

## **Biosynthesis of gold nanoparticles using the flower extract of *Azadirachta indica* (Neem) – Characterisation and antibacterial study**

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Gold nanoparticles (AuNPs) were synthesized using the aqueous extract of neem flower. The synthesis was optimized by varying the pH, temperature, extract volume and Au<sup>III</sup> concentrations. UV-Visible spectral analysis, HRTEM and XRD were characteristic of AuNps. Antibacterial activity of the synthesized AuNps showed promising results.

Keywords: Neem flower, gold nanoparticle, antibacterial activity.