24,26,28 / Lr1,2a,2c,3a,14a,17</i>
15.	104-2	21R55	<i>Lr9,10,13,15,19,20,23,24,28 / Lr1,2a,2c,3a,14a,17,18,26</i>
16.	107-1	45R35	<i>Lr1,3a,9,10,17,19,20,23,24,28 / Lr2a,2c,13,14a,15,18,26</i>
17.	108	13R27	<i>Lr3a,9,10,15,17,19,23,24,26,28 / Lr1,2a,2c,13,14a,18,20</i>
18.	162	93R7	<i>Lr1,9,15,19,20,23,24,26,28 / Lr2a,2c,3a,10,13,14a,17,18</i>
19.	162-1	93R47	<i>Lr1,9,15,19,23,24,28 / Lr2a,2c,3a,10,13,14a,17,18,20,26</i>