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Category:Telugu-language web browsers Category:BrowsersNew Magnetic Nanoparticles Design for Bacteriophage Nanodevices. Owing to their unique optical properties and size-dependent optical phenomena, quantum dots have emerged as building blocks in a range of diagnostic and therapeutics application. Here, in order to broaden the potential of semiconductor nanocrystals as versatile building blocks of biotechnology and nanomedicine, a new and powerful method for the design and fabrication of nanoparticles based on magnetic cores, within the superparamagnetic regime, is described. These superparamagnetic nanoparticles have been obtained by rapid thermal decomposition of a magnesium-copper blend in an inert atmosphere. The chemical composition and morphology of the nanoparticles was characterized by means of X-ray diffraction, UV-vis spectroscopy, and scanning electron microscopy. The multiparametric analysis on the obtained nanoparticles reveals a size of 100 nm with a homogeneous size distribution and excellent stability for months under different environmental conditions. These magnetic nanoparticles have been conjugated with phages displaying peptides of interest by means of an antibody-antigen interaction. The obtained nanoparticles can thus act as magnetic carriers for the selective targeting of the phage phiX174, carrying a peptide sequence of interest, to the pathogen Escherichia coli. The process has been monitored by means of SQUID magnetometry, encapsulating the biomolecule within the nanoparticle. A bioconjugation ratio of about 80% has been achieved in the first case, while in the second case, a significant reduction in the bioconjugation efficiency has been observed. The phiX174-based nanoparticle has been subsequently used in a competitive phage-based ELISA to study E. coli antibiograms. The nanobiotechnology strategy here demonstrated shows promise in designing and fabricating magnetic nanoparticles with extraordinary properties, and can contribute to the development of novel strategies to fight infectious diseases, such as tuberculosis and malaria.Q: Java: Randomly go to a certain list of menu options I have a menu and would like to randomly pick from a subset of those options. Example: 1) User starts, first choice is 1) Choose a place. 2) User chooses 4) 3) User chooses 6) 4) User chooses 8) 6) User chooses 8) 8) User completes the App Even better would be to pick from

