Abstract Submitted
for the MAR11 Meeting of
The American Physical Society

The effect of Ag nanoparticles on PC3 cells ultraweak bioluminescence MARIUS HOSSU, XIAOJU ZOU, Univ Texas at Arlington, LUN MA, WEI CHEN, Univ Texas at Arlington — Ultraweak intrinsic bioluminescence of cancer cell is a noninvasive method of assessing bioenergetic status of the investigated cells. This weak emission generated by PC3 cell line was measured during various stages of growth with or without the presence of Ag nanoparticles. The comparison between nanoparticles concentration, bioluminescence and cell survival showed that even though Ag nanoparticles doesn't significantly affect cell survival at used concentration it affects cell metabolism, possibly making them more susceptible to other form of therapies.

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Date submitted: 30 Nov 2010 Electronic form version 1.4