

Electronic Supplementary Information

Green synthesis of multi-metallic nanocubes

Nabanita Patra,^a Ashoka Chary Taviti,^b Anupam Sahoo,^c Abhisek Pal,^a Tushar Kant
Beuria,^{*,b} Anindita Behera,^a *and Srikanta Patra^{c,*}

^a*School of Pharmaceutical Sciences, Siksha 'O' Anusandhan University, Sumpur, Bhubaneswar, Bhubaneswar-751003, Orissa, India, Email: anindita02@gmail.com*

^b*Institute of Life Sciences, Bhubaneswar, Odisha-751021, India, E-mail: tkbeuria@ils.res.in*

^c*School of Basic Sciences, Indian Institute of Technology Bhubaneswar, Jatni, Odisha-752050, India, Email: srikanta@iitbbs.ac.in*

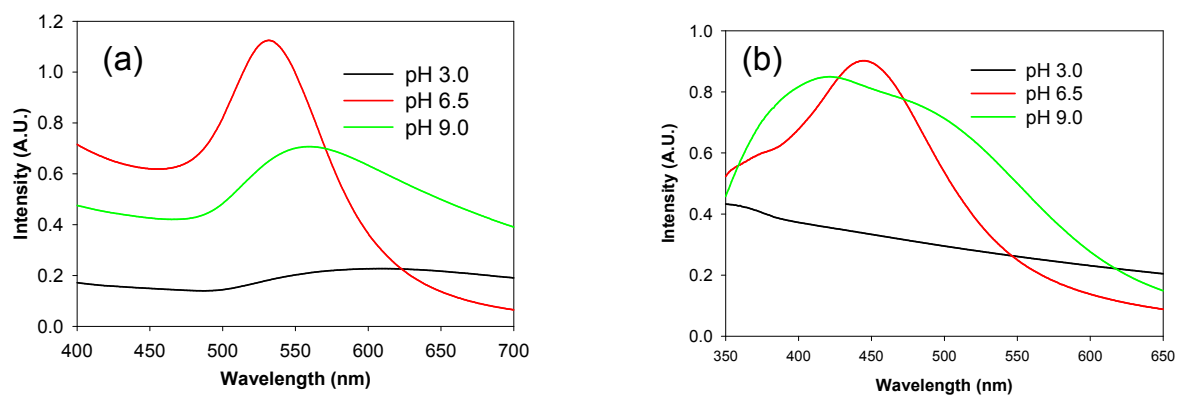


Fig. S1 UV-Vis spectra showing the effect of pH on (a) AuNP, (b) AgNP using 0.25 mM metal ions and 50 μ L *MC* flower extract.

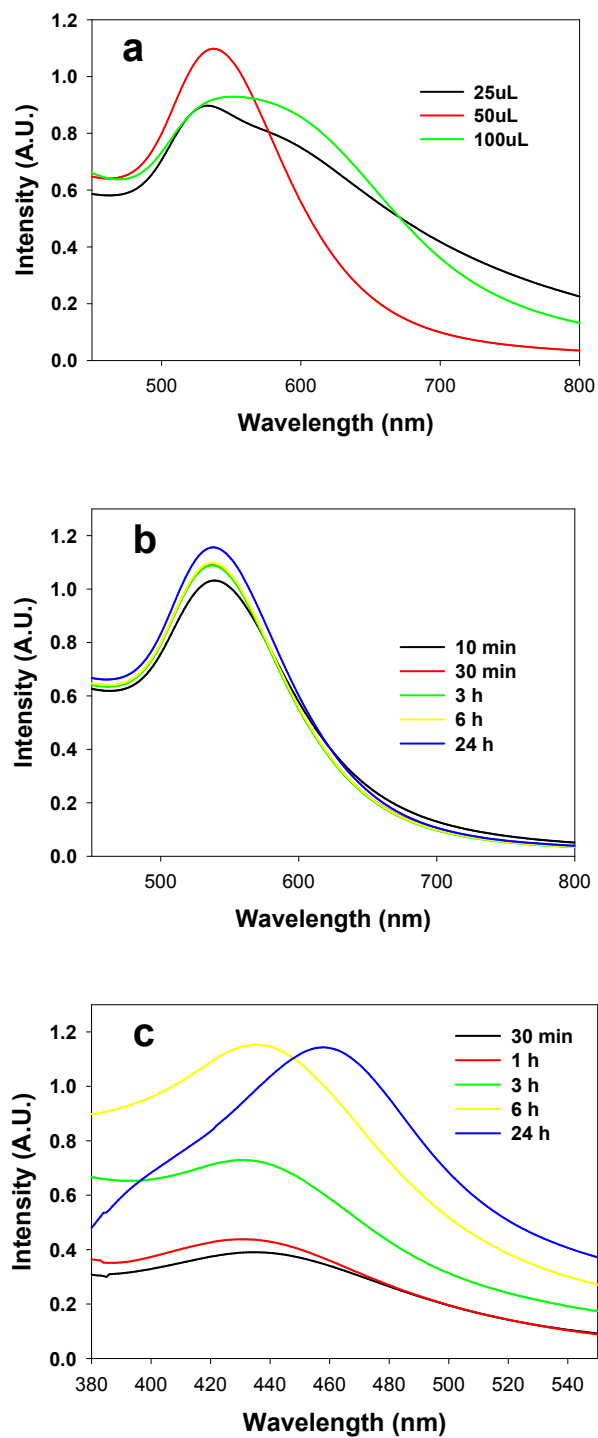


Fig. S2. UV-Vis spectra representing the effect of (a) extract volume on the formation of AuNP, and the effect of time on the formation of (b) AuNP and (c) AgNP using 50 μ L extract in 10 mL and 0.25 mM metal ions.

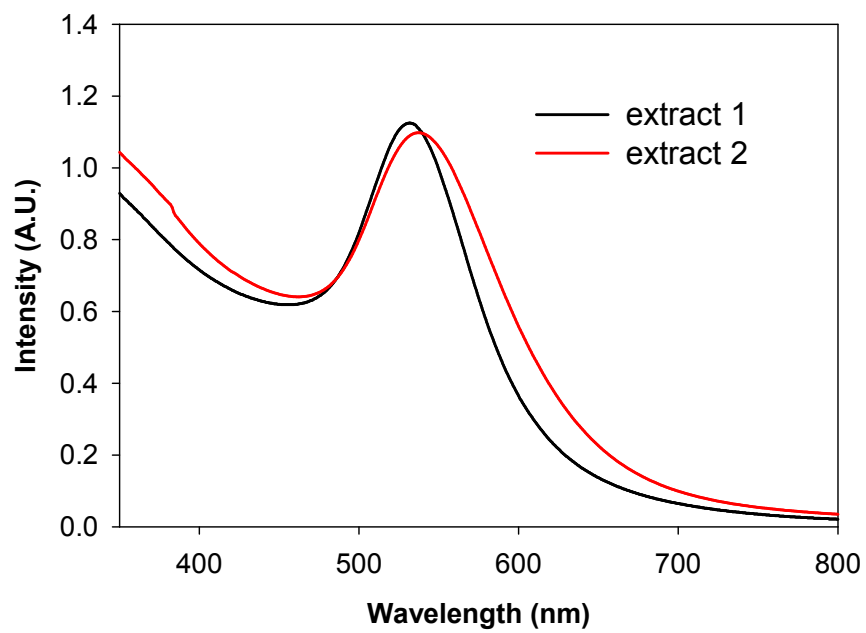


Fig. S3. UV-Vis spectra of AuNP prepared by using *MC* flower extracts collected from different places. Concentration of Au³⁺ ions 0.25 mM.

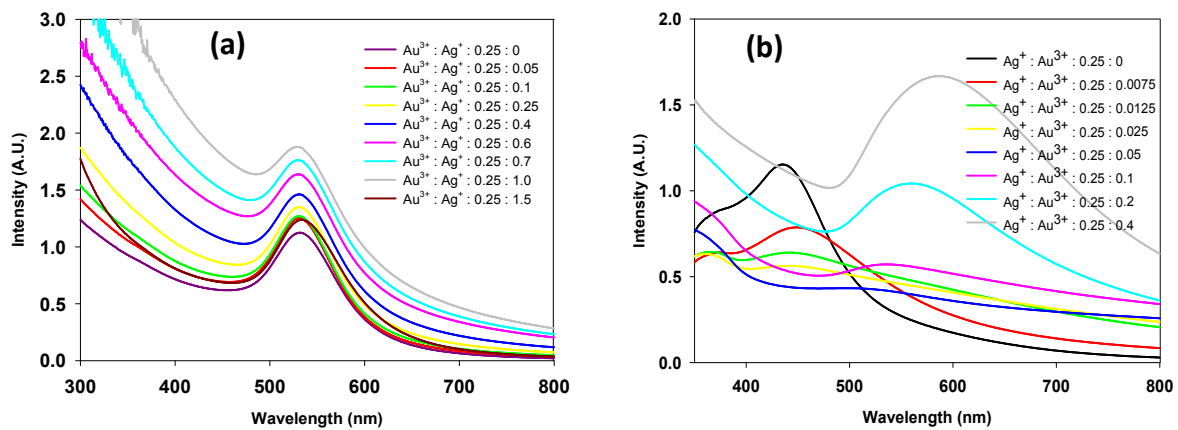


Fig. S4. UV-Vis spectra on the effect of addition of (a) Ag^+ ion to AuNP and (b) Au^{3+} ion to AgNP solution. Concentrations are in mM.

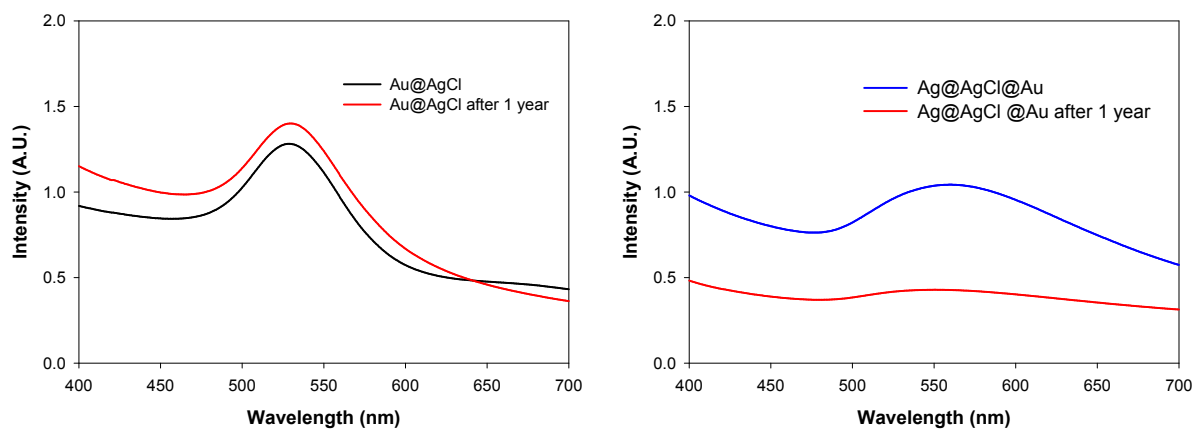


Fig. S5. UV-Vis spectra of as-synthesised (a) Au@AgClNP and (b) Ag@AgCl@AuNP before and after one year.

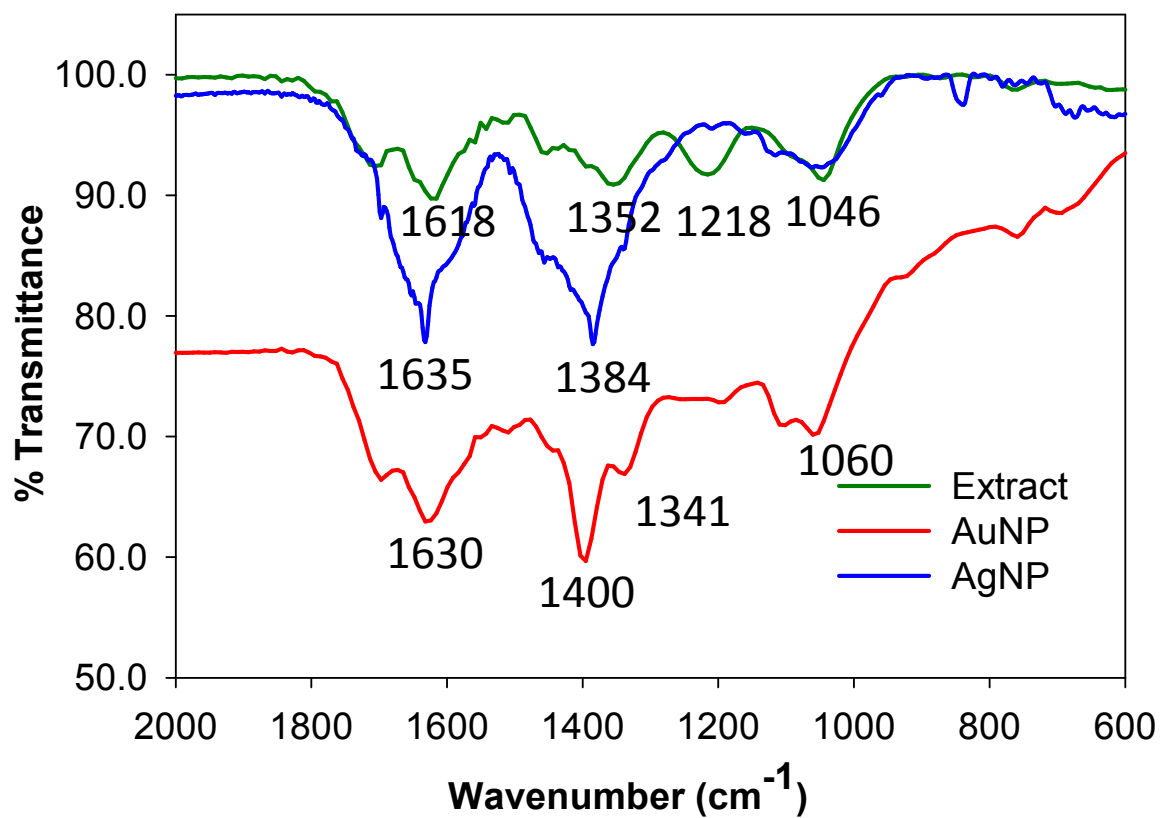


Fig. S6 FTIR spectra of *MC* flower extract and extract conjugated nanoparticles.

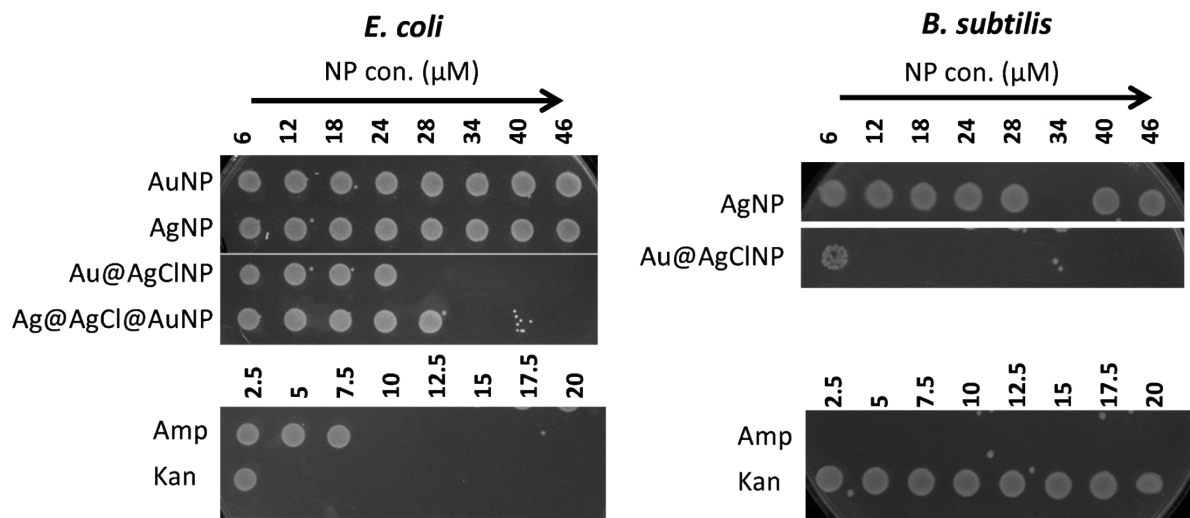


Fig. S7 MBC were determined by spotting culture after MIC on MH-agar plates and grown at 37 °C for 12 h.