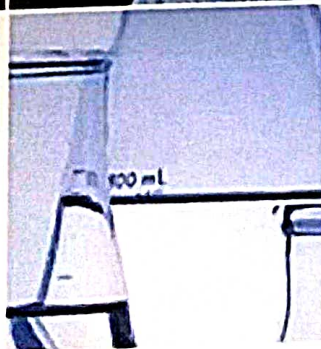
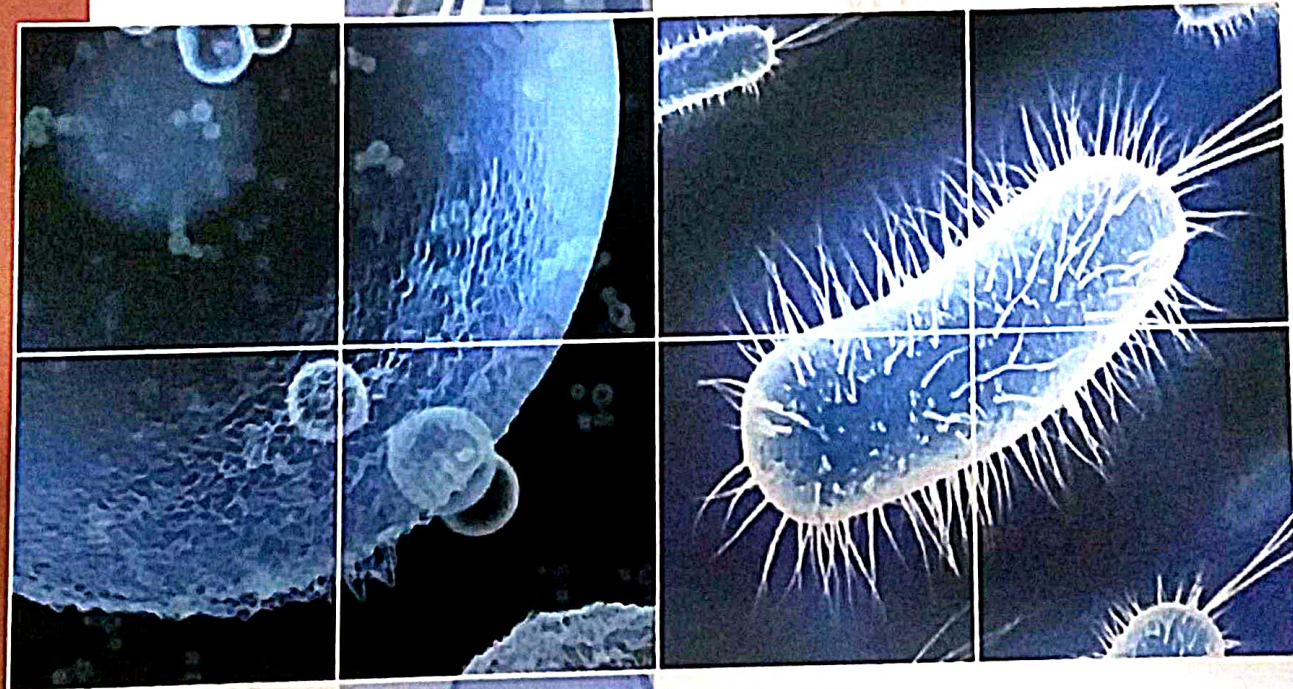


Frontiers in Anti-Infective Drug Discovery



Editors:

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Bentham Books

Phyto-Nano-Antimicrobials: Synthesis, Characterization, Discovery, and Advances

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Abstract: Nanotechnology has brought a revolution to the world of science and medicine. With time, the dependency on nanotechnological advancement is increasing. Synthesis of nano-scale modulators is a significant domain of focus that employs crude formulations, retro-synthesized, and pure chemicals, mostly from herbal sources with lesser side effects. However, all these methods suffer from drawbacks and limitations. For an eco-friendly nanoparticle synthesis, green chemistry has evolved with a tangential approach for the synthesis of metals (Au, Ag) and metal oxides (ZnO, CuO, TiO). Green synthesis uses plant extracts (leaves, stem, shoot) and microbes (bacteria, fungi, yeast) as reducing intermediate for the production of nanoparticles. The advantage of these extracts lies within the phenolic constituents of aldehydes, ketones, proteins, and other biomolecules that implicate the reduction of the nanoparticles.

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