

# Supplementary Material

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**Supplementary Table S1.** p-values resulting from the Bonferroni post-tests performed in the two ways ANOVA shown in Fig. 3

	p-value					
	Lipids		Amide I		Amide II	
	NO <sub>3</sub> <sup>-</sup>	NH <sub>4</sub> <sup>+</sup>	NO <sub>3</sub> <sup>-</sup>	NH <sub>4</sub> <sup>+</sup>	NO <sub>3</sub> <sup>-</sup>	NH <sub>4</sub> <sup>+</sup>
<b>MSX N+</b>						
Day 0 vs. Day 1	>0.05	>0.05	>0.05	>0.05	>0.05	>0.05
Day 0 vs. Day 2	<0.001	<0.01	>0.05	<0.001	<0.001	<0.05
Day 0 vs. Day 3	<0.001	<0.01	<0.05	<0.001	<0.001	<0.001
Day 1 vs. Day 2	<0.001	<0.001	<0.01	<0.001	<0.001	<0.01
Day 1 vs. Day 3	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001
Day 2 vs. Day 3	>0.05	>0.05	>0.05	<0.001	>0.05	>0.05
<b>AZA N+</b>						
Day 0 vs. Day 1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Day 0 vs. Day 2	<0.001	<0.001	<0.05	>0.05	>0.05	>0.05
Day 0 vs. Day 3	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001
Day 1 vs. Day 2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Day 1 vs. Day 3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Day 2 vs. Day 3	>0.05	>0.05	>0.05	<0.001	<0.05	<0.01
<b>AZA N-</b>						
Day 0 vs. Day 1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Day 0 vs. Day 2	<0.001	<0.001	<0.001	<0.05	<0.001	<0.001
Day 0 vs. Day 3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Day 1 vs. Day 2	>0.05	<0.001	<0.001	<0.001	<0.001	<0.001
Day 1 vs. Day 3	<0.05	<0.001	<0.001	>0.05	<0.001	<0.001
Day 2 vs. Day 3	>0.05	>0.05	>0.05	<0.001	>0.05	>0.05
<b>CHX N+</b>						
Day 0 vs. Day 1	<0.001	<0.001	<0.001	<0.001	>0.05	>0.05
Day 0 vs. Day 2	<0.001	>0.05	>0.05	<0.001	<0.001	<0.001
Day 0 vs. Day 3	<0.001	<0.05	<0.01	<0.001	<0.001	<0.001
Day 1 vs. Day 2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Day 1 vs. Day 3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Day 2 vs. Day 3	<0.05	<0.05	<0.01	<0.001	<0.001	<0.001
<b>CHX N-</b>						
Day 0 vs. Day 1	<0.001	>0.05	>0.05	<0.001	>0.05	>0.05
Day 0 vs. Day 2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Day 0 vs. Day 3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Day 1 vs. Day 2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Day 1 vs. Day 3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Day 2 vs. Day 3	>0.05	>0.05	<0.001	<0.001	<0.001	<0.001
<b>CAP N+</b>						
Day 0 vs. Day 1	<0.001	<0.01	<0.001	>0.05	>0.05	>0.05
Day 0 vs. Day 2	<0.001	<0.001	<0.001	>0.05	<0.001	<0.001
Day 0 vs. Day 3	<0.001	<0.001	<0.001	>0.05	>0.05	<0.01
Day 1 vs. Day 2	<0.001	<0.001	<0.001	>0.05	<0.01	<0.05
Day 1 vs. Day 3	<0.001	<0.001	<0.001	>0.05	>0.05	>0.05
Day 2 vs. Day 3	>0.05	>0.05	>0.05	>0.05	<0.01	>0.05
<b>CAP N-</b>						
Day 0 vs. Day 1	<0.001	<0.01	<0.01	<0.001	<0.05	<0.01
Day 0 vs. Day 2	<0.05	<0.001	<0.001	<0.001	<0.001	<0.001
Day 0 vs. Day 3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Day 1 vs. Day 2	<0.01	<0.001	<0.001	<0.01	<0.001	<0.001
Day 1 vs. Day 3	>0.05	<0.001	<0.001	>0.05	<0.001	<0.001
Day 2 vs. Day 3	<0.05	>0.05	<0.001	<0.001	<0.05	>0.05
<b>RIF N+</b>						
Day 0 vs. Day 1	<0.05	<0.001	<0.001	>0.05	>0.05	>0.05
Day 0 vs. Day 2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Day 0 vs. Day 3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Day 1 vs. Day 2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Day 1 vs. Day 3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Day 2 vs. Day 3	<0.001	<0.001	<0.001	<0.001	<0.01	<0.05
<b>RIF N-</b>						
Day 0 vs. Day 1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Day 0 vs. Day 2	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001
Day 0 vs. Day 3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Day 1 vs. Day 2	>0.05	<0.001	<0.001	<0.01	<0.001	<0.05
Day 1 vs. Day 3	>0.05	<0.001	<0.001	>0.05	<0.001	<0.001
Day 2 vs. Day 3	>0.05	>0.05	>0.05	>0.05	>0.05	>0.05

The Bonferroni post-test was used to compare means by row (comparing each column to all the other columns).

MSX, methylsulfoximine; AZA, azaserine; CHX, cycloheximide; CAP, chloramphenicol; RIF, rifampicin.