

Metallic nanocrystallites and their interaction with microbial systems

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Abstrak

This brief discusses the impact of gold, silver, zinc oxide, and cerium oxide nanoparticles on the growth and viability of both Gram-negative and Gram-positive bacterium. Moreover, it analyses the relationship between bacterial growth inhibition, reactive oxygen species generation, the regulation of transcriptional stress genomes, and the toxicity of these materials. Finally, it reviews the specific metallic nanomaterials and highlights their modes of synthesis, reactivity at surfaces, and the importance of assay procedures in determining their toxicity levels.