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Genomic instability and mitochondrial DNA damage induction by nanoparticles


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Rapid growth in the uses and applications of nanoparticles increases the daily human exposure to nanoparticles in different routes that increasing the interest of scientists in estimating their toxic profile. Despite the varying results obtained on the genotoxicity and carcinogenicity of some nanoparticles, clastogenicity, genotoxicity and mutagenicity of several nanoparticles used daily including nickel oxide, cobalt oxide and calcium hydroxide nanoparticles have been demonstrated in our studies

Speaker Biography

Hanan Ramadan H Mohamed is an assistant professor of Molecular Genetics in Zoology Department; Faculty of Science Cairo University and one of the editorial board of both Aperiito journal of Liver and Pancreatic Disease and also Nano Research and application Journal. She obtained the M.Sc (2008) and ph.D degrees (2012) in Cyto and Molecular Genetics from Faculty of Science Cairo University. Now, teaching various courses in Faculty of Science Cairo University and has good experience in various techniques including Comet, micronucleus and chromosomal aberrations analysis assays and single strand conformational polymorphism (SSCP).

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