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Electronic Supplementary Information

Spectrochemical analyses of growth phase-related bacterial responses to low (environmentally relevant) concentrations of tetracycline and nanoparticulate silver

Naifu Jin¹, Kirk T. Semple¹, Longfei Jiang², Chunling Luo², Dayi Zhang^{1,3,*}, Francis L. Martin^{4,*}

¹*Lancaster Environment Centre, Lancaster University, Lancaster LA1 4YQ, UK;*

²*Guangzhou Institute of Geochemistry, Chinese Academy of Sciences, Guangzhou 510640, China;*

³*School of Environment, Tsinghua University, Beijing 100084, China;*

⁴*School of Pharmacy and Biomedical Sciences, University of Central Lancashire, Preston PR1 2HE, UK;*

***Corresponding authors:**

Francis L Martin, School of Pharmacy and Biomedical Sciences, University of Central Lancashire, Preston PR1 2HE, UK; Email: flmartin@uclan.ac.uk

Dayi Zhang, School of Environment, Tsinghua University, Beijing 100084, China; Email: d.zhang@lancaster.ac.uk

Table S1. Growth impact under each treatment (*M. vanbaalenii* PYR-1)

Treatment	Control	AgNP	Tetracycline	Binary
P-value	$P < 0.0001$	$P < 0.0001$	$P < 0.0001$	$P < 0.0001$
Are means significantly different? ($P < 0.05$)	Yes	Yes	Yes	Yes
Paired-group comparison	Significant?	Significant?	Significant?	Significant?
Log vs. Stationary	Yes (****)	Yes (****)	Yes (****)	Yes (****)
Log vs. Death	Yes (****)	Yes (****)	Yes (****)	Yes (****)
Stationary vs. Death	Yes (****)	Yes (****)	Yes (****)	Yes (****)

One-way analysis of variance (ANOVA) with Tukey's post hoc test.

Table S2. Growth impact under each treatment (*P. fluorescens*)

Treatment	Control	AgNP	Tetracycline	Binary
P-value	$P < 0.0001$	$P < 0.0001$	$P < 0.0001$	$P < 0.0001$
Are means significantly different? ($P < 0.05$)	Yes	Yes	Yes	Yes
Paired-group comparison	Significant?	Significant?	Significant?	Significant?
Log vs. Stationary	Yes (****)	Yes (****)	Yes (****)	Yes (****)
Log vs. Death	Yes (****)	Yes (****)	Yes (****)	Yes (****)
Stationary vs. Death	Yes (****)	Yes (****)	Yes (****)	Yes (****)

One-way analysis of variance (ANOVA) with Tukey's post hoc test.

Table S3. Treatment impact in each growth phase (*M. vanbaalenii* PYR-1)

Growth phase	Exponential	Stationary	Death
P-value	$P < 0.0001$	$P < 0.0001$	$P < 0.0001$
Are means significantly different? ($P < 0.05$)	Yes	Yes	Yes
One- or two-tailed P-value?	Two-tailed	Two-tailed	Two-tailed
Paired-group comparison	Significant?	Significant?	Significant?
Control vs. Silver	Yes (****)	Yes (****)	Yes (****)
Control vs. Tet	Yes (****)	Yes (****)	Yes (****)
Silver vs. Tet	Yes (****)	Yes (****)	Yes (****)
Control vs. Binary	Yes (****)	Yes (****)	Yes (****)

One-way analysis of variance (ANOVA) with Tukey's post hoc test.

Table S4. Treatment impact in each growth phase (*P. fluorescens*)

Growth phase	Exponential	Stationary	Death
P-value	$P < 0.0001$	$P < 0.0001$	$P < 0.0001$
Are means significantly different? ($P < 0.05$)	Yes	Yes	Yes
One- or two-tailed P-value?	Two-tailed	Two-tailed	Two-tailed
Paired-group comparison	Significant?	Significant?	Significant?
Control vs. Silver	Yes (****)	Yes (****)	Yes (****)
Control vs. Tet	Yes (****)	Yes (****)	Yes (****)
Silver vs. Tet	Yes (****)	Yes (****)	Yes (****)
Control vs. Binary	Yes (****)	Yes (****)	Yes (****)

One-way analysis of variance (ANOVA) with Tukey's post hoc test.