Supplementary Table S1. Variability in conidia size of representative *Alternaria* strains.

Strain (ITEM)	*Alternaria* species	Conidium length (µm) ± SD	Conidium width (µm) ± SD
17785	*A. alternata*	11.8±3.7	4.8±1.5
17789		17.5 ± 5.5	4.7 ± 1.5
17791		14.4 ± 4.6	4.7 ± 1.5
17808		12.9 ± 4.1	4.5 ± 1.4
17810		11.7 ± 3.7	5.1 ± 1.6
17815		9.8 ± 3.0	5.1 ± 1.6
17823		11.3 ± 3.5	5.3 ± 1.7
17834		11.2 ± 3.5	4.4 ± 1.4
17844		11.3 ± 3.6	4.8 ± 1.5
17847		13.9 ± 4.4	4.9 ± 1.6
17851		10.5 ± 3.3	4.5 ± 1.4
17855		14.5 ± 4.6	4.9 ± 1.6
17778	*A. arborescens*	10.0 ± 3.2	4.3 ± 1.4
17790		12.9 ± 4.1	5.5 ± 1.7
17792		9.1 ± 2.9	4.6 ± 1.5
17828		10.4 ± 3.3	4.6 ± 1.4
17787	*A. mali*	14.9 ± 4.7	5.3 ± 1.7
17812		13.9 ± 4.4	4.6 ± 1.4

Supplementary Table S2. Mycotoxin production by 79 *Alternaria* strains, cultured on rice, isolated from *Cakile maritima*.

Strain (ITEM)	Mycotoxin (mg kg^{-1})[a]			
	AOH	AME	TA	ALT
A. alternata				
17779	167.2	1782.4	1441.9	n.d.
17780	109.5	3052.4	1572.7	n.d.
17782	4.4	n.d.	n.d.	n.d.
17783	125.7	865.0	787.4	n.d.
17784	180.8	610.7	5145.9	n.d.
17785	94.6	339.6	5523.8	n.d.
17786	72.7	2308.7	n.d.	n.d.
17789	183.1	3131.5	1875.4	39.2
17791	1856.8	7911.4	n.d.	n.d.
17793	30.8	216.6	3548.8	n.d.
17794	n.d.	n.d.	4928.1	n.d.
17795	16.9	n.d.	1225.1	n.d.
17796	149.6	1631.7	3253.8	n.d.
17802	87.6	2230.5	5970.2	n.d.
17806	49.3	321.8	2598.7	n.d.
17807	204.0	1442.9	1178.8	n.d.
17808	1380.7	8766.6	19837.6	n.d.
17810	25.8	118.9	5752.5	n.d.
17811	18.8	240.8	7514.8	n.d.

(Continued)

Supplementary Table S2. (Continued).

Strain (ITEM)	Mycotoxin (mg kg^{-1})[a]			
	AOH	AME	TA	ALT
17813	999.6	1002.4	3728.0	n.d.
17815	n.d.	n.d.	n.d.	n.d.
17816	26.2	56.9	3766.7	n.d.
17817	119.3	1164.8	n.d.	n.d.
17823	n.d.	n.d.	n.d.	n.d.
17824	n.d.	n.d.	n.d.	n.d.
17827	43.7	n.d.	4255.9	n.d.
17829	73.2	958.5	3007.7	n.d.
17830	170.5	962.8	1058.2	n.d.
17831	67.0	613.8	5386.7	n.d.
17832	52.0	813.0	1912.1	n.d.
17833	94.1	836.7	1336.6	n.d.
17834	125.2	827.2	1995.1	n.d.
17838	43.0	n.d.	1038.3	n.d.
17839	84.1	2188.2	n.d.	n.d.
17840	26.4	87.0	3592.9	n.d.
17841	37.0	466.2	3326.1	n.d.
17843	154.4	2493.9	n.d.	n.d.
17844	n.d.	n.d.	n.d.	n.d.
17845	19.1	225.4	3664.1	n.d.
17847	196.9	3237.3	1983.7	n.d.
17848	11.8	53.4	6022.0	n.d.
17850	205.8	1461.9	5674.2	n.d.
17851	230.7	1856.4	7313.0	n.d.
17852	51.0	152.2	1319.5	n.d.
17854	371.7	3113.6	1491.2	n.d.
17855	255.8	3237.3	2728.5	43.1
17856	2640.8	n.d.	1234.5	n.d
Mean Value ± SD	258.5 ± 522.5	1642.7 ± 1919.1	3729.5 ± 3329.1	41.2 ± 2.8
Alternaria arborescens				
17778	166.1	1848.7	953.0	n.d.
17781	14.6	61.8	1276.2	n.d.
17790	133.7	659.1	2613.8	n.d.
17792	127.4	402.1	6202.0	n.d.
17804	n.d.	n.d.	n.d.	n.d.
17805	76.1	182.7	4492.3	n.d.
17814	n.d.	n.d.	n.d.	n.d.
17820	9.8	n.d.	1161.4	n.d.
17821	14.4	n.d.	2722.6	n.d.
17826	n.d.	n.d.	n.d.	n.d.
17828	122.6	711.2	n.d.	n.d.
17836	510.4	1834.0	4526.7	n.d.
17837	n.d.	n.d.	n.d.	n.d.
Mean Value ± SD	130.6 ± 154.2	814.2 ± 739.3	2993.5 ± 1911.6	0 ± 0
Alternaria mali				
17787	264.0	2794.2	6315.7	n.d.
17788	299.6	2201.7	1142.0	77.3

(Continued)

Supplementary Table S2. (Continued).

Strain (ITEM)	Mycotoxin (mg kg^{-1})[a]			
	AOH	AME	TA	ALT
17812	56.9	278.8	3334.8	n.d.
17818	42.4	54.0	6692.3	n.d.
17819	367.3	1341.6	5805.1	n.d.
17822	1071.3	3604.5	6409.8	n.d.
17825	128.6	1461.9	n.d	n.d.
17835	1671.7	9149.4	4992.6	n.d.
17842	19.2	n.d.	3357.2	n.d.
17846	18.1	n.d.	3958.6	n.d.
17849	10.8	71.2	344.4	n.d.
17853	31.7	129.7	4102.6	n.d.
Mean Value ± SD	331.8 ± 516.9	2108.7 ± 2767.5	4223.2 ± 2109.8	-
Alternaria spp.				
17797	40.9	213.0	3556.8	n.d.
17798	153.9	664.6	4917.1	n.d.
17799	179.6	1661.7	5601.6	n.d.
17800	95.9	903.8	2583.9	n.d.
17801	150.0	1411.2	4915.7	n.d.
17803	109.7	1216.8	1941.6	n.d.
17809	107.0	756.7	8904.1	n.d.
Mean Value ± SD	119.6 ± 46	975.4 ± 491.6	4631.5 ± 2307.3	-

[a] AOH (alternariol); AME (alternariolmonomethyl ether); TA (Tenuazonic Acid); ALT (altenuene); n.d (not detected).

Supplementary Table S3. Pathogenicity test of 41 *Alternaria* strains on *C. maritima* leaves.

Alternaria Species	Strain (ITEM)	Pathogenicity (cm)[a] ± SD
A. alternata	17780	0.7 ± 0.4
	17783	0.9 ± 0.5
	17784	0.7 ± 0.44
	17785	0.8 ± 0.5
	17789	0.6 ± 0.4
	17793	1 ± 0.6
	17794	1.1 ± 0.6
	17795	0.7 ± 0.4
	17796	0.9 ± 0.5
	17802	0.6 ± 0.4
	17806	1. ± 0.6
	17808	1 ± 0.6
	17810	0.7 ± 0.4
	17815	0.8 ± 0.5
	17816	0.7 ± 0.4
	17817	0.8 ± 0.4
	17823	0.5 ± 0.3
	17824	0.7 ± 0.4
	17827	0.8 ± 0.5
	17829	0.8 ± 0.4

(Continued)

Supplementary Table S3. (Continued).

Alternaria Species	Strain (ITEM)	Pathogenicity (cm)[a] ± SD
A. arborescens	17830	1 ± 0.6
	17831	0.7 ± 0.4
	17834	0.6 ± 0.3
	17838	0.9 ± 0.5
	17781	0.7 ± 0.4
	17790	0.9 ± 0.5
	17792	0.5 ± 0.3
	17804	0.9 ± 0.5
	17805	1.2 ± 0.7
	17821	0.9 ± 0.5
	17828	1.1 ± 0.6
	17837	0.7 ± 0.4
A. mali	17787	0.6 ± 0.4
	17818	0.6 ± 0.4
	17819	0.6 ± 0.3
	17842	0.8 ± 0.5
	17853	0.5 ± 0.3
Alternaria spp	17799	0.8 ± 0.4
	17801	0.6 ± 0.3
	17803	1 ± 0.6
	17809	1.1 ± 0.6

[a]diameter of the lesions on leaves.