

عنوان مقاله:

Comparative cytotoxicity assessment of copper oxide nanoparticles in two different cell lines

محل انتشار:

ششمین کنگره بین المللی توسعه کشاورزی و محیط زیست با تاکید بر برنامه توسعه ملل (سال: 1400)

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نویسنده:

Ehsan Zayeradeh - Department of Food Toxicology, Food Technology and Agricultural Products Research Center,
Standard Research Institute, Karaj, Iran

خلاصه مقاله:

Copper oxide nanoparticles have the huge number of applications in different industries. Thus, exposure with these nanoparticles is inevitable. In the present study, comparative toxic effects of these nanoparticles in HEK ۲۹۳ and Hep-G۲ cells were evaluated. A single dose of these nanoparticles was exposed to assess toxicity in these cells. Finally, our findings showed that copper oxide nanoparticles induced negative effects on cell morphology and induced cell death in Hep-G۲ cells. Moreover, these nanoparticles decreased cell viability in these cells. But there was no cytotoxicity in HEK ۲۹۳ cells. To conclude, copper oxide nanoparticles induced cytotoxicity in hepatic cells

کلمات کلیدی:

copper oxide nanoparticles, HEK ۲۹۳ cells, Hep-G۲ cells, cytotoxicity

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