Comparative studies of protein functionalized Gold Nanoparticles by Atomic Force Microscopy (AFM) and Transmission electron microscopy (TEM)

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Gold nanoparticles, synthesized by classical citrate method are functionalized by bovine serum albumin for further biomedical purposes applying an appropriate experimental procedure. Following the same procedure azocazein functionalized gold nanoparticles were also prepared. At first the surface plazmon maxima of the protein functionalized gold nanoparticles (measured by UV-VIS spectroscopy) were detected in a red shifted spectra in comparison to the spectra of the pure gold nanoparticles. Then an experimental procedure by Atomic force microscopy (AFM) was implemented for the characterization of the bovine serum albumin functionalized gold nanoparticles. Finally, the AFM analysis was compared with the sample analysis from Transmission electron microscopy (TEM) images.

References:

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