

Supplemental information

Mesoporous Silica Nanoparticles for pH-responsive delivery of Iridium Metallotherapeutics and Treatment of Glioblastoma Multiforme

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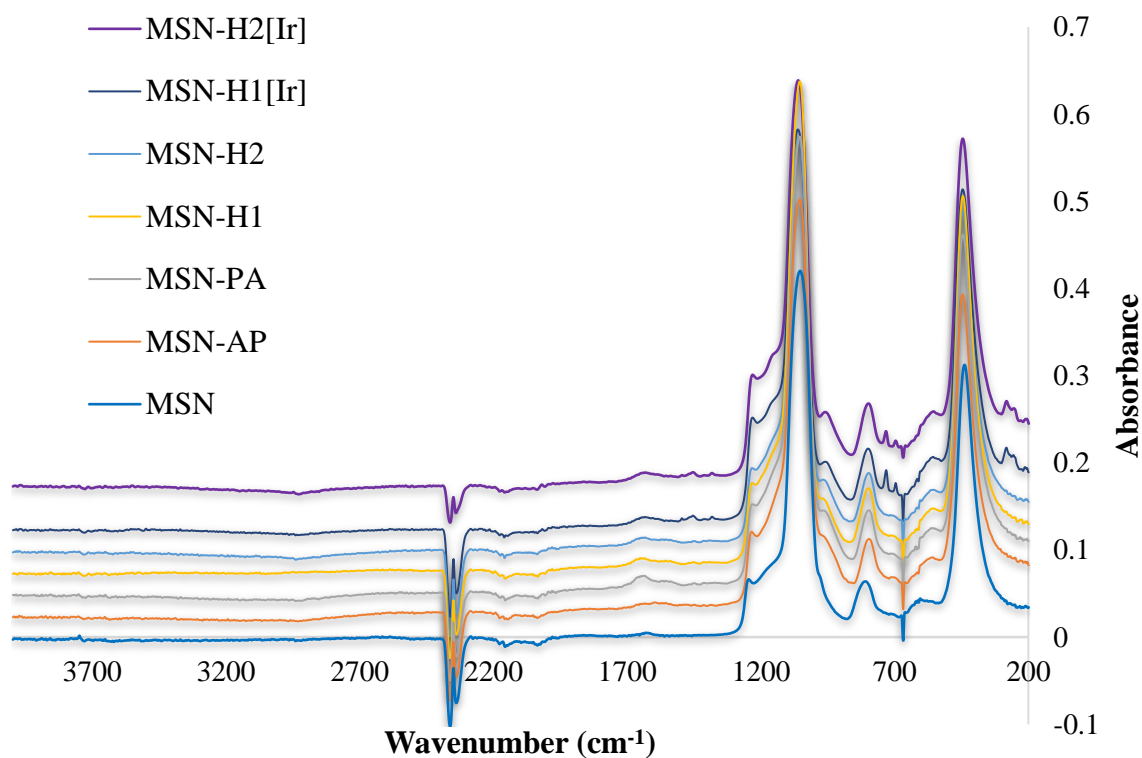
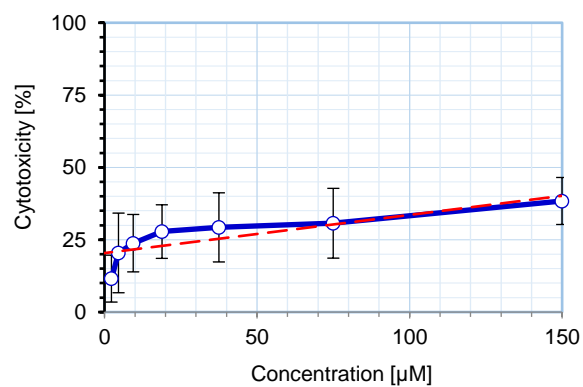
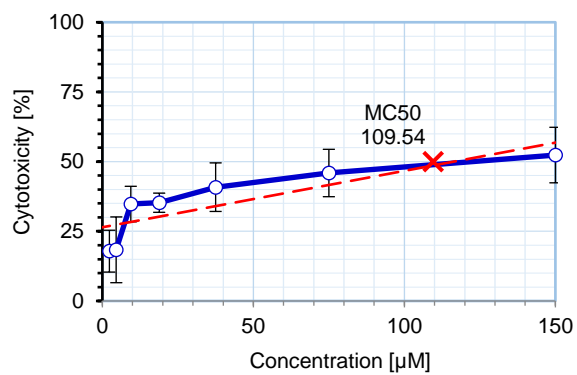


Figure S1. FTIR spectra of the prepared materials

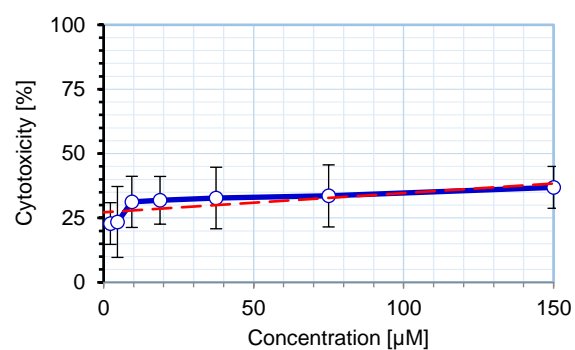
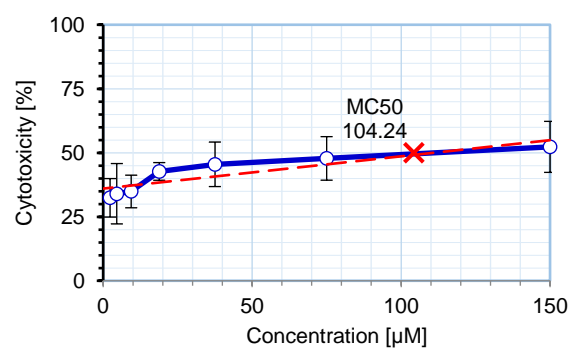
Cell line: **U251**

MRC-5

MSN-H1[Ir] pH 5



MSN-H1[Ir] pH 7.4



MSN-H1[Ir] Medium

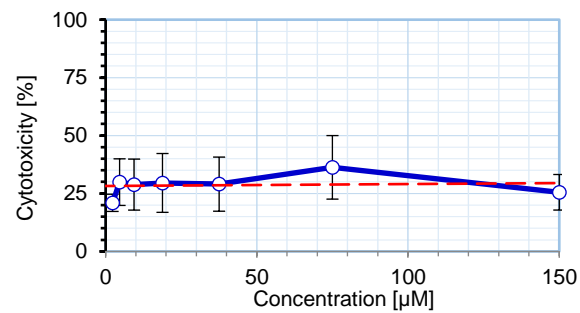
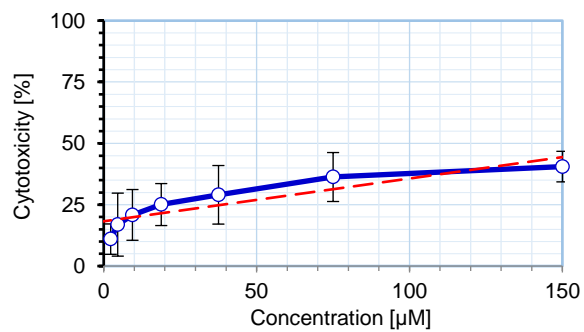
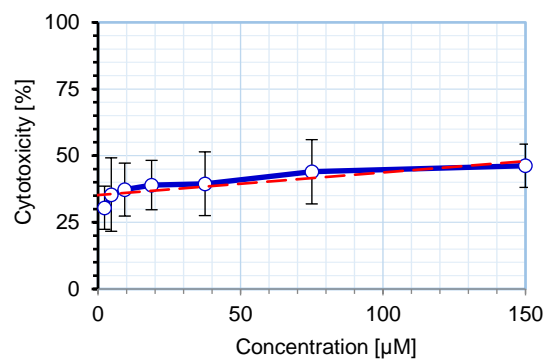
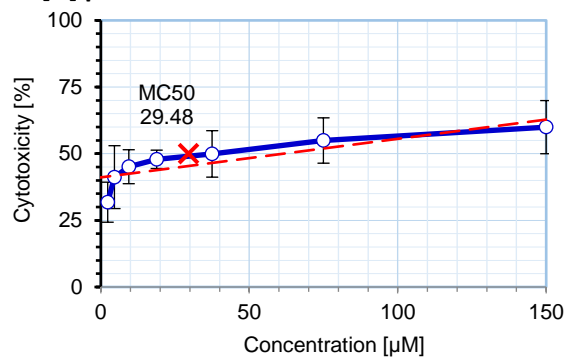


Figure S2. Cytotoxicity of MSN-H1[Ir] against U251 and MRC-5 cells

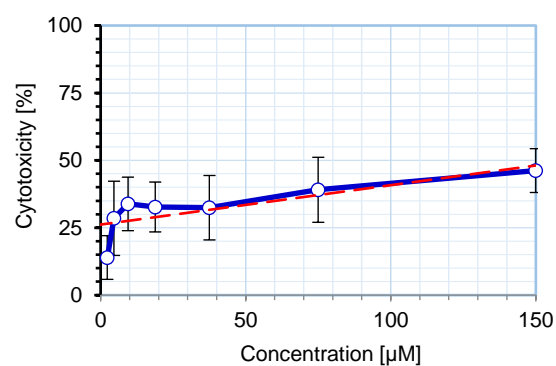
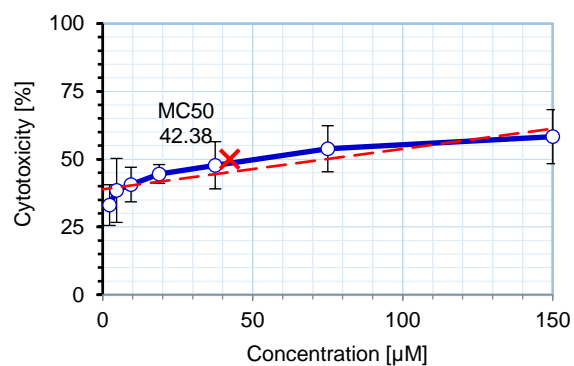
Cell line: **U251**

MRC-5

MSN-H2[Ir] pH 5



MSN-H2[Ir] pH 7.4



MSN-H2[Ir] Medium

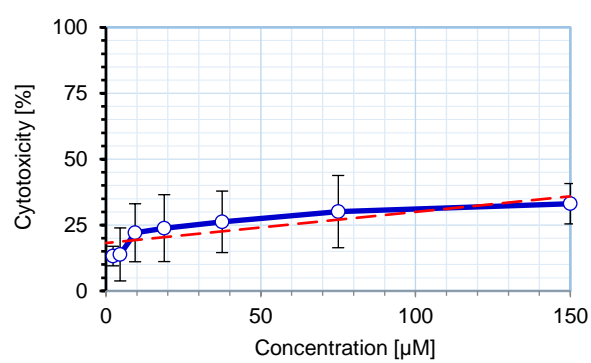
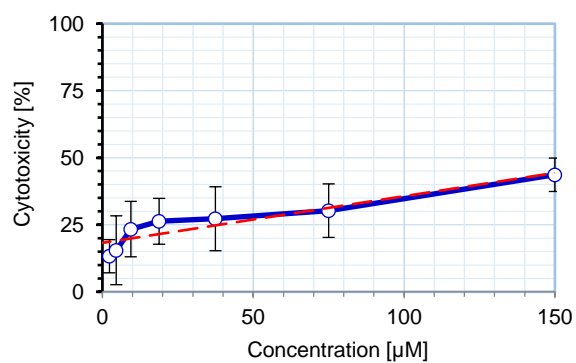
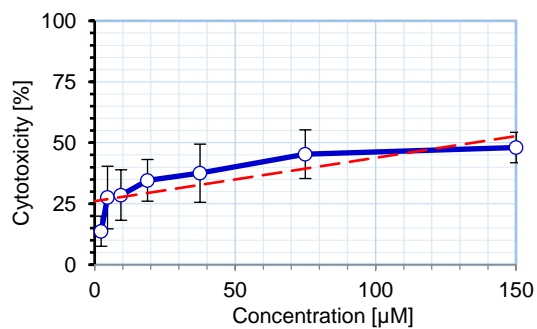


Figure S3. Cytotoxicity of MSN-H2[Ir] against U251 and MRC-5 cells

Cell line:

U251



MRC-5

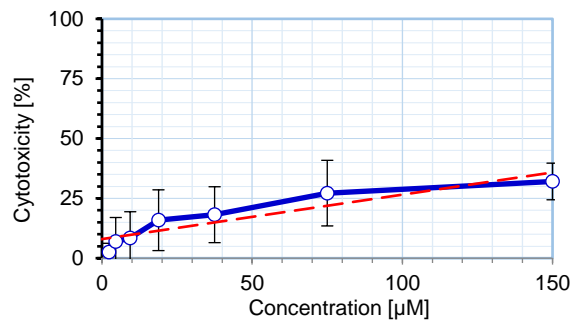
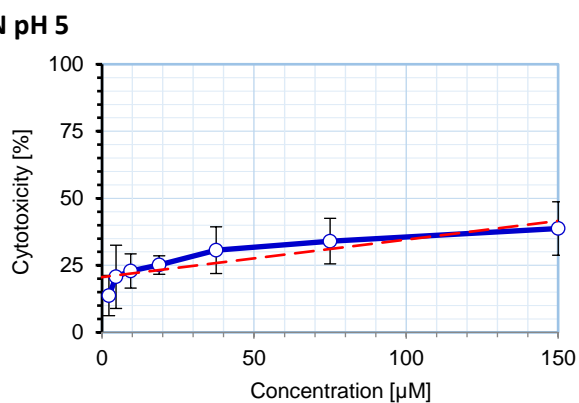


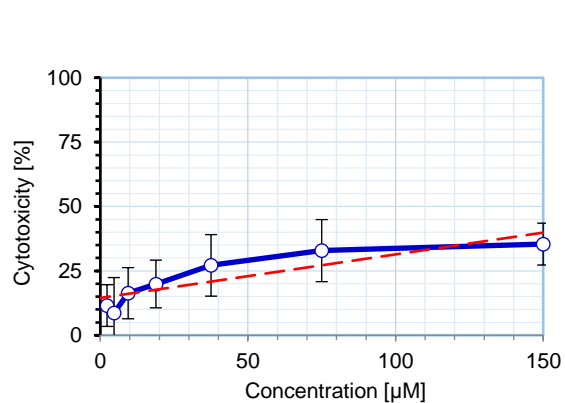
Figure S4. Cytotoxicity of (Pentamethylcyclopentadienyl)iridium(III) chloride dimer ($[\text{Ir}]_2$), with stock solution prepared in DMSO, against U251 and MRC-5 cells

Cell line:

U251



MRC-5



MSN pH 7.4

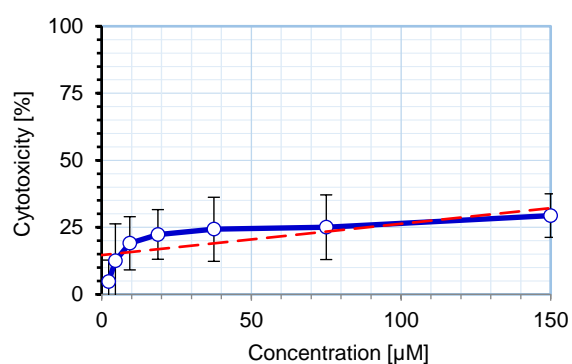
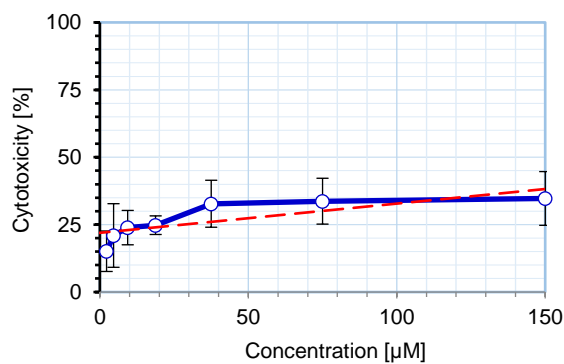
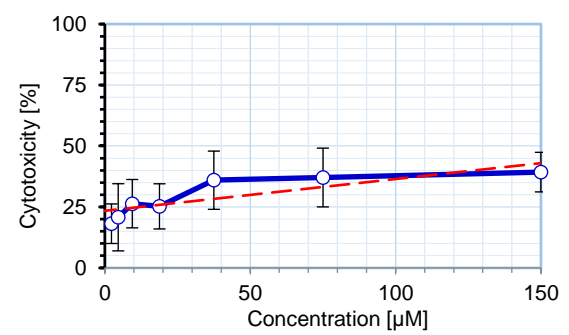
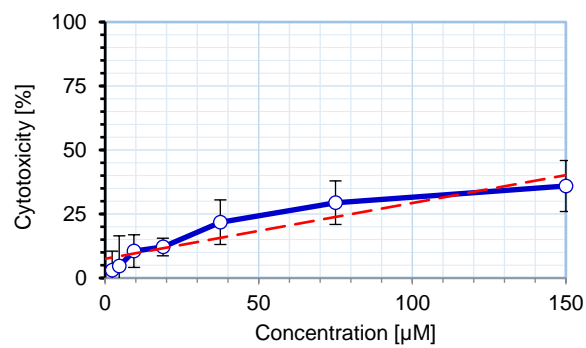


Figure S5. Cytotoxicity of MSN against U251 and MRC-5 cells

Cell line: **U251**

MRC-5

MSN-H1 pH 5



MSN-H1 pH 7.4

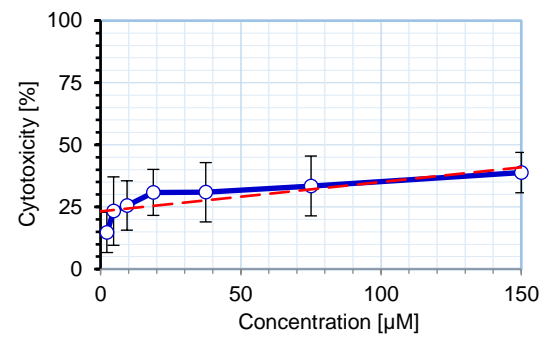
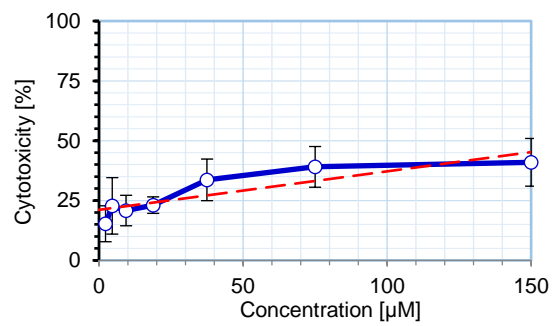
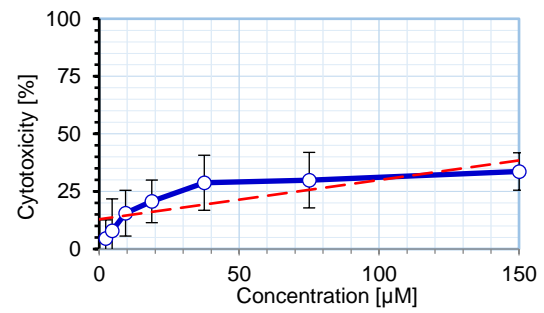
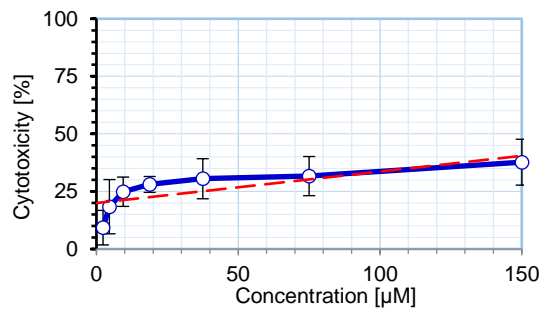


Figure S6. Cytotoxicity of MSN-H1 against U251 and MRC-5 cells

Cell line: **U251**

MRC-5

MSN-H2 pH 5



MSN-H2 pH 7.4

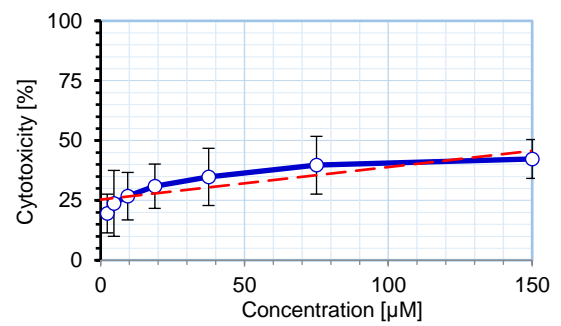
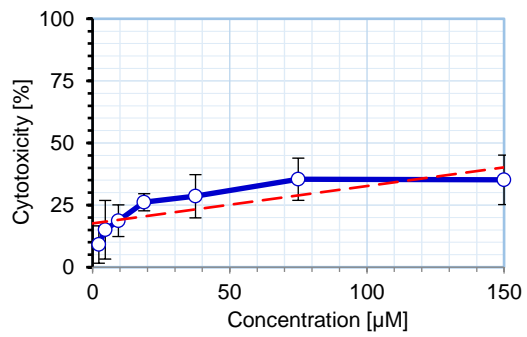


Figure S7. Cytotoxicity of MSN-H2 against U251 and MRC-5 cells