Supplementary Materials: Phylogeny and Mycotoxin Profile of Pathogenic *Fusarium* species Isolated from Sudden Decline Syndrome and Leaf Wilt Symptoms, on Date Palm (*Phoenix dactylifera*), in Tunisia

Amal Rabaaoui, Chiara Dall'Asta, Laura Righetti, Antonia Susca, Antonio F. Logrieco, Ahmed Namsi, Radhouane Gdoura, Stefaan P. O. Werbrouck, Antonio Moretti and Mario Masiello

Table S1. Pathogenicity of 51 *Fusarium* strains selected for pathogenicity assay. For each experiment, 3 replications consisting of 3 plants per replicate were considered. Data were analyzed using one-way ANOVA, followed by means separation using Duncan test at $p \leq 0.05$.

Strain (ITEM)	*Fusarium* species	Part of Plant	Origin	DSI*
18583	*F. proliferatum*	Leaves	El-Hamma	38.9[a**]
18584	*F. proliferatum*	Leaves	El-Hamma	50[abcd]
18595	*F. proliferatum*	Leaves	El-Hamma	50[abcd]
18592	*F. proliferatum*	Leaves	El-Hamma	47.2[abcd]
		Mean value		**46.5**
18585	*F. proliferatum*	Leaves	Hezoua	55.6[abcd]
18586	*F. proliferatum*	Leaves	Hezoua	50[abcd]
18590	*F. proliferatum*	Leaves	Hezoua	44.4[abcd]
18591	*F. proliferatum*	Leaves	Hezoua	41.7[ab]
18594	*F. proliferatum*	Leaves	Hezoua	44.4[abc]
18605	*F. proliferatum*	Leaves	Hezoua	63.9[abcd]
18620	*F. proliferatum*	Leaves	Hezoua	63.9[abcd]
		Mean value		**52**
18593	*F. proliferatum*	Leaves	IBN Chabbat	72.2[abcd]
18601	*F. proliferatum*	Leaves	IBN Chabbat	63.9[abcd]
18612	*F. proliferatum*	Leaves	IBN Chabbat	83.3[d]
18597	*F. proliferatum*	Leaves	IBN Chabbat	69.4[abcd]
18600	*F. proliferatum*	Leaves	IBN Chabbat	72.2[abcd]
18588	*F. proliferatum*	Roots	IBN Chabbat	61.1[abcd]
18587	*F. proliferatum*	Roots	IBN Chabbat	72.2[abcd]
		Mean value		**70.6**
18608	*F. proliferatum*	Leaves	Mides	75[bcd]
18609	*F. proliferatum*	Leaves	Mides	66.7[abcd]
18626	*F. proliferatum*	Leaves	Mides	66.7[abcd]
18598	*F. proliferatum*	Leaves	Mides	75[bcd]
18614	*F. proliferatum*	Leaves	Mides	69.4[abcd]
18615	*F. proliferatum*	Leaves	Mides	66.7[abcd]
18589	*F. proliferatum*	Leaves	Mides	75[bcd]
18627	*F. proliferatum*	Leaves	Mides	69.4[cd]
		Mean value		**70.5**
18607	*F. proliferatum*	Leaves	Tozeur	72.2[abcd]
18623	*F. proliferatum*	Leaves	Tozeur	75[abcd]
18625	*F. proliferatum*	Leaves	Tozeur	80.6[abcd]

18610	*F. proliferatum*	Leaves	Tozeur	61.1[abcd]
18606	*F. proliferatum*	Leaves	Tozeur	58.3[abcd]
	Mean value			**69.4**
18596	*F. proliferatum*	Leaves	Dgeuch	63.9[abcd]
18621	*F. proliferatum*	Leaves	Dgeuch	47.2[abcd]
18619	*F. proliferatum*	Leaves	Dgeuch	50[abcd]
	Mean value			**53.7**
18604	*F. proliferatum*	Leaves	Nafta	63.9[abcd]
18628	*F. proliferatum*	Leaves	Nafta	52.8[abcd]
18629	*F. proliferatum*	Leaves	Nafta	58.3[abcd]
	Mean value			**58.3**
			MIN	**38.9**
	Fusarium proliferatum		**MAX**	**83.3**
			Mean value	**61.9**
18630	*F. incarnatum*	Roots	Mides	88.9[a]
18631	*F. caatingaense*	Leaves	Tozeur	58.3[ab]
18632	*F. caatingaense*	Leaves	Tozeur	63.9[ab]
18633	*F. caatingaense*	Roots	Tozeur	72.2[b]
18634	*F. clavum*	Leaves	IBN Chabbat	80.6[ab]
	Fusarium Incarnatum Equiseti		**MIN**	**58.3**
	Species Complex		**MAX**	**88.9**
			Mean value	**72.8**
18635	*F. brachygibbosum*	Leaves	Mides	80.6[b]
18637	*F. brachygibbosum*	Leaves	Mides	75[ab]
18638	*F. brachygibbosum*	Roots	Hezoua	47.2[ab]
18639	*F. brachygibbosum*	Leaves	IBN Chabbat	69.4[ab]
18640	*F. brachygibbosum*	Leaves	IBN Chabbat	63.9[ab]
18641	*F. brachygibbosum*	Leaves	El-Hamma	41.7[ab]
18642	*F. brachygibbosum*	Roots	El-Hamma	47.2[a]
			MIN	**41.7**
	Fusarim brachygibbosum		**MAX**	**80.6**
			Mean value	**60.7**
18643	*F. solani*	Roots	IBN Chabbat	72.2[a]
18644	*F. solani*	Leaves	Mides	80.6[a]
			MIN	**72.2**
	Fusarium solani		**MAX**	**80.6**
			Mean value	**76.4**

* DSI = $\Sigma\ [(n \times c)/(V \times N)] \times 100$, where n is number of palm plantlets per class, c is the numerical value of each class, V is the highest class value, and N is the total number of plantlets. **= a, b, c, d: values followed by the same letter are not significantly different ($p < 0.05$) according to Duncan test.