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Genetic variability among wheat (*Triticum aestivum* L.) germplasm for resistance to spot blotch disease

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Supplementary file

Table S1: Mean disease reaction of 150 wheat germplasm screened against *Bipolaris sorokiniana* in 2013 and 2014 (0-9 scale)

Genotype number	Genotype	2013 mean score	Disease reaction	Genotype number	Genotype	2014 mean score	Disease reaction	Genotype number	Genotype	combined mean score	Disease reaction
1	16HRWYT13	5	MS	1	16HRWYT13	3	R	1	16HRWYT13	4	MR
2	16HRWYT14	4	MR	2	16HRWYT14	3	R	2	16HRWYT14	4	MR
3	16HRWYT18	5	MS	3	16HRWYT18	3	R	3	16HRWYT18	4	MR
4	16HRWYT19	5	MS	4	16HRWYT19	3	R	4	16HRWYT19	4	MR
5	16HRWYT20	5	MS	5	16HRWYT20	7	S	5	16HRWYT20	6	MS
6	16HRWYT5	5	MS	6	16HRWYT5	3	R	6	16HRWYT5	4	MR
7	16HRWYT7	4	MR	7	16HRWYT7	3	R	7	16HRWYT7	4	MR
8	16HRWYT9	4	MR	8	16HRWYT9	7	S	8	16HRWYT9	6	MS
9	19HRWSN15	4	MR	9	19HRWSN15	3	R	9	19HRWSN15	4	MR
10	19HRWSN16	4	MR	10	19HRWSN16	7	S	10	19HRWSN16	6	MS
11	19HRWSN19	4	MR	11	19HRWSN19	7	S	11	19HRWSN19	6	MS
12	19HRWSN2	5	MS	12	19HRWSN2	7	S	12	19HRWSN2	6	MS
13	19HRWSN20	5	MS	13	19HRWSN20	7	S	13	19HRWSN20	6	MS
14	19HRWSN21	5	MS	14	19HRWSN21	3	R	14	19HRWSN21	4	MR
15	19HRWSN22	5	MS	15	19HRWSN22	7	S	15	19HRWSN22	6	MS
16	19HRWSN23	5	MS	16	19HRWSN23	7	S	16	19HRWSN23	6	MS
17	19HRWSN24	5	MS	17	19HRWSN24	3	R	17	19HRWSN24	4	MR
18	19HRWSN25	5	MS	18	19HRWSN25	7	S	18	19HRWSN25	6	MS
19	19HRWSN26	5	MS	19	19HRWSN26	7	S	19	19HRWSN26	6	MS
20	19HRWSN27	4	MR	20	19HRWSN27	7	S	20	19HRWSN27	6	MS
21	19HRWSN3	5	MS	21	19HRWSN3	7	S	21	19HRWSN3	6	MS
22	19HRWSN6	3	R	22	19HRWSN6	3	R	22	19HRWSN6	3	R
23	19HRWSN7	2	R	23	19HRWSN7	3	R	23	19HRWSN7	3	R

Table S1 continued

Genotype number	Genotype	2013 mean score	Disease reaction	Genotype number	Genotype	2014 mean score	Disease reaction	Genotype number	Genotype	Combined mean score	Disease reaction
24	20HRWYT10	5	MS	24	20HRWYT10	4	MR	24	20HRWYT10	5	MS
25	20HRWYT11	4	MR	25	20HRWYT11	7	S	25	20HRWYT11	6	MS
26	20HRWYT12	4	MR	26	20HRWYT12	7	S	26	20HRWYT12	6	MS
27	20HRWYT13	4	MR	27	20HRWYT13	4	MR	27	20HRWYT13	4	MR
28	20HRWYT14	5	MS	28	20HRWYT14	4	MR	28	20HRWYT14	5	MS
29	20HRWYT15	4	MR	29	20HRWYT15	7	S	29	20HRWYT15	6	MS
30	20HRWYT16	5	MS	30	20HRWYT16	4	MR	30	20HRWYT16	5	MS
31	20HRWYT17	5	MS	31	20HRWYT17	4	MR	31	20HRWYT17	5	MS
32	20HRWYT18	5	MS	32	20HRWYT18	7	S	32	20HRWYT18	6	MS
33	20HRWYT2	4	MR	33	20HRWYT2	4	MR	33	20HRWYT2	4	MR
34	20HRWYT20	5	MS	34	20HRWYT20	7	S	34	20HRWYT20	6	MS
35	20HRWYT21	5	MS	35	20HRWYT21	7	S	35	20HRWYT21	6	MS
36	20HRWYT22	5	MS	36	20HRWYT22	4	MR	36	20HRWYT22	5	MS
37	20HRWYT23	3	R	37	20HRWYT23	4	MR	37	20HRWYT23	4	MR
38	20HRWYT24	5	MS	38	20HRWYT24	4	MR	38	20HRWYT24	5	MS
39	20HRWYT25	4	MR	39	20HRWYT25	7	S	39	20HRWYT25	6	MS
40	20HRWYT26	5	MS	40	20HRWYT26	4	MR	40	20HRWYT26	5	MS
41	20HRWYT27	4	MR	41	20HRWYT27	7	S	41	20HRWYT27	6	MS
42	20HRWYT28	4	MR	42	20HRWYT28	4	MR	42	20HRWYT28	4	MR
43	20HRWYT29	4	MR	43	20HRWYT29	7	S	43	20HRWYT29	6	MS
44	20HRWYT3	5	MS	44	20HRWYT3	7	S	44	20HRWYT3	6	MS
45	20HRWYT30	3	R	45	20HRWYT30	7	S	45	20HRWYT30	5	MS
46	20HRWYT31	4	MR	46	20HRWYT31	7	S	46	20HRWYT31	6	MS
47	20HRWYT32	4	MR	47	20HRWYT32	5	MS	47	20HRWYT32	5	MS
48	20HRWYT33	5	MS	48	20HRWYT33	7	S	48	20HRWYT33	6	MS

Table S1 continued

Genotype number	Genotype	2013 mean score	Disease reaction	Genotype number	Genotype	2014 mean score	Disease reaction	Genotype number	Genotype	Combined mean score	Disease reaction
49	20HRWYT34	4	MR	49	20HRWYT34	7	S	49	20HRWYT34	6	MS
50	20HRWYT35	4	MR	50	20HRWYT35	7	S	50	20HRWYT35	6	MS
51	20HRWYT36	3	R	51	20HRWYT36	5	MS	51	20HRWYT36	4	MR
52	20HRWYT37	4	MR	52	20HRWYT37	5	MS	52	20HRWYT37	5	MS
53	20HRWYT38	4	MR	53	20HRWYT38	7	S	53	20HRWYT38	6	MS
54	20HRWYT39	5	MS	54	20HRWYT39	7	S	54	20HRWYT39	6	MS
55	20HRWYT4	4	MR	55	20HRWYT4	7	S	55	20HRWYT4	6	MS
56	20HRWYT40	5	MS	56	20HRWYT40	5	MS	56	20HRWYT40	5	MS
57	20HRWYT41	4	MR	57	20HRWYT41	5	MS	57	20HRWYT41	5	MS
58	20HRWYT42	4	MR	58	20HRWYT42	7	S	58	20HRWYT42	6	MS
59	20HRWYT43	3	R	59	20HRWYT43	7	S	59	20HRWYT43	5	MS
60	20HRWYT44	4	MR	60	20HRWYT44	7	S	60	20HRWYT44	6	MS
61	20HRWYT45	4	MR	61	20HRWYT45	7	S	61	20HRWYT45	6	MS
62	20HRWYT46	4	MR	62	20HRWYT46	5	MS	62	20HRWYT46	5	MS
63	20HRWYT47	5	MS	63	20HRWYT47	7	S	63	20HRWYT47	6	MS
64	20HRWYT48	4	MR	64	20HRWYT48	7	S	64	20HRWYT48	6	MS
65	20HRWYT49	4	MR	65	20HRWYT49	7	S	65	20HRWYT49	6	MS
66	20HRWYT5	4	MR	66	20HRWYT5	5	MS	66	20HRWYT5	5	MS
67	20HRWYT50	4	MR	67	20HRWYT50	5	MS	67	20HRWYT50	5	MS
68	20HRWYT51	5	MS	68	20HRWYT51	5	MS	68	20HRWYT51	5	MS
69	20HRWYT6	4	MR	69	20HRWYT6	5	MS	69	20HRWYT6	5	MS
70	20HRWYT7	4	MR	70	20HRWYT7	5	MS	70	20HRWYT7	5	MS
71	20HRWYT8	4	MR	71	20HRWYT8	7	S	71	20HRWYT8	6	MS
72	20HRWYT9	5	MS	72	20HRWYT9	7	S	72	20HRWYT9	6	MS
73	30SAWSN10	4	MR	73	30SAWSN10	5	MS	73	30SAWSN10	5	MS
74	30SAWSN11	5	MS	74	30SAWSN11	7	S	74	30SAWSN11	6	MS

75 30SAWSN12

4 MR

75 30SAWSN12

7 S

75 30SAWSN12

6

MS

Table S1 continued

Genotype number	Genotype	2013 mean score	Disease reaction	Genotype number	Genotype	2014 mean score	Disease reaction	Genotype number	Genotype	Combined mean score	Disease reaction
76	30SAWSN13	3	R	76	30SAWSN13	5	MS	76	30SAWSN13	4	MR
77	30SAWSN14	4	MR	77	30SAWSN14	5	MS	77	30SAWSN14	5	MS
78	30SAWSN15	4	MR	78	30SAWSN15	7	S	78	30SAWSN15	6	MS
79	30SAWSN16	4	MR	79	30SAWSN16	5	MS	79	30SAWSN16	5	MS
80	30SAWSN18	5	MS	80	30SAWSN18	7	S	80	30SAWSN18	6	MS
81	30SAWSN19	5	MS	81	30SAWSN19	7	S	81	30SAWSN19	6	MS
82	30SAWSN2	5	MS	82	30SAWSN2	7	S	82	30SAWSN2	6	MS
83	30SAWSN21	5	MS	83	30SAWSN21	5	MS	83	30SAWSN21	5	MS
84	30SAWSN3	4	MR	84	30SAWSN3	7	S	84	30SAWSN3	6	MS
85	30SAWSN4	4	MR	85	30SAWSN4	7	S	85	30SAWSN4	6	MS
86	30SAWSN5	4	MR	86	30SAWSN5	7	S	86	30SAWSN5	6	MS
87	30SAWSN6	4	MR	87	30SAWSN6	5	MS	87	30SAWSN6	5	MS
88	30SAWSN7	7	S	88	30SAWSN7	7	S	88	30SAWSN7	7	S
89	30SAWSN8	7	S	89	30SAWSN8	6	MS	89	30SAWSN8	7	S
90	30SAWSN9	3	R	90	30SAWSN9	7	S	90	30SAWSN9	5	MS
91	Coucal	4	MR	91	Coucal	6	MS	91	Coucal	5	MS
92	Kwale	4	MR	92	Kwale	6	MS	92	Kwale	5	MS
93	Loerrie II	7	S	93	Loerrie II	7	S	93	Loerrie II	7	S
94	Mampolyo	4	MR	94	Mampolyo	7	S	94	Mampolyo	6	MS
95	Nkhanga	4	MR	95	Nkhanga	7	S	95	Nkhanga	6	MS
96	Nseba	4	MR	96	Nseba	6	MS	96	Nseba	5	MS
97	Pwele	8	S	97	Pwele	7	S	97	Pwele	8	S
98	Sahai	4	MR	98	Sahai	6	MS	98	Sahai	5	MS
99	SB1	3	R	99	SB1	7	S	99	SB1	5	MS
100	SB10	4	MR	100	SB10	6	MS	100	SB10	5	MS

101 SB11 3 R | 101 SB11 6 MS | 101 SB11 5 MS

Table S1 continued

Genotype number	Genotype	2013 mean score	Disease reaction	Genotype number	Genotype	2014 mean score	Disease reaction	Genotype number	Genotype	Combined mean score	Disease reaction
102	SB12	4	MR	102	SB12	7	S	102	SB12	6	MS
103	SB13	4	MR	103	SB13	7	S	103	SB13	6	MS
104	SB14	4	MR	104	SB14	7	S	104	SB14	6	MS
105	SB15	4	MR	105	SB15	6	MS	105	SB15	5	MS
106	SB16	4	MR	106	SB16	6	MS	106	SB16	5	MS
107	SB17	7	S	107	SB17	6	MS	107	SB17	7	S
108	SB18	3	R	108	SB18	7	S	108	SB18	5	MS
109	SB19	4	MR	109	SB19	6	MS	109	SB19	5	MS
110	SB2	4	MR	110	SB2	3	R	110	SB2	4	MR
111	SB20	7	S	111	SB20	7	S	111	SB20	7	S
112	SB21	4	MR	112	SB21	6	MS	112	SB21	5	MS
113	SB22	7	S	113	SB22	6	MS	113	SB22	7	S
114	SB23	4	MR	114	SB23	6	MS	114	SB23	5	MS
115	SB24	4	MR	115	SB24	6	MS	115	SB24	5	MS
116	SB25	4	MR	116	SB25	6	MS	116	SB25	5	MS
117	SB26	4	MR	117	SB26	6	MS	117	SB26	5	MS
118	SB27	4	MR	118	SB27	7	S	118	SB27	6	MS
119	SB28	4	MR	119	SB28	6	MS	119	SB28	5	MS
120	SB29	4	MR	120	SB29	7	S	120	SB29	6	MS
121	SB3	4	MR	121	SB3	6	MS	121	SB3	5	MS
122	SB30	4	MR	122	SB30	7	S	122	SB30	6	MS
123	SB31	4	MR	123	SB31	3	R	123	SB31	4	MR
124	SB32	3	R	124	SB32	6	MS	124	SB32	5	MS
125	SB33	3	R	125	SB33	8	S	125	SB33	6	MS
126	SB34	4	MR	126	SB34	6	MS	126	SB34	5	MS

Table S1 continued

Genotype number	Genotype	2013 mean score	Disease reaction	Genotype number	Genotype	2014 mean score	Disease reaction	Genotype number	Genotype	Combined mean score	Disease reaction
127	SB35	3	R	127	SB35	6	MS	127	SB35	5	MS
128	SB36	3	R	128	SB36	6	MS	128	SB36	5	MS
129	SB37	4	MR	129	SB37	6	MS	129	SB37	5	MS
130	SB38	3	R	130	SB38	8	S	130	SB38	6	MS
131	SB39	4	MR	131	SB39	6	MS	131	SB39	5	MS
132	SB4	3	R	132	SB4	8	S	132	SB4	6	MS
133	SB40	3	R	133	SB40	8	S	133	SB40	6	MS
134	SB41	4	MR	134	SB41	8	S	134	SB41	6	MS
135	SB42	4	MR	135	SB42	6	MS	135	SB42	5	MS
136	SB43	7	S	136	SB43	8	S	136	SB43	8	S
137	SB44	4	MR	137	SB44	8	S	137	SB44	6	MS
138	SB45	4	MR	138	SB45	6	MS	138	SB45	5	MS
139	SB46	3	R	139	SB46	6	MS	139	SB46	5	MS
140	SB47	3	R	140	SB47	6	MS	140	SB47	5	MS
141	SB48	4	MR	141	SB48	6	MS	141	SB48	5	MS
142	SB49	4	MR	142	SB49	6	MS	142	SB49	5	MS
143	SB5	2	R	143	SB5	6	MS	143	SB5	4	MR
144	SB50	8	S	144	SB50	8	S	144	SB50	8	S
145	SB6	4	MR	145	SB6	6	MS	145	SB6	5	MS
146	SB7	4	MR	146	SB7	6	MS	146	SB7	5	MS
147	SB8	4	MR	147	SB8	6	MS	147	SB8	5	MS
148	SB9	4	MR	148	SB9	6	MS	148	SB9	5	MS
149	UNZAWV1	4	MR	149	UNZAWV1	6	MS	149	UNZAWV1	5	MS
150	UNZAWV2	7	S	150	UNZAWV2	6	MS	150	UNZAWV2	7	S

HRWSN= high rainfall wheat screening nursery, HRWYT= high rainfall wheat yield trial, SAWSN= semi-arid wheat screening nursery and SB= 2nd CSISA spot blotch. Disease reaction: R= resistance, MR= moderate resistance, MS= moderate susceptible and S susceptible.