

Changes in the taxonomic and functional structure of microbial communities during vegetable waste silage fermentation

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SUPPLEMENTARY TABLES

Supplementary Table S1

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SUPPLEMENTARY FIGURES

Supplementary Figure S1

Supplementary Figure S2

Supplementary Table S1

The nutrient composition of silage materials							
Materials	DM	CP	EE	NDF	ADF	WSC	CA
	% FM	% DM					
Vegetable waste	8.57±0.16	15.63±0.21	3.26±0.11	21.86±0.78	16.22±0.42	11.49±0.07	13.17±0.06
Dry rice straw	91.76±1.41	5.54±0.08	2.88±0.03	81.59±0.54	49.48±1.12	3.47±0.04	5.73±0.03
Wheat bran	86.31±0.92	16.17±0.17	3.86±0.02	48.36±1.32	14.88±0.66	18.80±0.14	4.82±0.03

FM: fresh matter; DM: dry matter; CP: crude protein; EE: ether extract; NDF: neutral detergent fiber; ADF: acid detergent fiber; WSC: water soluble carbohydrate; CA: crude ash.

Supplementary Table S2

		logFC	logCPM	PValue	FDR
T0_vs_T12_ edgeR	k_Bacte1	-2.93992	12.08144	0.000207	0.000484
	k_Bacte1	-1.72309	6.529458	0.666667	0.666667
	k_Bacte1	-6.98342	8.607418	5.39E-05	0.000189
	k_Bacte1	-2.48912	6.639553	0.666667	0.666667
	k_Bacte1	14.60443	19.93409	0	0
	k_Bacte1	-1.72309	6.529458	0.666667	0.666667
	k_Bacte1	0.514344	18.40631	0.08951	0.156642
T0_vs_T345_ edgeR	k_Bacte1	-2.64935	12.28164	1.14E-09	4.00E-09
	k_Bacte1	-1.75164	6.839313	0.5	0.583333
	k_Bacte1	-1.64624	9.180076	0.023768	0.055459
	k_Bacte1	-0.49357	7.053842	0.732963	0.732963
	k_Bacte1	13.5469	19.41916	0	0
	k_Bacte1	-1.75164	6.839313	0.5	0.583333
	k_Bacte1	0.424074	18.74934	0.204346	0.357605
T12_vs_T34 5_edgeR	k_Bacte1	1.307226	10.33375	0.008856	0.020664
	k_Bacte1	0	7.037265	1	1
	k_Bacte1	4.707874	7.959577	9.59E-05	0.000671
	k_Bacte1	1.536457	7.132424	0.732208	1
	k_Bacte1	-0.03844	19.45076	0.261961	0.458432
	k_Bacte1	0	7.037265	1	1
	k_Bacte1	0.93452	18.14013	0.000775	0.002712

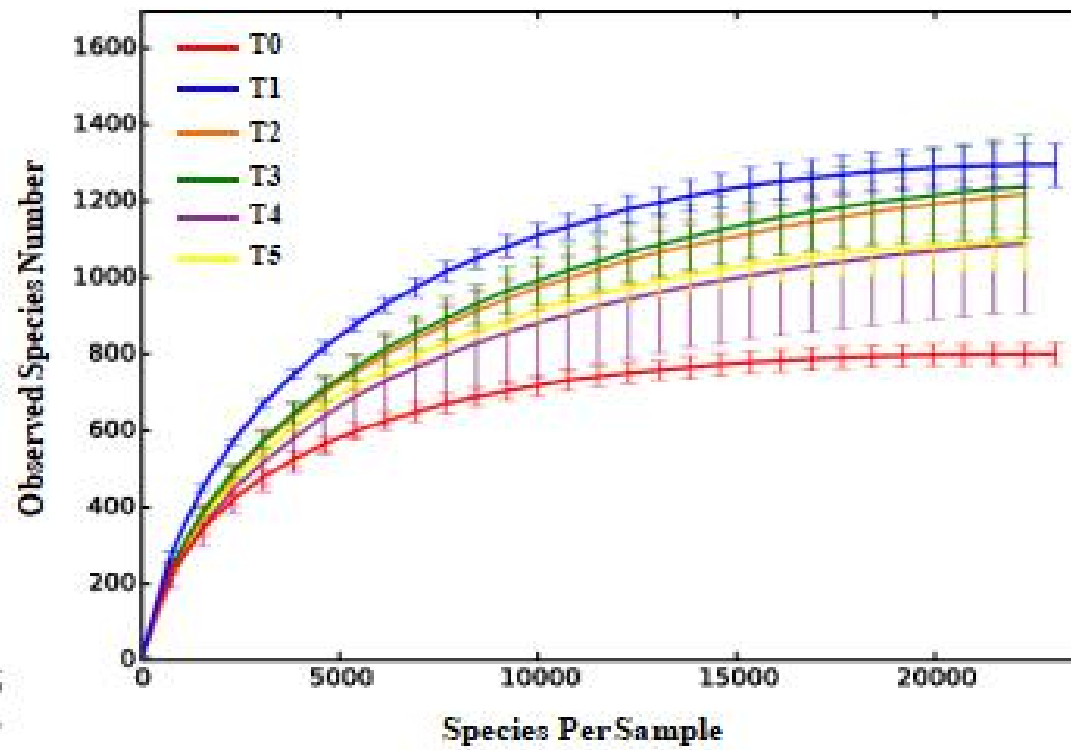
Supplementary Table S3

	T0 vs T12 edgeR				T0 vs T345 edgeR				T12 vs T345 edgeR			
	logFC	logCPM	PValue	FDR	logFC	logCPM	PValue	FDR	logFC	logCPM	PValue	FDR
k_Bacteria;p_	-2.1342	7.55828	0.09571	0.21614	-1.40270746	7.642866212	0.11675101	0.262778542	0.703086	7.312897	0.868979	1
k_Bacteria;p_	-4.4555	7.2664	0.02225	0.0634	-2.0267812	7.310241254	0.145911571	0.287263405	1.455045	7.08408	0.743175	1
k_Bacteria;p_	-4.8684	7.43043	0.00553	0.02112	-1.14208884	7.646242168	0.267527264	0.468172712	2.742649	7.272668	0.162016	1
k_Bacteria;p_	-3.8651	8.68117	0.00012	0.00089	-3.30193318	8.566178966	0.000149282	0.000752382	0.491597	7.406203	0.844144	1
k_Bacteria;p_	-4.1249	8.04336	0.00183	0.00793	-4.45773142	7.891635529	0.00050193	0.00234234	-0.25951	7.088971	1	1
k_Bacteria;p_	-4.7569	7.39228	0.01137	0.03978	-3.38892497	7.409579291	0.00538331	0.018332353	0.886286	7.032953	1	1
k_Bacteria;p_	0	6.60939	1	1	3.157387193	7.180060233	0.561998366	0.79085972	2.588336	7.244034	0.355586	1
k_Bacteria;p_	-2.2057	6.76034	0.66667	0.86598	-0.59160386	6.91202115	0.858966988	1	0.884715	7.028523	1	1
k_Bacteria;p_	-0.5146	7.98166	0.63053	0.86598	1.776657821	9.320481908	0.013505837	0.041505744	2.22075	8.821112	0.002018	0.042371
k_Bacteria;p_	1.8586	6.72123	1	1	0	6.770173791	1	1	-1.28737	7.033653	0.8	1
k_Bacteria;p_	-6.2919	8.17723	0.00011	0.00088	-4.81580986	8.014608161	8.42E-06	6.63E-05	0.886206	7.032953	1	1
k_Bacteria;p_	-2.8414	7.43994	0.04049	0.10413	-3.39735173	7.41546901	0.003777624	0.013999429	-0.39337	7.078249	1	1
k_Bacteria;p_	-4.1447	11.4408	1.29E-05	0.00012	-4.61680635	11.00885801	6.19E-12	7.79E-11	-0.66937	8.46168	0.432239	1
k_Bacteria;p_	-2.6658	6.83945	0.22272	0.38977	-2.626483	6.914805627	0.125241006	0.262778542	0	6.9862	1	1
k_Bacteria;p_	-4.642	8.31869	0.00053	0.00305	-4.77389619	7.98602493	1.48E-05	0.000103025	-0.39835	7.078889	1	1
k_Bacteria;p_	-3.1677	6.91283	0.09778	0.21614	-3.04625769	6.978300697	0.041198529	0.103820292	0	6.9862	1	1
k_Bacteria;p_	-3.4514	8.53979	0.00092	0.00482	-3.3227867	8.36575802	1.44E-05	0.000103025	0.069244	7.370305	1	1
k_Bacteria;p_	-4.2495	7.20193	0.01501	0.04666	-3.9797484	7.178972198	0.011755991	0.037031371	0	6.9862	1	1
k_Bacteria;p_	-3.3901	6.96508	0.08582	0.20794	-3.34565733	7.040201585	0.035445275	0.093043846	0	6.9862	1	1
k_Bacteria;p_	-2.6658	6.83945	0.22272	0.38977	-0.51654783	7.061831576	1	1	1.322604	7.070918	0.882556	1
k_Bacteria;p_	-2.1796	6.74162	0.66667	0.86598	-2.13287858	6.877489761	0.5	0.745351728	0	6.9862	1	1
k_Bacteria;p_	4.24726	7.34651	0.32521	0.53916	0	6.770173791	1	1	-3.55145	7.327788	0.049874	0.497359
k_Bacteria;p_	-2.5024	8.13775	0.00522	0.02055	-1.30725283	8.424729563	0.1348841	0.273439418	1.136845	7.699493	0.347903	1
k_Bacteria;p_	-2.7068	7.76417	0.01268	0.04097	-5.19855045	7.572975018	6.47E-05	0.000388463	-1.95651	7.078668	0.320846	1
k_Bacteria;p_	-6.0021	8.00547	0.00034	0.00215	-3.94334345	7.924424427	6.89E-05	0.000394649	1.429213	7.073851	0.720228	1
k_Bacteria;p_	-0.6185	6.88529	1	1	-2.4357615	6.91088092	0.217542483	0.397251491	-1.28743	7.032728	0.8	1
k_Bacteria;p_	-4.7855	8.92624	6.42E-05	0.00058	-2.35699387	8.847980784	0.002343568	0.009431607	2.00413	7.674463	0.08594	0.636965
k_Bacteria;p_	0	6.60939	1	1	4.186177562	7.567942073	0.171080531	0.331633029	3.613986	7.512	0.042006	0.481157
k_Bacteria;p_	-2.9402	6.8768	0.22272	0.38977	-2.8846142	6.947043715	0.127130574	0.262778542	0	6.9862	1	1
k_Bacteria;p_	-4.3	8.16016	0.00033	0.00215	-3.22537774	8.100931088	0.000915476	0.003977586	0.956271	7.210603	0.742917	1

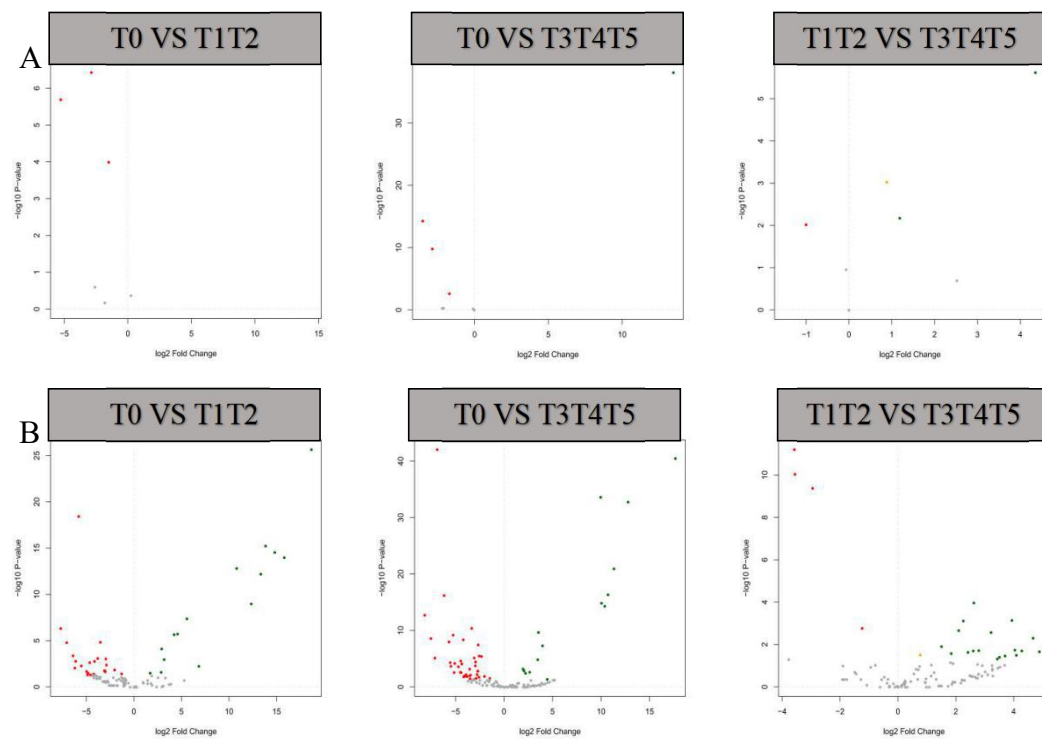
k_Bacteria;p_	-3.894	7.0934	0.02264	0.0634	-3.64317811	7.098075251	0.023601867	0.067587166	0	6.9862	1	1
k_Bacteria;p_	-3.8875	7.08031	0.0784	0.1937	-3.37499655	7.045219641	0.066213344	0.157412856	0	6.9862	1	1
k_Bacteria;p_	-3.1675	6.91283	0.09709	0.21614	-3.03400205	6.978300697	0.043911691	0.108487706	0	6.9862	1	1
k_Bacteria;p_	-2.9402	6.8768	0.22272	0.38977	-0.88240571	7.075264423	0.559461163	0.79085972	1.428382	7.078202	0.859827	1
k_Bacteria;p_	-2.2063	6.76034	0.66667	0.86598	-1.7985922	6.847105257	0.5	0.745351728	0	6.9862	1	1
k_Bacteria;p_	-2.4343	6.78211	0.66667	0.86598	-2.43661464	6.91088092	0.215879338	0.397251491	0	6.9862	1	1
k_Bacteria;p_	-1.8728	6.69944	0.66667	0.86598	0.145163598	6.989442187	1	1	1.429257	7.07456	0.720228	1
k_Bacteria;p_	-2.6683	6.82107	0.30339	0.50969	-1.48683375	7.008663306	0.38873198	0.636106876	0.885935	7.032953	1	1
k_Bacteria;p_	-3.0795	6.90408	0.10508	0.22442	-1.57196989	7.015864115	0.339343693	0.570097404	0.884913	7.032008	1	1
k_Bacteria;p_	-6.793	8.50964	6.9E-06	4.93E-05	-1.89752222	8.893509062	0.005853365	0.019408527	4.245008	7.741978	0.001329	0.033501
k_Bacteria;p_	-2.6622	6.80178	0.22272	0.38977	-0.82580899	7.072790409	0.541419519	0.784124821	1.429394	7.077228	0.720797	1
k_Bacteria;p_	-2.6728	6.8212	0.30196	0.50969	-3.10309643	6.977899145	0.121485205	0.262778542	0	6.9862	1	1
k_Bacteria;p_	0	6.60939	1	1	3.13857087	7.197616549	0.654852417	0.887219404	2.584695	7.256869	0.478613	1
k_Bacteria;p_	1.91929	7.32489	0.46336	0.7485	0.489914221	7.118578966	1	1	-1.41726	7.390302	0.336155	1
k_Bacteria;p_	0	6.60939	1	1	2.494214601	7.009377606	0.924133249	1	1.693996	7.111302	0.876583	1
k_Bacteria;p_	17.4821	19.5066	6.95E-27	8.76E-25	17.10468859	19.45999476	6.00E-40	3.78E-38	-0.2813	19.40014	0.423445	1
k_Bacteria;p_	14.6553	16.6801	6.55E-14	2.06E-12	10.73496025	13.10271238	2.35E-19	5.91E-18	-3.81347	15.57256	4.58E-14	5.77E-12
k_Bacteria;p_	13.6842	15.7095	1.86E-14	7.80E-13	9.827955302	12.20657737	1.22E-13	1.92E-12	-3.73919	14.62878	2.41E-13	1.52E-11
k_Bacteria;p_	11.137	13.1724	4.19E-08	5.87E-07	10.04730896	12.42300127	9.52E-16	2.00E-14	-1.02742	12.80422	0.06522	0.586981
k_Bacteria;p_	12.7163	14.7433	1.02E-13	2.57E-12	9.359676308	11.74934772	7.94E-14	1.43E-12	-3.31908	13.76219	7.74E-13	3.25E-11
k_Bacteria;p_	5.51167	8.02275	0.02516	0.06892	4.183045017	7.532567382	0.127218183	0.262778542	-1.08116	7.940133	0.275208	1
k_Bacteria;p_	-1.8906	6.72046	0.66667	0.86598	0.159106219	7.077174845	1	1	1.818767	7.121081	0.538125	1
k_Bacteria;p_	0	6.60939	1	1	1.860555919	6.916386153	1	1	1.428521	7.078202	0.857192	1
k_Bacteria;p_	-2.198	6.76034	0.66667	0.86598	-1.79136355	6.847105257	0.5	0.745351728	0	6.9862	1	1
k_Bacteria;p_	-1.8728	6.69944	0.66667	0.86598	0.133655118	6.978784941	1	1	1.400063	7.076255	0.873065	1
k_Bacteria;p_	-2.1922	6.76034	0.66667	0.86598	1.716231901	7.339375935	0.754968854	0.980681192	2.948425	7.321252	0.183077	1
k_Bacteria;p_	0	6.60939	1	1	4.463291029	7.693618112	0.105781029	0.246822402	3.812463	7.578854	0.021391	0.29947
k_Bacteria;p_	-3.8954	7.90017	0.00065	0.00354	-0.9897322	8.399068633	0.19358408	0.364053643	2.788481	7.696121	0.025942	0.326867
k_Bacteria;p_	-1.8728	6.69944	0.66667	0.86598	0.571332077	7.053239664	1	1	1.819421	7.117503	0.442067	1
k_Bacteria;p_	-1.8885	6.72046	0.66667	0.86598	-0.21804391	7.016099736	1	1	1.429411	7.077272	0.720228	1
k_Bacteria;p_	-1.2734	10.43	0.11293	0.23715	-1.29984863	10.1290275	0.018853547	0.056560642	-0.22311	9.404273	0.72519	1
k_Bacteria;p_	-3.9298	7.09631	0.03755	0.09856	-0.56751669	7.369340946	0.788447335	0.993773964	2.35109	7.197966	0.338583	1
k_Bacteria;p_	-2.682	9.86465	0.00125	0.00585	-0.13899261	10.52324909	0.81066765	1	2.182339	9.613885	0.001239	0.033501

k__Bacteria;p__	-3.4925	6.98131	0.09949	0.21614	-0.59410978	7.290306706	0.788709495	0.993773964	2.17199	7.17147	0.335539	1
k__Bacteria;p__	-2.2237	7.23629	0.14694	0.29863	1.239166455	8.364534273	0.26679605	0.468172712	3.424203	7.967911	0.003489	0.062803
k__Bacteria;p__	-2.1988	6.74162	0.66667	0.86598	-0.29779111	7.011119381	1	1	1.429408	7.077228	0.720228	1
k__Bacteria;p__	-1.8851	6.72046	0.66667	0.86598	0.800965065	7.191922631	0.984560083	1	2.360828	7.199826	0.337489	1
k__Bacteria;p__	0	6.60939	1	1	2.363979247	6.993081799	0.784100581	0.993773964	1.799346	7.11846	0.531921	1
k__Bacteria;p__	-2.9402	6.8768	0.22272	0.38977	-2.88806091	6.947043715	0.126689002	0.262778542	0	6.9862	1	1
k__Bacteria;p__	-2.9402	6.8768	0.22272	0.38977	-2.89590561	6.947043715	0.125745107	0.262778542	0	6.9862	1	1
k__Bacteria;p__	1.87179	6.71443	1	1	1.893805921	6.91506387	1	1	0.156709	7.119801	1	1
k__Bacteria;p__	-3.4299	6.95596	0.09646	0.21614	-0.81139072	7.331611409	0.5648998	0.79085972	2.041209	7.153095	0.573091	1
k__Bacteria;p__	-2.505	10.9286	0.00213	0.00896	-1.14008879	11.29390383	0.034056294	0.091299852	1.248416	10.1055	0.051315	0.497359
k__Bacteria;p__	-2.6798	8.09373	0.01257	0.04097	-2.16243265	8.278248896	0.024402927	0.067719049	0.713721	7.500554	0.802942	1
k__Bacteria;p__	-5.2251	7.58728	0.00699	0.02591	-4.87318583	7.445380302	8.64E-05	0.000453587	0	6.9862	1	1
k__Bacteria;p__	-4.7494	7.39086	0.01267	0.04097	-4.54304896	7.332660098	0.000205862	0.000997637	0	6.9862	1	1
k__Bacteria;p__	0.83946	6.81704	0.95789	1	0.647031692	6.968934699	1	1	-0.10709	7.131889	1	1
k__Bacteria;p__	0	6.60939	1	1	2.794768403	7.07662452	0.724912072	0.954110576	2.042569	7.153095	0.568956	1
k__Bacteria;p__	-1.8728	6.69944	0.66667	0.86598	-1.75088694	6.842966734	0.5	0.745351728	0	6.9862	1	1
k__Bacteria;p__	0	6.60939	1	1	2.020806041	6.93285257	1	1	1.324746	7.070918	0.875449	1
k__Bacteria;p__	0	6.60939	1	1	2.944892276	7.118127829	0.538026583	0.784124821	2.354536	7.199571	0.35857	1
k__Bacteria;p__	-1.9719	8.98489	0.07627	0.19221	-1.87984661	9.194201969	0.023131339	0.067587166	0.379664	8.237306	0.859587	1
k__Bacteria;p__	0.73673	6.91978	1	1	2.306443509	7.727364652	0.289195592	0.499159515	1.894415	7.63774	0.156071	1
k__Bacteria;p__	-1.8922	6.72046	0.66667	0.86598	-2.21240197	6.878342663	0.5	0.745351728	0	6.9862	1	1
k__Bacteria;p__	0	6.60939	1	1	2.785116044	7.074900984	0.726941392	0.954110576	2.050524	7.153995	0.56676	1
k__Bacteria;p__	0	6.60939	1	1	1.237142526	6.844868838	1	1	0.885858	7.032953	1	1
k__Bacteria;p__	0	6.60939	1	1	3.895552343	7.437094439	0.243133406	0.43764013	3.328794	7.422151	0.07458	0.587319
k__Bacteria;p__	1.87179	6.71443	1	1	1.295411518	6.853190657	1	1	-0.40255	7.072989	1	1
k__Bacteria;p__	-3.1264	6.89538	0.24527	0.42335	0.192183659	7.490187376	1	1	2.887837	7.304146	0.11215	0.785049
k__Bacteria;p__	0	6.60939	1	1	2.019607173	6.93285257	1	1	1.325486	7.070918	0.873068	1
k__Bacteria;p__	0.25379	7.8726	1	1	0.577434527	8.093259705	0.603834589	0.836078661	0.233323	7.942124	0.948929	1
k__Bacteria;p__	0	6.60939	1	1	3.540734862	7.299991402	0.420858781	0.6798488	2.929023	7.317956	0.198872	1
k__Bacteria;p__	0.54497	10.1233	0.61569	0.86598	-0.27119687	10.04849933	0.65142844	0.887219404	-0.24453	9.678156	0.703598	1
k__Bacteria;p__	1.14718	8.76904	0.44298	0.72488	1.119621203	9.259955229	0.316149693	0.538308936	0.68889	8.953436	0.356844	1
k__Bacteria;p__	12.109	14.1367	4.81E-12	8.66E-11	12.17664898	14.53564239	1.70E-34	5.37E-33	0.33803	14.35282	0.437524	1
k__Bacteria;p__	-1.1769	6.98015	0.81404	1	-3.15798508	7.006860077	0.040353163	0.103765276	-1.28702	7.028418	0.8	1

k_Bacteria;p_	3.25981	14.3085	0.00022	0.00156	3.291575957	14.65765631	1.01E-10	1.15E-09	0.33634	14.40964	0.371018	1
k_Bacteria;p_	3.03704	13.8133	0.00041	0.00246	3.235435472	14.32651525	3.79E-05	0.000238937	0.307772	14.03202	0.555787	1
k_Bacteria;p_	4.31905	12.8362	1.03E-06	1.29E-05	3.647065895	12.4669329	1.53E-07	1.38E-06	-0.503	12.56027	0.227022	1
k_Bacteria;p_	-6.9068	8.58794	4.38E-06	4.93E-05	-7.22419655	8.661033748	8.39E-09	8.81E-08	0	6.9862	1	1
k_Bacteria;p_	-6.2099	8.13828	0.0011	0.00535	-6.76246524	8.332913998	1.55E-05	0.000103025	0	6.9862	1	1
k_Bacteria;p_	-3.494	11.3171	0.00012	0.00089	-3.36936977	10.72162421	8.21E-07	6.89E-06	-0.28528	8.925216	0.776228	1
k_Bacteria;p_	9.69472	16.558	4.52E-13	9.49E-12	9.803013636	17.15545755	1.71E-41	2.16E-39	0.537131	16.89194	0.203535	1
k_Bacteria;p_	1.81827	10.8935	0.01042	0.03752	1.711610316	10.95520409	0.002529696	0.009658838	-0.15707	10.78286	0.687954	1
k_Bacteria;p_	1.86097	6.72123	1	1	3.553474607	7.277207794	0.182871502	0.349118323	1.653808	7.348723	0.247653	1
k_Bacteria;p_	-2.0819	15.5953	0.00097	0.00491	-2.55836687	15.54008054	1.44E-07	1.38E-06	-0.20419	13.93263	0.575572	1
k_Bacteria;p_	-4.0975	7.15172	0.01555	0.04666	-4.23099999	7.233219283	0.003911108	0.014079989	0	6.9862	1	1
k_Bacteria;p_	0	6.60939	1	1	1.89218288	6.919921834	1	1	1.401465	7.076343	0.871818	1
k_Bacteria;p_	-2.741	7.82611	0.13601	0.28094	-2.06990307	8.232590911	0.049277164	0.119402359	1.323229	7.456204	0.293647	1
k_Bacteria;p_	-4.8427	7.42617	0.00294	0.01194	-5.1121939	7.510544449	0.000525258	0.002363663	0	6.9862	1	1
k_Bacteria;p_	0.68147	7.41438	0.82957	1	0.093283058	7.46280364	1	1	-0.37194	7.504365	1	1
k_Bacteria;p_	-7.7458	9.19729	5.59E-09	8.81E-08	-7.84769258	9.109519172	1.94E-13	2.72E-12	0	6.9862	1	1
k_Bacteria;p_	1.50977	11.8987	0.20552	0.38977	0.399735983	11.62529484	0.673088567	0.9022251	-0.28573	11.39343	0.610696	1
k_Bacteria;p_	2.69529	6.85031	0.75975	0.97683	0	6.770173791	1	1	-1.77707	7.069293	0.405866	1
k_Bacteria;p_	1.98582	15.611	0.01984	0.05815	1.797822249	16.04350834	0.002175689	0.009137895	0.414583	15.6867	0.291411	1
k_Bacteria;p_	-4.3636	7.23995	0.0153	0.04666	-4.08465277	7.199156529	0.002395329	0.009431607	0	6.9862	1	1
k_Bacteria;p_	-3.4559	6.96458	0.09704	0.21614	-3.66738669	7.096097799	0.024722827	0.067719049	0	6.9862	1	1
k_Bacteria;p_	0	6.60939	1	1	2.693280051	7.053402736	0.502816642	0.745351728	2.122685	7.15709	0.445781	1
k_Bacteria;p_	-5.3802	7.6722	0.0017	0.00764	-5.24010579	7.590708375	7.67E-05	0.000420046	0	6.9862	1	1
k_Bacteria;p_	-7.1734	16.356	1.03E-23	6.52E-22	-7.39308333	15.91308843	1.89E-39	7.92E-38	-0.34857	10.24326	0.475862	1
k_Bacteria;p_	-4.347	7.24019	0.03474	0.09313	-4.82443926	7.39214143	0.005215605	0.018254616	0	6.9862	1	1
k_Bacteria;p_	-2.935	6.83063	0.22272	0.38977	-2.88022541	6.959775572	0.136719709	0.273439418	0	6.9862	1	1
k_Bacteria;p_	-2.9402	6.8768	0.22272	0.38977	1.972221292	7.87388215	0.372813107	0.618084888	3.736176	7.561723	0.073268	0.587319
k_Bacteria;p_	-2.4408	6.78211	0.66667	0.86598	0.435277416	7.218860811	1	1	2.366965	7.203028	0.425228	1
k_Bacteria;p_	0.47978	9.92154	0.56757	0.86598	2.367960635	11.52741805	0.006698581	0.021641571	1.711215	10.83028	0.007154	0.112677
k_Bacteria;p_	-0.2639	9.4057	0.77358	0.98456	-0.53555135	9.189390238	0.45880223	0.731760518	-0.34142	8.822182	0.60811	1



Supplementary Fig. S1 rarefaction curve T0: day 0, T1: day 7, T2: day 15, T3: day 30, T4: day 45, T5: day 60.



Supplementary Fig. S2 Volcano plots illustrating OTUs that were significantly enriched (green) and depleted (red) at phylum (A) and genus (B) levels in the silage samples with different days. T0: day 0, T1: day 7, T2: day 15, T3: day 30, T4: day 45, T5: day 60.