Showcasing research from Professor Jan Paczesny's Research Group Living Materials, Institute of Physical Chemistry PAS, Warsaw, Poland.

Enhancing the antimicrobial activity of silver nanoparticles against ESKAPE bacteria and emerging fungal pathogens by using tea extracts

The spread of antibiotic resistance among pathogenic bacteria and fungi forces modern-day science to develop alternative strategies for eliminating microbes. In time, nanoparticles, especially silver nanoparticles (AgNPs), can supplement or even replace antibiotics in various applications. Using tea extracts, we synthesize tea-silver nanoparticles (TeaNPs) that prove their potential against the ESKAPE bacteria. TeaNPs are more efficient than conventional AgNPs and even antibiotics in some cases. Moreover, TeaNPs are effective in fighting emerging fungal pathogens – *Candida auris* and *Cryptococcus neoformans*.

As featured in:

See Jan Paczesny *et al.*, *Nanoscale Adv.*, 2023, **5**, 5786.

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