

Correction

Correction: Penagos-Tabares et al. Mixtures of Mycotoxins, Phytoestrogens, and Other Secondary Metabolites in Whole-Plant Corn Silages and Total Mixed Rations of Dairy Farms in Central and Northern Mexico. *Toxins* 2023, 15, 153

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Table 3. Occurrences and concentrations of mycotoxins and other fungal metabolites detected in whole-plant corn silages and total mixed rations of Mexican dairy farms.

Group of Metabolites	Metabolite	Positive Samples ¹ (%)	Whole-Plant Corn Silages (n = 19)			Positive Samples ¹ (%)	Total Mixed Rations (n = 19)			Wilcoxon Matched-Pairs Test <i>p</i> -Value *		
			Concentration ($\mu\text{g/kg DM}$) ²				Concentration ($\mu\text{g/kg DM}$) ²					
			Average \pm SD	Median	Range		Average \pm SD	Median	Range			
Ergot alkaloids	Festuclavine +	5	—	—	2.41	0	—	—	—	>0.9999		
	Dihydroergosine +	26	1.35 \pm 1.17	1.29	0.13–3.2	21	0.83 \pm 0.97	0.44	0.18–2.28	0.0625		
	Chanoclavine +	5	—	—	2.04	5	—	—	12.5	>0.9999		
<i>Alternaria</i> spp.	Altenuisol +	32	2.5 \pm 0	2.5	2.5–2.5	37	3.14 \pm 1.7	2.5	2.5–6.99	0.7656		
	Alternariol +	5	—	—	5.5	11	9.77 \pm 6.04	9.77	5.5–14	0.75		
	Alternariolmethyl ether +	47	9.89 \pm 7.59	5.5	5.5–27.4	42	6.39 \pm 2.51	5.5	5.5–12.6	0.25		
	Altersetin +	26	6.76 \pm 4.5	5.16	1.25–12.7	42	15.7 \pm 9.86	12.3	4.18–34.3	0.0488		
	Infectopyron	21	97 \pm 64	94	23.9–176	16	34.2 \pm 3.38	36.1	30.3–36.2	0.1875		
	Macrosporin +	16	3.75 \pm 0	3.75	3.75–3.75	11	3.75 \pm 0	3.75	3.75–3.75	>0.9999		
	Tentoxin +	42	7.71 \pm 4.86	6.38	3.1–16	79	6.91 \pm 2.87	6.41	2.48–11.3	0.0932		
	Tenuazonic acid +	32	40.2 \pm 10.4	37.5	30.1–60.4	53	49.4 \pm 16.8	41.8	30.3–82.8	0.064		
<i>Aspergillus</i> spp.	Averufin +	42	3.6 \pm 1.9	3.0	3.0–8.4	26	2.95 \pm 0	2.95	2.95–2.95	0.125		
	Deoxygerfelin	0	—	—	—	11	2.41 \pm 1.33	2.41	1.47–3.35	0.5		
	Flavoglaucin +	11	2.8 \pm 0.97	2.8	2.11–3.49	100	40.7 \pm 29.6	41.6	3.63–111	<0.0001		
	Fumigaclavine C +	5	—	—	47.2	0	—	—	—	>0.9999		
	Fumiquinazolin D +	0	—	—	—	11	11.8 \pm 5.34	11.8	8.01–15.6	0.5		
	Kojic acid +	11	877 \pm 130	877	785–69	5	—	—	145	0.5		
	Kotanin A	11	2.5 \pm 0	2.5	2.5–2.5	5	—	—	2.50	>0.9999		
	Methylsulochrin	5	—	—	4.5	11	4.5 \pm 0	4.5	4.5–4.5	>0.9999		
	Phenopyrrozin	84	56.1 \pm 28.1	53.1	16.2–132	79	12.4 \pm 5.14	10.7	7.16–24.1	<0.0001		
	seco-Sterigmatocystin +	16	2.72 \pm 1.8	3.58	0.65–3.91	42	0.9 \pm 0.46	0.65	0.65–1.71	>0.9999		
	Sterigmatocystin +	0	—	—	—	11	2.65 \pm 0	2.65	2.65–2.65	0.5		
	Versicolorin C	16	6.05 \pm 3.98	3.75	3.75–10.6	0	—	—	—	0.25		

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			Concentration ($\mu\text{g/kg DM}$) ²				Concentration ($\mu\text{g/kg DM}$) ²					
			Average \pm SD	Median	Range		Average \pm SD	Median	Range			
<i>Fusarium</i> spp.	15-Acetyldeoxynivalenol ⁺	11	142 \pm 46.7	142	109–175	0	—	—	—	0.5		
	15-Hydroxyculmorin ⁺	32	2090 \pm 1510	1580	464–4410	26	1270 \pm 195	1280	993–1510	0.1563		
	Acuminatum B ⁺	32	151 \pm 89.6	142	58.3–290	26	52.2 \pm 21.8	55.8	27.6–83.2	0.1094		
	Antibiotic Y	5	—	—	9.5	5	—	—	9.5	>0.9999		
	Apicidin ⁺	16	7.14 \pm 2.32	7.23	4.78–9.41	5	—	—	9.04	0.5		
	Aurofusarin ⁺	68	168 \pm 386	48.8	3–1420	84	83.4 \pm 67.3	67.1	11.4–224	0.2247		
	Beauvericin ⁺	100	57.8 \pm 74.7	32.3	5.46–330	100	33.1 \pm 24.3	29.1	3.84–84.2	0.2266		
	Beauvericin A ⁺	89	0.96 \pm 1.55	0.45	0.45–6.87	84	0.55 \pm 0.27	0.45	0.45–1.42	0.0204		
	Bikaverin ⁺	95	224 \pm 253	99.4	15.3–879	100	115 \pm 95.6	94.7	18.1–308	0.0204		
	Chrysogin ⁺	0	—	—	—	5	—	—	8.03	>0.9999		
	Culmorin ⁺	58	865 \pm 695	634	150–2090	58	505 \pm 427	402	150–1420	0.0234		
	Deoxyfusapyron	11	22 \pm 12	22	13.5–30.5	16	591 \pm 603	521	26.2–1230	0.375		
	Deoxynivalenol ⁺	53	1500 \pm 1080	1370	323–3350	84	615 \pm 491	376	78–1670	0.1928		
	DON-3-glucoside ⁺	26	74 \pm 95.5	19.5	19.5–240	37	60.3 \pm 23.5	65	19.5–86.6	0.3984		
	Enniatin A ⁺	11	1.02 \pm 1.15	1.02	0.2–1.83	37	0.45 \pm 0.37	0.2	0.2–1.19	0.3438		
	Enniatin A1 ⁺	11	0.4 \pm 0	0.4	0.4–0.4	79	1.03 \pm 0.82	0.4	0.4–2.6	0.0002		
	Enniatin B ⁺	0	—	—	—	68	4.63 \pm 5.62	1.4	1.4–18.8	0.0002		
	Enniatin B1 ⁺	11	1.45 \pm 0	1.45	1.45–1.45	89	3.99 \pm 3.78	1.45	1.45–12.2	<0.0001		
	Enniatin B2 ⁺	0	—	—	—	16	0.29 \pm 0.05	0.29	0.24–0.34	0.25		
	Epiequisetin ⁺	16	3.37 \pm 1.6	3.78	1.6–4.72	5	—	—	1.6	0.375		
	Equisetin ⁺	32	6.3 \pm 6.27	3.05	1.6–14.7	42	5.19 \pm 2.46	4.17	2.36–9.58	0.6836		
	Fumonisin A1 precursor ⁺	16	63.2 \pm 40.5	61.2	23.7–105	58	14.3 \pm 14.1	9.16	3.55–48.9	0.3096		
	Fumonisin A2 ⁺	11	43 \pm 3.91	43	40.2–45.8	5	—	—	18	0.5		
	Fumonisin B1 ⁺	47	723 \pm 1050	124	26.5–2700	84	218 \pm 244	126	26.5–1010	0.2288		
	Fumonisin B2 ⁺	42	301 \pm 371	72.6	18–987	68	103 \pm 100	61.5	18–395	0.7722		
	Fumonisin B3 ⁺	16	276 \pm 145	297	121–409	32	57.1 \pm 41.8	40	26.5–131	>0.9999		
	Fumonisin B4 ⁺	16	78.3 \pm 70.5	61	18–156	32	26.1 \pm 20	18	18–66.9	0.5625		

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			Concentration ($\mu\text{g/kg DM}$) ²				Concentration ($\mu\text{g/kg DM}$) ²					
			Average \pm SD	Median	Range		Average \pm SD	Median	Range			
<i>Fusarium</i> spp.	Fungenerin	0	—	—	—	5	—	—	26.5	>0.9999		
	Fusaproliferin +	37	403 \pm 628	166	61.5–1820	58	280 \pm 252	226	60.8–989	0.3054		
	Fusapyron +	5	—	—	1.5	5	—	—	5.46–5.46	>0.9999		
	Fusaric acid +	89	1210 \pm 840	1130	260–3220	74	562 \pm 235	503	298–1190	<0.0001		
	Hydrolysed Fumonisin B1 +	16	37 \pm 49.1	10	7.29–93.7	5	—	—	30.4	0.75		
	Moniliformin +	89	88.9 \pm 76.9	48	9–263	100	101 \pm 67	78.8	27.6–247	0.1956		
	Nivalenol +	42	269 \pm 184	209	103–614	68	872 \pm 853	385	88.5–2600	0.0061		
	Sambutoxin +	37	0.37 \pm 0.19	0.3	0.3–0.79	5	—	—	0.3	0.0625		
	Siccanol +	89	4620 \pm 3530	3960	525–12,350	95	2510 \pm 1650	2370	409–6130	0.0028		
	W493	79	171 \pm 190	80.7	3.55–694	74	86.6 \pm 65.4	101	3.55–190	0.0256		
	Zearalenone +	68	58.7 \pm 79.4	21.5	4.6–278	100	38.7 \pm 57.2	17.8	4.6–246	0.9297		
	Total enniatins	47	5.96 \pm 7.24	1.60	0.60–19	89	11.2 \pm 9.8	7.11	1.85–37	0.0144		
<i>Penicillium</i> spp.	Total fumonisins	47	1150 \pm 1570	203	26.5–4410	89	325 \pm 396	155	3.6–1670	0.3867		
	Total Type B trichothecenes	53	2000 \pm 1230	1790	323–4230	89	1940 \pm 1760	1156	78.0–5510	0.0505		
	7-Hydroxypestalotin	53	17.3 \pm 9.99	14.9	7.3–41.9	47	9.74 \pm 4.87	9.74	2.6–16.7	0.0186		
	Asterric acid	5	—	—	12.5	5	—	—	12.5	N/A		
	Bilaid A	100	20.3 \pm 22.9	11.4	5.78–87.6	95	8.53 \pm 7.04	6.77	3.49–27.3	<0.0001		
	Citreoviridin +	0	—	—	—	21	42.9 \pm 12.2	41.3	31.1–58	0.125		
	Citrinin +	0	—	—	—	5	—	—	77.9	>0.9999		
	Cycloaspeptide A	0	—	—	—	5	—	—	13.4	>0.9999		
	Cyclopentin	5	—	—	2.85	0	—	—	—	>0.9999		
	Mycophenolic acid +	11	90.2 \pm 118	90.2	7–173	42	32 \pm 42.9	11.4	7–127	0.1094		
	Mycophenolic acid IV +	5	—	—	2.53	0	—	—	—	>0.9999		
	NP 1243	5	—	—	34.1	0	—	—	—	>0.9999		
	Oxaline	16	68.9 \pm 61.2	81.2	2.55–123	16	20.1 \pm 14.9	12.9	10–37.2	0.5		
	Pestalotin	53	29.2 \pm 13.5	28.7	8.61–59.2	58	12.4 \pm 6.93	11.2	3.3–24.5	0.0282		
	PF 1163A	5	—	—	3.32	5	—	—	0.75	>0.9999		
	Questiomycin	5	—	—	1.5	89	8.71 \pm 7.72	8.6	0.6–23	<0.0001		
	Questiomycin Derivate	95	184 \pm 111	164	34.9–407	95	118 \pm 64.2	106	18.1–238	0.0002		
	Quinolactacin A	11	1.2 \pm 0	1.2	1.2–1.2	21	1.2 \pm 0	1.2	1.2–1.2	0.5		

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			Concentration ($\mu\text{g/kg DM}$) ²				Concentration ($\mu\text{g/kg DM}$) ²					
			Average \pm SD	Median	Range		Average \pm SD	Median	Range			
Other fungi	Ascochlorin	21	11.9 \pm 10.2	8.43	3.75–26.9	21	6.24 \pm 4.99	3.75	3.75–13.7	0.625		
	Ascofuranone	21	2.26 \pm 1.82	1.35	1.35–4.98	5	—	—	1.35	0.3125		
	Bassianolide	37	3.17 \pm 1.25	2.7	2.7–6	32	2.7 \pm 0	2.7	2.7–2.7	0.5		
	Beauveriolide I_III	26	1.5 \pm 0	1.5	1.5–1.5	16	4.22 \pm 3.01	3.71	1.5–7.45	0.6563		
	Cercosporin	58	40.8 \pm 25.6	36.5	13.2–87.9	79	72.2 \pm 79.7	42.5	15.1–325	0.0479		
	Cytochalasin J	0	—	—	—	11	136 \pm 26.5	136	117–155	0.5		
	Destruxin B ⁺	0	—	—	—	21	1.25 \pm 0.68	1.1	0.7–2.09	0.125		
	Ilicicolin A	5	—	—	6.23	37	1.83 \pm 0.61	1.6	1.6–3.21	0.2813		
	Ilicicolin B	79	18.9 \pm 20.7	4.45	4.45–69.4	89	14.1 \pm 9.96	13	4.45–28.9	0.6848		
	Ilicicolin E	5	—	—	1.7	11	1.7 \pm 0	1.7	1.7–1.7	>0.9999		
	Monocerin	89	115 \pm 237	37.4	2.1–990	74	85.9 \pm 133	37.2	2.1–502	0.0024		
	Mycousnine	0	—	—	—	11	0.75 \pm 0	0.75	0.75–0.75	0.5		
	Myriocin ⁺	16	67.9 \pm 52.1	48.1	28.6–127	32	44.6 \pm 26.2	41.1	15.7–92.6	0.5625		
	Phomalone	5	—	—	6.14	0	—	—	—	>0.9999		
Unspecific metabolites	Sporidesmolide II	84	7.9 \pm 13.2	2.92	0.75–44.7	74	4.4 \pm 5.07	2.54	0.75–17.2	0.0643		
	Sporidesmolide III	5	0.75	0.75	0.75	0	—	—	—	>0.9999		
	3-Nitropropionic acid	21	63 \pm 60.9	43	18.5–147	21	18.5 \pm 0	18.5	18.5–18.5	0.5		
	Asperglauclide	5	—	—	5.99	100	27.3 \pm 33.6	10.8	2.05–142	<0.0001		
	Asperphenamate	5	—	—	4.89	79	5.98 \pm 7.37	3.35	1.93–31.4	<0.0001		
	Brevianamid F	89	171 \pm 77.8	166	61–408	89	116 \pm 40.6	112	49.2–228	0.0021		
	Chrysophanol	47	226 \pm 111	231	62.5–367	32	176 \pm 65.1	205	62.5–226	0.0195		
	Citreorosein	53	24.1 \pm 12.4	19.1	14.7–54.4	37	19.1 \pm 6.67	15.8	12.5–30.1	0.123		
	Cyclo(L-Pro-L-Tyr)	100	4680 \pm 2300	4570	926–8970	100	2180 \pm 1110	1890	589–5360	0.0006		
	Cyclo(L-Pro-L-Val)	100	14,760 \pm 3820	13,450	6890–2200	100	7080 \pm 2300	6790	2160–11,570	<0.0001		
Unspecific metabolites	Emodin	95	9.62 \pm 5.31	9.22	3.5–23.1	95	46.9 \pm 102	8.49	3.5–422	0.2312		
	Fellutanine A	95	128 \pm 51.8	127	48.8–260	89	94.3 \pm 38.7	86.7	34.8–199	0.0053		
	Iso-Rhodoptilometrin	58	1.58 \pm 0.59	1.4	1.4–3.35	53	1.4 \pm 0	1.4	1.4–1.4	0.5		
	N-Benzoyl-Phenylalanine	0	—	—	—	21	12.2 \pm 2.47	12.1	9.56–15	0.125		
	Neoechinulin A	0	—	—	—	100	133 \pm 78.4	102	29.6–304	<0.0001		
	Norlichexanthone	5	—	—	1.9	47	1.9 \pm 0	1.9	1.9	0.0078		
	Rugulusovine	100	355 \pm 153	373	137–681	100	204 \pm 93.8	197	53.5–407	<0.0001		
	Skyrin	68	2.06 \pm 1.07	1.85	0.55–3.96	89	4.42 \pm 6.13	2.48	0.55–27	0.0097		
	Ternatin	5	—	—	6.32	0	—	—	—	>0.9999		
	Tryptophol	42	258 \pm 126	170	170–456	32	963 \pm 817	642	170–2100	0.5508		

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			Concentration ($\mu\text{g/kg DM}$) ²				Concentration ($\mu\text{g/kg DM}$) ²					
			Average \pm SD	Median	Range		Average \pm SD	Median	Range			
Phytoestrogens	Biochanin	5	—	—	147	79	36.3 \pm 13	34.5	20.2–61.6	0.0081		
	Coumestrol	26	56 \pm 104	8	8–241	89	157 \pm 126	109	45.5–479	0.0011		
	Daidzein	37	263 \pm 351	89	89–1020	100	12,700 \pm 6710	10,710	3820–27,620	<0.0001		
	Daidzin	68	428 \pm 719	191	91–2730	100	63,690 \pm 40,170	65,640	9350–125,770	<0.0001		
	Genistein	58	153 \pm 272	47	47–947	100	11,760 \pm 6170	11,190	3990–26,530	<0.0001		
	Genistin	63	1000 \pm 1850	362	110–6700	100	118,150 \pm 75,850	113,270	157,180–249,320	<0.0001		
	Glycitein	5	—	—	324	89	4790 \pm 1840	4450	2220–8220	<0.0001		
	Glycitin	11	364 \pm 292	364	158–570	100	13,340 \pm 7920	12,070	1080–27,390	<0.0001		
	Ononin	5	—	—	46	100	176 \pm 28	153.3	46–512	<0.0001		
Other plant metabolites	Abscisic acid	42	1610 \pm 2860	574	273–8670	100	1660 \pm 636	1620	411–3270	0.0012		
	Anisodamine	16	514 \pm 373	470	164–907	16	137.2 \pm 101	141	34.5–236	0.375		
	Atropine	16	318 \pm 85	360	219–374	11	69.1 \pm 22.4	69.1	53.3–84.9	0.25		
	Hyoscine	16	427 \pm 391	473	15–794	11	215.7 \pm 93.1	216	150–282	0.375		
Bacterial	Nonactin	16	1 \pm 0	1	1–1	26	1.3 \pm 1.2	0.8	0.6–3.3	0.3906		

¹ Samples with values > limit of detection (LOD). ² Excluding data < LOD. In case values > LOD and < limit of quantification (LOQ), LOQ/2 was used for calculation. * Significant differences between each set of matched pairs presented p-value < 0.05. SD = Standard deviation; DM = Dry matter; + = metabolites classified as mycotoxins.

The authors state that the scientific conclusions are unaffected. The original publication has also been updated.

Reference

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