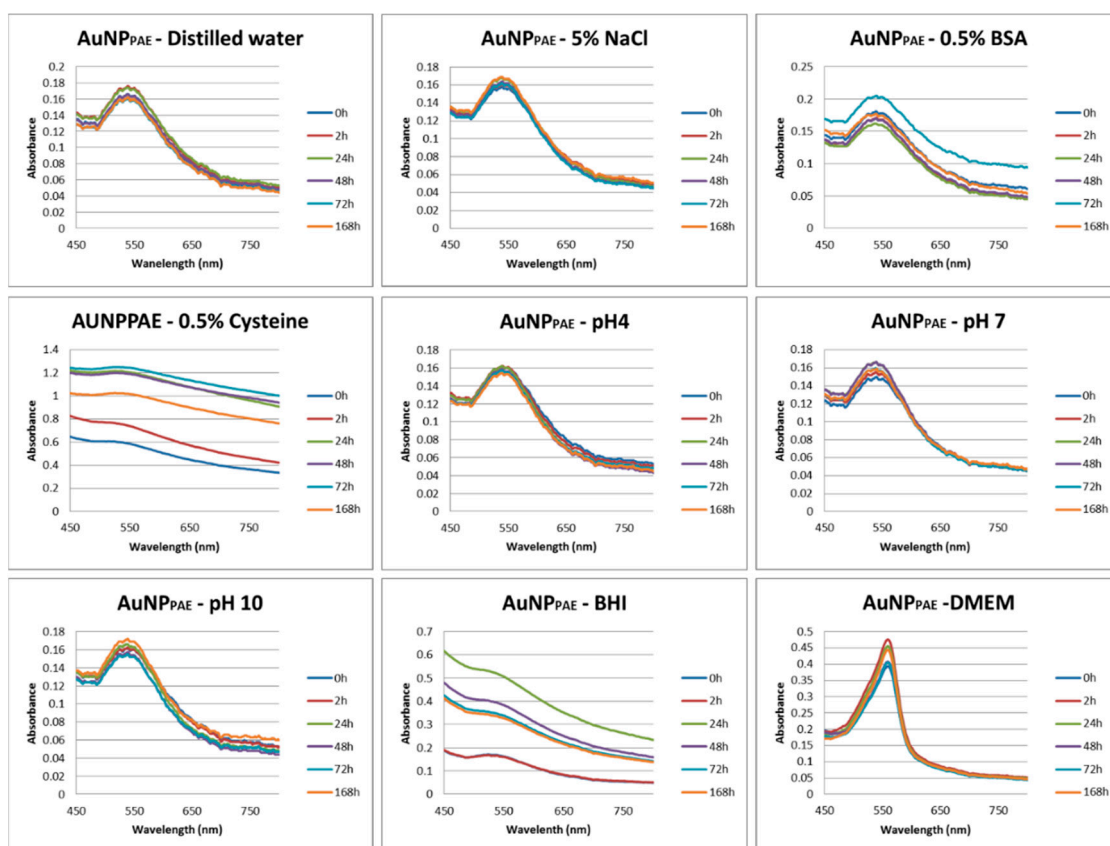


Article: Supplementary Material

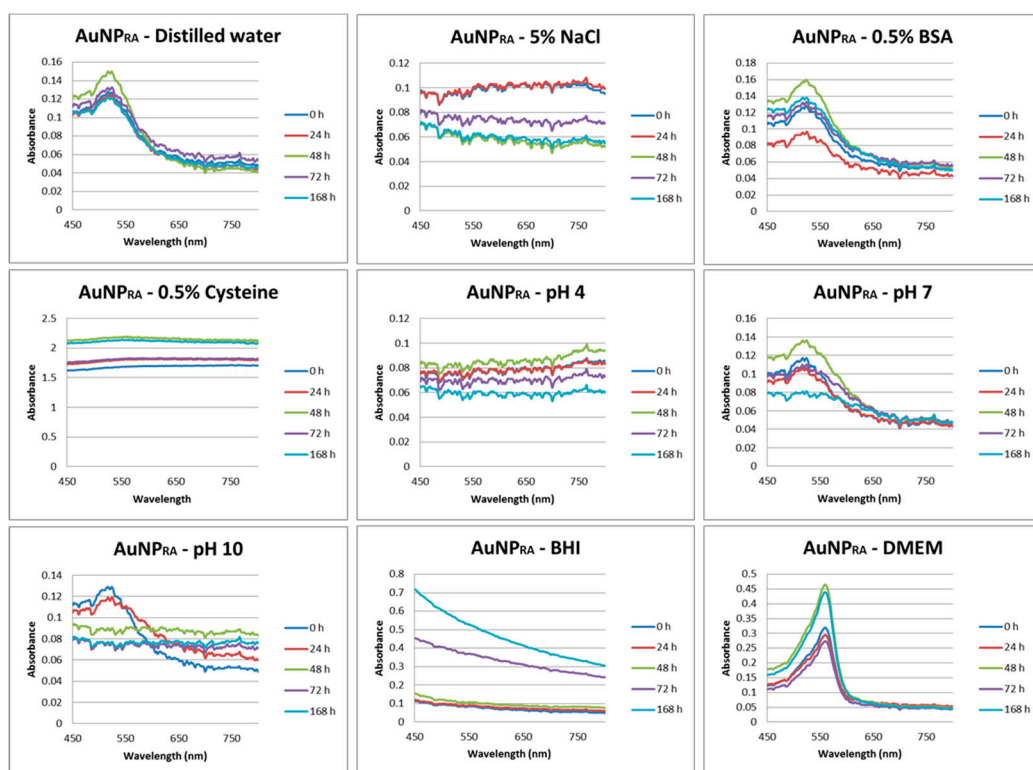
Targeting Acne Bacteria and Wound Healing In Vitro Using *Plectranthus aliciae*, Rosmarinic Acid, and Tetracycline Gold Nanoparticles

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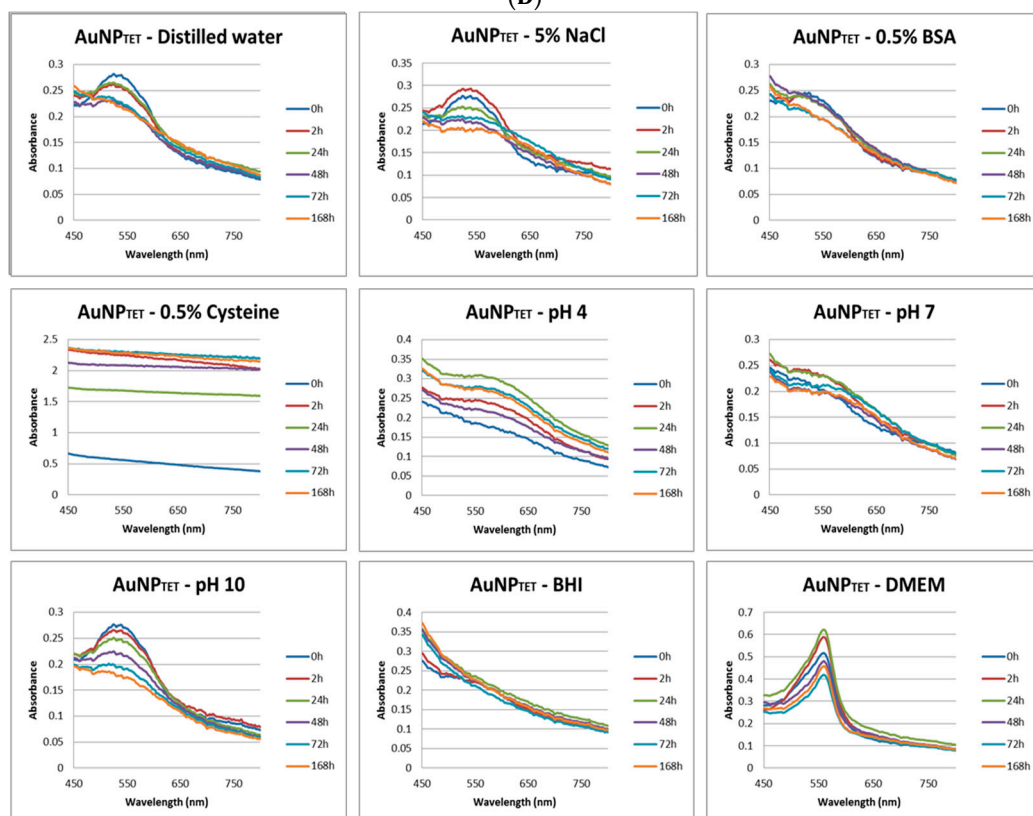
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(A)



(B)



(C)

Figure S1: Ultraviolet-visible spectroscopy (UV-Vis) and stability studies of biosynthesised gold nanoparticles (AuNPs) at various time intervals under various physiological conditions. (A) Biosynthesised *Plectranthus aliciae* AuNPs (AuNPPAE); (B) biosynthesised rosmarinic acid AuNPs (AuNPRa); (C) biosynthesised tetracycline AuNPs (AuNPTET) in NaCl: sodium chloride; BSA: bovine serum albumin; BHI: brain heart infusion broth; DMEM: Dulbecco's Modified Eagle Medium.

Table S1: Functional groups identified with Fourier Transform Infrared Spectroscopy.

Sample	Control		AuNP		Group (stretching)	Compound class	Reference
	WL (cm ⁻¹)	% T	WL (cm ⁻¹)	% T			
<i>Plectranthus aliciae</i>	3728	98.30	3727	98.15	O-H stretching	Free alcohol	[33,34]
	3361	80.49	3272	48.85	N-H stretching	Aliphatic primary amine	[33,34]
	2360	80.73	2360	87.08	O=C=O stretching	Carbon dioxide	[34,35]
	2342	85.04	2342	89.61	O=C=O stretching	Carbon dioxide	[34,35]
	2075	98.49	2075	95.69	N=C=S stretching	isothiocyanate	[33,34]
	1635	83.37	1636	70.84	C=C OR N-H bending	Alkene OR amine	[33,34]
Rosmarinic acid	3772	95.82	3772	98.64	O-H stretching	Free alcohol	[33,34]
	3302	77.01	3302	48.77	O-H stretching	Carboxylic acid	[33,34]
	2360	70.61	2360	76.02	O=C=O stretching	Carbon dioxide	[34,35]
	2342	76.24	2342	80.97	O=C=O stretching	Carbon dioxide	[34,35]
	1647	71.90	1636	70.85	C=C stretching	alkene	[34]
	1348	46.25	1356	91.10	O-H bending	phenol	[34]
	1259	34.69	1253	90.95	C-O	aromatic ester	[34]

	1152	23.96	1150	90.92	C-O stretching	aliphatic ether	[33,34]
	669	52.34	668	39.41	C=C bending	alkene	[34]
Tetracycline	3728	91.06	3728	95.89	O-H stretching	free alcohol	[33]
	3705	91.90	3696	95.64	O-H stretching	Free alcohol	[33]
	3626	90.43	3623	85.22	O-H stretching	Free alcohol	[33]
	3301	82.30	3304	48.62	N-H stretching	aliphatic primary amine	[33,34]
	2361	57.06	2361	64.48	O=C=O stretching	Carbon dioxide	[34,35]
	2342	64.48	2342	71.77	O=C=O stretching	Carbon dioxide	[34,35]
	1641	75.89	1635	70.77	C=C or N-H bending	cyclic alkene or amine	[34]
	1409	90.79	1393	65.60	O-H bending	alcohol	[33,34]
	1252	90.72	1255	65.35	C-O stretching	aromatic ester or alkyl aryl ether	[33,34]
	1161	90.63	1176	65.45	C-N stretching	amine	[33,34]
	1060	90.32	1065	71.41	C-O stretching	primary alcohol	[33,34]
	669	53.99	669	37.81	C=C bending	alkene	[34]