

Fluorescence Gold Nanoparticles: Sensing Properties and Cytotoxicity Studies in MCF-7 Human Breast Cancer Cells

Authors : Cristina Núñez, Rufina Bastida, Elena Labisbal, Alejandro Macías, María T. Pereira, José M. Vila

Abstract : A highly selective quinoline-based fluorescent sensor L was designed in order to functionalize gold nanoparticles (GNPs@L). The cytotoxicity of compound L and GNPs@L on the MCF-7 breast cancer cells was explored and it was observed that L and GNPs@L compounds induced apoptosis in MCF-7 cancer cells. The cellular uptake of the hybrid system GNPs@L was studied using confocal laser scanning microscopy (CLSM).

Keywords : cytotoxicity, fluorescent probes, nanoparticles, quinoline

Conference Title : ICBN 2016 : International Conference on Biotechnology and Nanotechnology

Conference Location : New York, United States

Conference Dates : October 10-11, 2016