

Eco-friendly Nanoparticles from *Fusarium solani* Suppress Biofilms and Quorum Sensing in *Pseudomonas aeruginosa*

Karokh Ali Khdir¹ , Sirwan Muhsin Muhammed² 

¹Biology Department, College of Education, University of Sulaimani, Sulaymaniyah,
Kurdistan Region, 46001, Iraq

²Biology Department, College of Science, University of Sulaimani, Sulaymaniyah,
Kurdistan Region, 46001, Iraq

Corresponding author

Karokh Ali Khdir

¹karokh.khdir@univsul.edu.iq

²sirwan.muhammed@univsul.edu.iq

Identification tests	Results
Gram staining	Gram negative bacilli, singly or in pairs
Cetrimide agar	The colonies were round, convex and mucoid with blue-green and yellow-green pigmentations
MacConkey agar	Colonies were flat, smooth and non- lactose fermenter with a little pigmentation
Catalase	Positive
Oxidase	Positive
Highly automatic BD Phoenix™ M50 identification system	Showed <i>P. aeruginosa</i>

Table S1. List of phenotypic characteristics used in identification of *P.aeruginosa*

Samples	Annealing (°C)	D (nm)	δ (nm ⁻²)	ϵ	d-spacing (Å)	ρ_x (g/cm ³)	SSA (m ² /g)	Porosity (%)
AgNPs	80	18.49	0.00293	0.00574	2.356	10.53	30.82	97.15
	150	22.34	0.00200	0.00475	2.358	10.51	25.56	97.03
	200	18.29	0.00299	0.00580	2.358	10.52	31.19	97.05
	250	20.07	0.00248	0.00528	2.356	10.53	28.40	97.04
CuNPs	80	29.23	0.00117	0.00322	2.089	8.91	23.03	96.19
	150	26.68	0.00141	0.00352	2.085	8.96	25.11	96.65
	200	27.18	0.00135	0.00345	2.086	8.95	24.67	96.42

	250	28.33	0.00125	0.00331	2.086	8.95	23.65	96.31
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Table S2. Crystallite size (D), dislocation (δ), strain (ϵ), d-spacing (\AA), X-ray density (ρ_x), specific surface area (SSA), and porosity percentage of AgNPs and CuNPs annealed at different annealing temperatures.

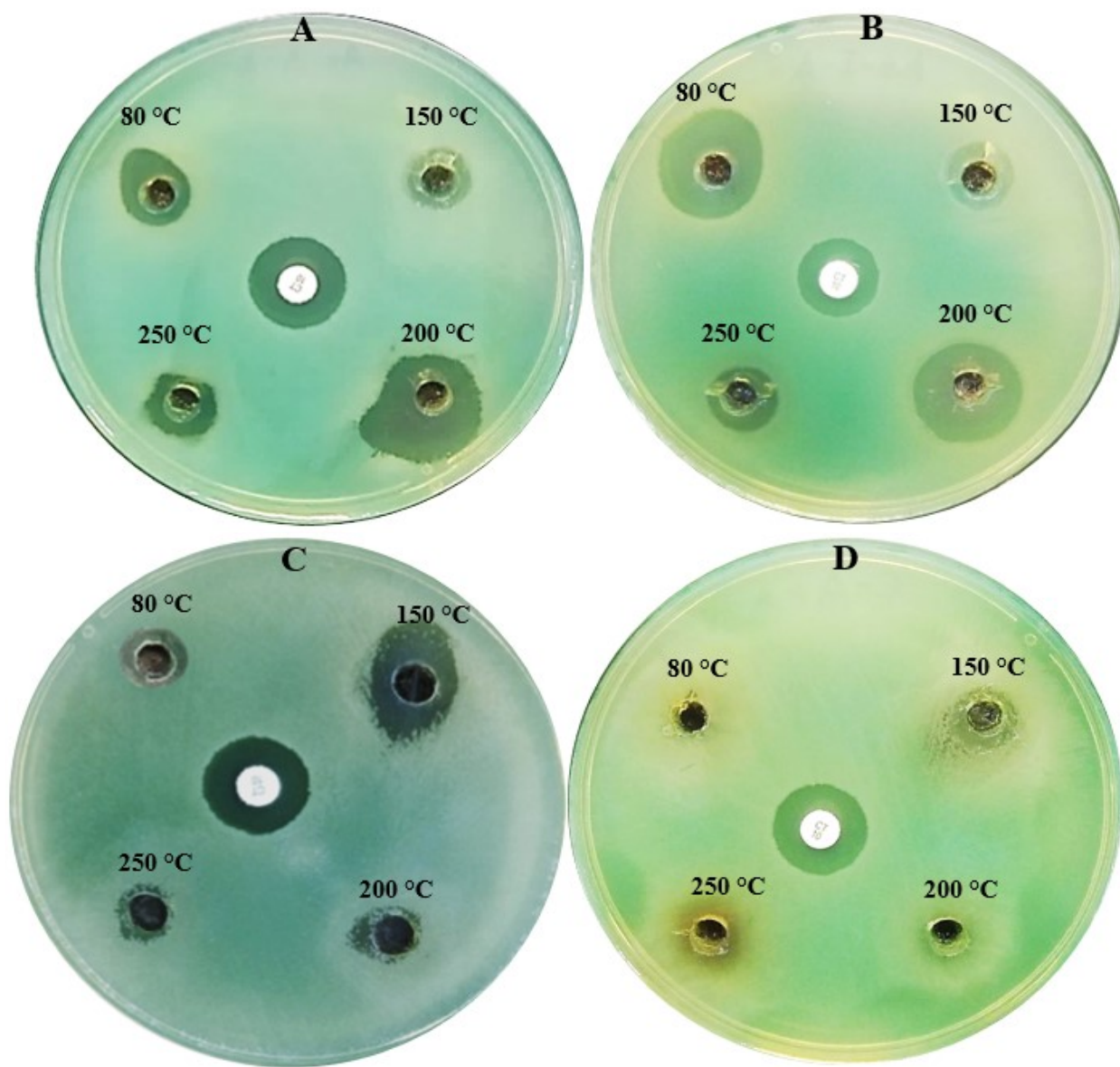


Figure S1. Antibacterial activity of AgNPs and CuNPs at different annealing temperatures of 80, 150, 200, and 250 °C using well diffusion agar method. A (AgNPs against ATCC), B (AgNPs against isolate), C (CuNPs against ATCC), and D (CuNPs against isolate). Positive control is colistin (10 μg /disc).