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(54) Title: COMPOSITIONS AND METHODS TO PREVENT CANCER WITH CUPREDOXINS

(57) Abstract: The present invention discloses methods and materials for delivering a cargo compound into a cancer cell. Delivery of the cargo compound is accomplished by the use of protein transduction domains derived from cupredoxins. The cargo compound may be a nucleic acid and specifically a DNA, RNA or anti-sense. The invention further discloses methods for treating cancer and diagnosing cancer.

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