

Table S4. Statistics of relative bacterial bioluminescence intensity (Figure 6)

Samples	p
	Concentrations
Fe ₃ O ₄	>0.05
Fe ₃ O ₄ /APTES	>0.05
Fe ₃ O ₄ /HA	0.01
	Comparison by sample pairs
Fe ₃ O ₄ /APTES- Fe ₃ O ₄	0.01
Fe ₃ O ₄ /HA- Fe ₃ O ₄	>0.05
Fe ₃ O ₄ /HA- Fe ₃ O ₄ /APTES	0.01

Bioactivity in relation to control:

Samples		Concentrations, mg/L										
		7.5E-3		7.5E-2		7.5E-1		1.9E+0				
Fe ₃ O ₄ - control		7.5E-3		7.5E-2		7.5E-1		1.9E+0				
		>0.05		0.01		0.01		0.0001				
Fe ₃ O ₄ / APTES- control		0.01										
		1E-3		1E-2		1E-1		5E-1		1E+0		
		>0.05		>0.05		>0.05		>0.05		>0.05		
		>0.05										
Fe ₃ O ₄ / HA- control		1E-5	4.6E-5	9.3E-5	4.6E-4	9.3E-4	4.6E-3	9.3E-3	4.6E-2	9.3E-2	4E-1	9E-1
		>0.05	>0.05	>0.05	>0.05	0.01	0.01	0.01	0.001	0.001	0.001	0.001
		>0.05										
		0.001										