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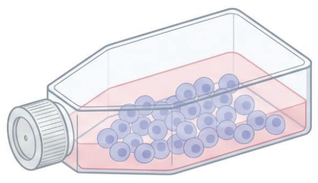
Zinc Chelation by TPEN Causes Dose-Dependent Death of NS20Y Cells

Exposing mouse cholinergic neuroblastoma (NS20Y) cells to the zinc chelator TPEN (0–5 μM) raised LDH release as concentration increased, at both 4 and 24 hours. Removing intracellular zinc injures these cells, which suggests that zinc balance is essential for neuronal cell survival.

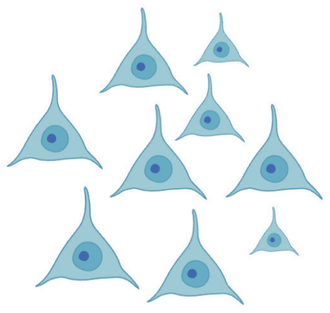


Mouse neuroblastoma source

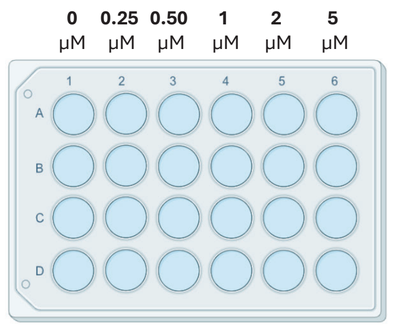
Isolation / Establishment



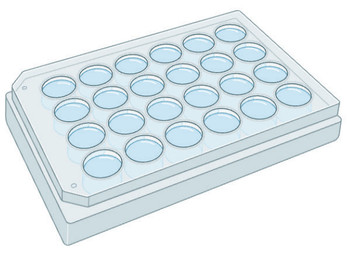
NS20Y cells
Cell culture



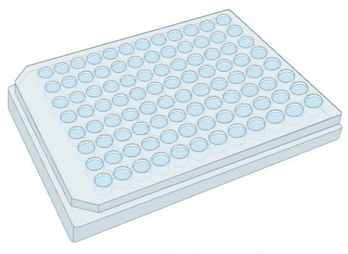
Sub cultured NS20Y cells



Sub cultured NS20Y cells with added TPEN

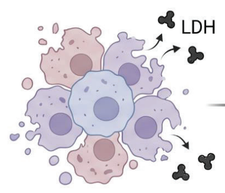


24-well plate of TPEN-exposed cells



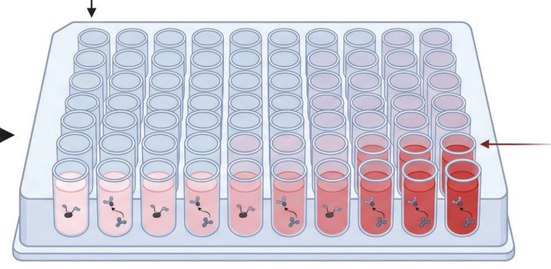
96-well plate of TPEN-exposed cells

Damaged cells release LDH

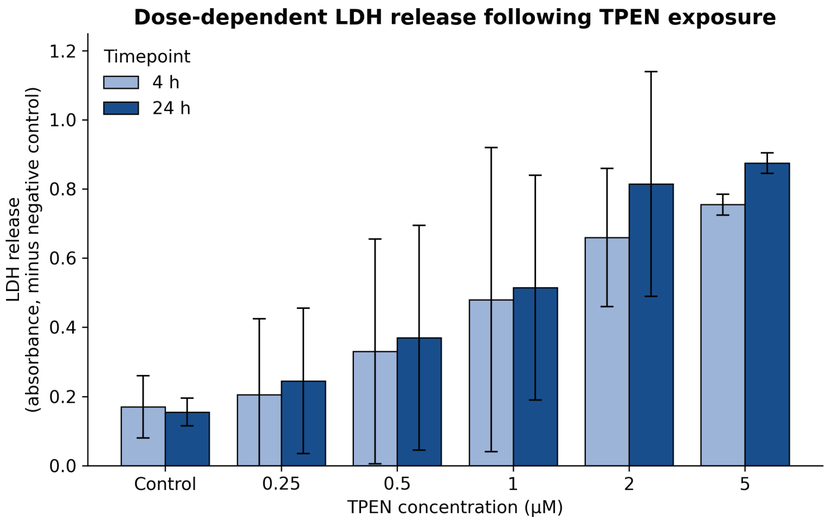


LDH assay reagent

Higher cytotoxicity = stronger red signal



Red color signal



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