

9th Edition of International Conference on **Chemistry Science and Technology**
&
11th International Conference & Expo on **Chromatography Techniques**

April 22-24, 2019 Dublin, Ireland

Synthesis and characterisation of gold nanoparticles and their bioconjugates with bovine serum albumin and flavonoids

K M Sachin and Man Singh
Central University of Gujarat, India

The higher surface areas of the Gold nanoparticle (AuNPs) could induce the activities in the proteins molecules, and their interfacial linkages could be very dynamic in engineering the biochemical activities. Similarly, the globular protein and flavonoids have been the most effective biomolecule as an effective networking with AuNPs to develop functional nanobioconjugates with higher biological potentials in engineering. Thus, the AuNPs-BSA and AuNPs-Fv conjugates could offer distinct physical and chemical activities and acts as excellent scaffolds for employing them as carrier systems. In general, the AuNPs-BSA and AuNPs-Fv conjugates holds great potential for biomedical applications in sensing, diagnostic, therapeutic delivery control of protein activity and in imaging applications. We are synthesised AuNPs and functionalised with BSA and flavonoids and their AuNP-bioconjugates confirmed by using UV-vis spectroscopy, TEM, DLS, FTIR, TGD-TA and DSC analysis.