

Effectiveness of Species- and Trichothecene-Specific Primers in Monitoring *Fusarium graminearum* Species Complex in Small Grain–Pea Intercropping Systems

Vesna Župunski ^{1*}, Radivoje Jevtić ¹, Milosav Grčak ², Mirjana Lalošević ¹, Branka Orbović ¹, Dalibor Živanov ¹ and Desimir Knežević ²

¹ Department of Small Grains, Institute of Field and Vegetable Crops, 21000 Novi Sad, Serbia; vesna.zupunski@ifvcns.ns.ac.rs (V.Ž.); radivoje.jevtic@ifvcns.ns.ac.rs (R.J.); mirjana.lalosevic@ifvcns.ns.ac.rs (M.L.); dalibor.zivanov@ifvcns.ns.ac.rs ([@D.Ž.](mailto:D.Z)) branka.orbovic@ifvcns.ns.ac.rs (B.O.)

² Department of Plant Protection, Faculty of Agriculture, University of Priština–Kosovska Mitrovica, 38219 Lešak, Serbia; milosav.grcak@pr.ac.rs (M.G.); deskoo@ptt.rs (D.K.)

* Correspondence: vesna.zupunski@ifvcns.ns.ac.rs Tel.: +381214898214

Table S1. FGSC isolates used in the study with PCR products produced by FGSC specific primer and primer sets for molecular chemotyping

Culture number	ID in the collection	Cultivation	Crop	Seeding time	Fg16F/R SCAR type1	FgrF/FgcR	Tri315F/R (15-AcDON)	Tri-5F/R (<i>Tri5</i>)	Morphological characteristics of FGSC
1	60S	Standalone	Wheat	Winter	-	+	+	+	+
2	61S	Standalone	Wheat	Winter	+		+		+
3	62S	Standalone	Wheat	Winter	+		+		+
4	63S	Standalone	Wheat	Winter	-	+	+	+	+
5	64S	Standalone	Wheat	Winter	-	-	+	+	+
6	66S	Standalone	Wheat	Winter	+		+		+
7	58S	Standalone	Wheat	Winter	+		+		+
8	59S	Standalone	Wheat	Winter	+		+		+
9	65S	Standalone	Wheat	Winter	+		+		+
10	67S	Standalone	Wheat	Winter	+		+		+
11	10I	Intercropping	Wheat + pea	Winter	+		+		+
12	11I	Intercropping	Wheat + pea	Winter	+		+		+
13	13I	Intercropping	Wheat + pea	Winter	+		+		+

14	15S	Standalone	Rye	Winter	+		+		+
15	16S	Standalone	Rye	Winter	+		+		+
16	17S	Standalone	Rye	Winter	-	+	+	+	+
17	20S	Standalone	Rye	Winter	-	+	+	+	+
18	21S	Standalone	Rye	Winter	+		+		+
19	19S	Standalone	Rye	Winter	+		+		+
20	68I	Intercropping	Rye + pea	Winter	+		+		+
21	77I	Intercropping	Rye + pea	Winter	-	+	+	+	+
22	76I	Intercropping	Rye + pea	Winter	+		+		+
23	36S	Standalone	Triticale	Winter	+		+		+
24	38S	Standalone	Triticale	Winter	-	-	+	+	+
25	26S	Standalone	Triticale	Winter	-	+	-	+	+
26	28S	Standalone	Triticale	Winter	+		+		+
27	90I	Intercropping	Triticale + pea	Winter	-	+	-	+	+
28	91I	Intercropping	Triticale + pea	Winter	-	-	+	+	+
29	92I	Intercropping	Triticale + pea	Winter	+	-	+		+
30	93I	Intercropping	Triticale + pea	Winter	-	+	+	+	+
31	94I	Intercropping	Triticale + pea	Winter	-	+	+	+	+
32	96I	Intercropping	Triticale + pea	Winter	+		+		+
33	97I	Intercropping	Triticale + pea	Winter	+		+		+
34	123S	Standalone	Wheat	Spring	-	+	+	+	+
35	125S	Standalone	Wheat	Spring	-	-	-	+	+
36	126S	Standalone	Wheat	Spring	+		+		+
37	127S	Standalone	Wheat	Spring	+		+		+
38	128S	Standalone	Wheat	Spring	+		+		+
39	186I	Intercropping	Wheat + pea	Spring	+		+		+
40	190I	Intercropping	Wheat + pea	Spring	+		+		+
41	192I	Intercropping	Wheat + pea	Spring	+		+		+
42	191I	Intercropping	Wheat + pea	Spring	+		+		+
43	138S	Standalone	Rye	Spring	+		+		+
44	200I	Intercropping	Rye + pea	Spring	+		+		+

45	155S	Standalone	Triticale	Spring	-	+	+	+	+
46	157S	Standalone	Triticale	Spring	-	-	-	+	+
47	211I	Intercropping	Triticale + pae	Spring	-	+	+	+	+
48	212I	Intercropping	Triticale + pae	Spring	-	+	+	+	+
49	219I	Intercropping	Triticale + pae	Spring	+	-	+		+
50	222I	Intercropping	Triticale + pae	Spring	-	+	-	+	+
51	223I	Intercropping	Triticale + pae	Spring	-	+	+	+	+
52	224I	Intercropping	Triticale + pae	Spring	+		+		+
53	168I	Standalone	Oat	Spring	-	+	+	+	+

+/- indicates presence/absence of PCR product; Fg16F/R primer pair for *F. graminearum* s. *stricto*; FgrF/FgcR primer pair for *F. graminearum* s. *lato*