

Supplementary table S1: ANOSIM between different age groups.

Group 1	Group 2	Round 1		Round 2		Round 3	
		<i>p-value</i>	R value	<i>p-value</i>	R value	<i>p-value</i>	R value
Untreated hens	Day 2	0.0006	0.9373	0.0006	0.8887	0.0006	0.8635
	Day 7	0.0006	0.9098	0.0006	0.9037	0.0006	0.9018
	Day 14	0.0006	0.8699	0.0006	0.8559	0.0006	0.908
Day 2	Day 7	0.0006	0.2617	0.0006	0.5789	0.0006	0.3619
	Day 14	0.0006	0.7194	0.0006	0.7848	0.0006	0.6116
Day 7	Day 14	0.0006	0.3734	0.0006	0.3433	0.0006	0.2581

\* Bonferroni-corrected *p-values* are presented

Supplementary table S2: ANOSIM of chicks between different rounds.

Group 1	Group 2	Day 2		Day 7		Day 14	
		<i>p-value</i>	R value	<i>p-value</i>	R value	<i>p-value</i>	R value
Round 1	Round 2	0.0003	0.6006	0.0003	0.3552	0.0003	0.3964
	Round 3	0.0003	0.5236	0.0003	0.43	0.0003	0.3812
Round 2	Round 3	0.0003	0.292	0.0138	0.104	0.0003	0.2751

\* Bonferroni-corrected *p-values* are presented

Supplementary table S3: ANOSIM of untreated hen samples in different rounds.

		Bray-Curtis		Jaccard	
Group 1	Group 2	<i>p-value</i>	R value	<i>p-value</i>	R value
Round 1	Round 2	0.0894	0.1053	0.2037	0.1076
	Round 3	1	-0.102	1	0.00147
Round 2	Round 3	0.4485	0.1725	0.4344	0.176

\* Bonferroni-corrected *p-values* are presented

Supplementary table S4: ANOSIM between treated and untreated hens.

Site	Bray-Curtis		Jaccard	
	<i>p-value</i>	R value	<i>p-value</i>	R value
Feces	0.0002	0.9775	0.0002	0.7609
Jejunum	0.0079	0.95	0.0079	0.8781
Cecum	0.029	1	0.03	1