

Accepted Manuscript

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PII: S0927-7765(17)30866-4
DOI: <https://doi.org/10.1016/j.colsurfb.2017.12.027>
Reference: COLSUB 9050

To appear in: *Colloids and Surfaces B: Biointerfaces*

Received date: 5-5-2017
Revised date: 12-12-2017
Accepted date: 14-12-2017

Please cite this article as: Hai-Hua Fan, Qiong Le, Sheng Lan, Jie-Xia Liang, Shao-Long Tie, Jia-Ling Xu, Modifying the mechanical properties of gold nanorods by copper doping and triggering their cytotoxicity with ultrasonic wave, *Colloids and Surfaces B: Biointerfaces* <https://doi.org/10.1016/j.colsurfb.2017.12.027>

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Modifying the mechanical properties of gold nanorods by copper doping and triggering their cytotoxicity with ultrasonic wave

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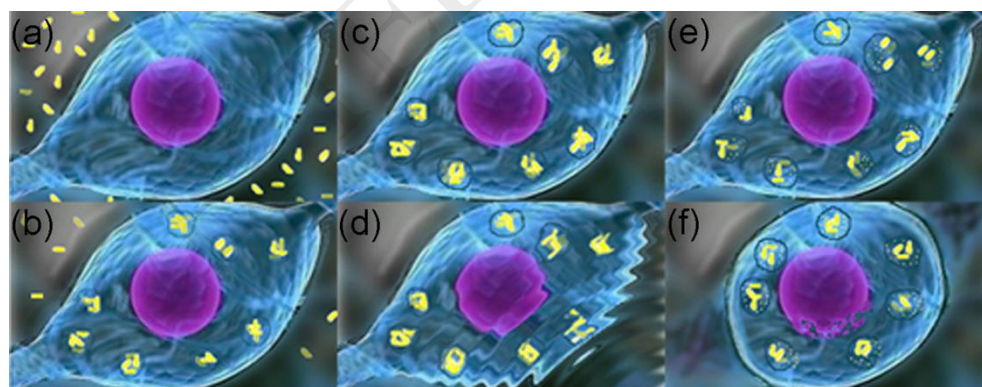
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Graphical abstracts:



Highlight:

- Au nanorods were found to be low cytotoxic to human liver hepatocellular carcinoma cells and normal liver cells.
- The mechanical properties of Au nanorods is modified by doping copper
- Cu-doped Au nanorods can be broken into Au nanoparticles smaller than 5nm under high-power ultrasonic wave.

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