



PHYSICS AND ASTRONOMY COLLOQUIUM

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“Lipids, Drugs and Metals: Ingredients for making therapeutically effective anticancer nanomedicines”

Abstract

One of the research projects that I completed during my PhD concerned the use of safranine, a dye used to assess mitochondrial membrane potentials. When this dye was added to liposomes with a transmembrane potential, the dye redistributed to the inside of the liposomes and under appropriate conditions >98% of the dye became trapped within the liposomes. This observation led to “remote” drug loading methods, where drugs were added to pre-