

Table S2. Statistics of relative enzyme bioluminescence intensity (Figure 7)

Samples		P												
		Concentrations												
Fe ₃ O ₄		>0.05												
Fe ₃ O ₄ /APTES		0.001												
Fe ₃ O ₄ /HA		0.0001												
		Comparison by sample pairs												
Fe ₃ O ₄ /APTES- Fe ₃ O ₄		0.001												
Fe ₃ O ₄ /HA- Fe ₃ O ₄		0.0001												
Fe ₃ O ₄ /HA- Fe ₃ O ₄ /APTES		>0.05												
Bioactivity in relation to control:														
Samples		Concentrations, mg/L												
Fe ₃ O ₄ - control	2.1E-13	2.1E-12	2.1E-11	2.1E-10	2.1E-7	2.1E-6	2.1E-5	2.1E-4	2.1E-3	2.1E-2	2.1E-1	2.1E+0		
	0.001	0.001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001		
0.0001														
Fe ₃ O ₄ / APTES- control	6.8E-14	6.8E-13	6.8E-12	6.8E-11	6.8E-10	6.8E-8	6.8E-7	6.8E-6	6.8E-5	6.8E-4	6.8E-3	6.8E-2	6.8E-1	
	>0.05	0.0001	0.0001	0.0001	0.0001	0.001	>0.05	0.0001	0.0001	>0.05	0.0001	0.001	0.0001	
0.01														
Fe ₃ O ₄ / HA- control	8.5E-14	8.5E-13	8.5E-12	8.5E-11	8.5E-10	8.5E-9	8.5E-8	8.5E-7	8.5E-6	8.5E-5	8.5E-4	8.5E-3	8.5E-2	8.5E-1
	>0.05	>0.05	0.01	>0.05	>0.05	>0.05	>0.05	0.01	0.01	0.01	0.01	>0.05	>0.05	0.001
>0.05														