

Plant mediated green synthesis of silver nanoparticles using aqueous leaf extracts of *Millingtonia hortensis* (L.) against MCF-7 cell line

Janaki A, Elumalai D, Hemalatha P, Babu M, Maheswari VN, Srikumaran MP, Velu K, Kaleena PK *.
Department of Zoology, Presidency College (Autonomous), Chennai- 600005, Tamilnadu, India.
Corresponding author email: pkkaleena@yahoo.co.in

From National Conference on Natural Products as therapeutics, Medical Microbiology, Nanobiology and System biology: Current Scenario & Emerging Trends, 'NATCON-2014'.

Post Graduate & Research Departments of Biochemistry, Microbiology, Biotechnology and Bioinformatics, Mohamed Sathak College of Arts & Science, Sholinganallur, Chennai-600119, India.
18-19 September 2014.

American J of Bio-pharm Biochem and Life Sci 2014 September, Vol. 4 (Suppl 1): P 36

ABSTRACT

In the present study, eco-friendly, non-toxic silver nanoparticles were biologically synthesised using leaf extracts of *Millingtonia hortensis* Linn. Formation of AgNPs was confirmed by surface plasmon spectra using UV-Vis spectrophotometer. Spectral techniques such as SEM, XRD, EDAX and FTIR were used to characterize the synthesized AgNPs. Anticancer activity of synthesized AgNPs was tested against human breast cancer cell lines. The results showed that the synthesized AgNPs act as an effective anticancer agent and hence has a great potential in the preparation of drug against cancer.