Abstract

During last few years nanoparticles of different origin have been used in biomedicine. Their interactions with cells are however a big point of concern and so further research is needed to be done regarding their properties, internalization into cells and their fate within the cell. All of this is needed for correct selection of proper nanoparticles for bioimaging and also for future use in human medicine. One of the main parts of research is deep understanding of interactions of nanodiamonds and silicon based nanoparticles with cells, because of their highly unique properties (autofluorescence), biocompatibility and in case of silicon nanoparticles also their degradability.