

Suppl. Table S1. Statistical analyses of the effect of interacting abiotic factors on total secondary metabolites of the three genera found in the maize and the significance of those metabolites produced at &gt; 500 ng/g.

		Wilcoxon/Kruskal-Wallis Tests (Rank Sums)				Non-parametric Comparisons for each pair using Wilcoxon Method				
		Total	Aspergillus	Fusarium	Penicillium	Level-Level	Total	Aspergillus	Fusarium	Penicillium
Total Number of Secondary Metabolites	Water activity	0.0001*	<.0001*	0.4892	0.0006*	0.95-0.90	0.0245*	<.0001*	0.1541	0.0174*
						0.95-0.85	0.0002*	<.0001*	0.8044	0.0066*
						0.95-0.80	0.0001*	0.0003*	0.6206	0.0174*
						0.90-0.85	0.0005*	0.0021*	0.2688	0.0049*
						0.90-0.80	0.0012*	0.0056*	0.3361	0.0060*
						0.85-0.80	0.6847	0.7447	0.8837	0.9768
	Temperature	0.1527	0.6884	0.0050*	0.0002*	35-30	0.1393	0.2550	0.7100	<.0001*
						35-25	0.0493*	0.5166	0.0252*	<.0001*
						35-20	0.1403	0.6381	0.0593	0.0030*
						30-25	0.3239	0.6834	0.0019*	0.4222
						30-20	0.9754	0.9220	0.0075*	0.7570
						25-20	0.3697	0.4599	0.7488	0.3396
Total Number of Secondary Metabolites (> 500ng/g)	Water activity	<.0001*	<.0001*	0.0027*	<.0001*	0.95-0.90	<.0001*	<.0001*	0.0335*	0.0010*
						0.95-0.85	<.0001*	<.0001*	0.0247*	0.0004*
						0.95-0.80	<.0001*	<.0001*	0.0003*	0.0004*
						0.90-0.85	0.0054	0.0707	0.8353	0.0308*
						0.90-0.80	<.0001*	0.5286	0.1605	0.0172*
						0.85-0.80	0.0151*	0.2850	0.0863	0.3861
	Temperature	0.7494	0.4700	0.5504	0.0295*	35-30	0.4961	0.7788	0.3584	0.0057*
						35-25	0.2709	0.5754	0.9766	0.0089*
						35-20	0.8865	0.3450	0.3163	0.1341
						30-25	0.8768	0.2829	0.3920	0.7003
						30-20	0.6647	0.1604	0.7015	0.5518
						25-20	0.6008	0.6137	0.2753	0.4208

\*Indicates significant differences. Different colours indicate the level of significance. Red p-values<0.05, orange p-values<0.001 and black >0.05.