

Supplementary Materials: Synthesis and Optimization of Meso-porous Silica Nanoparticles for Ruthenium Polypyridyl Drug Delivery

Siti Norain Harun, Haslina Ahmad *, Hong Ngee Lim, Suet Lin Chia and Martin R. Gill

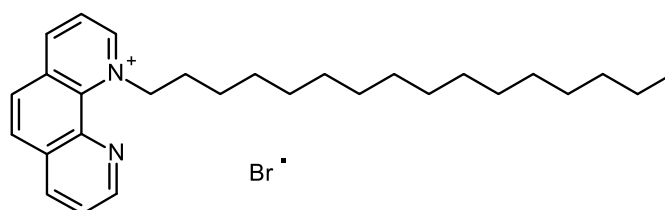


Figure S1: Chemical structure of Phen-C₁₆.

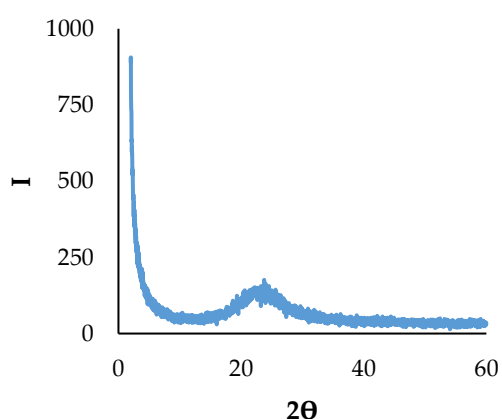


Figure S2: X-Ray (I vs 2θ) plot of MSN.

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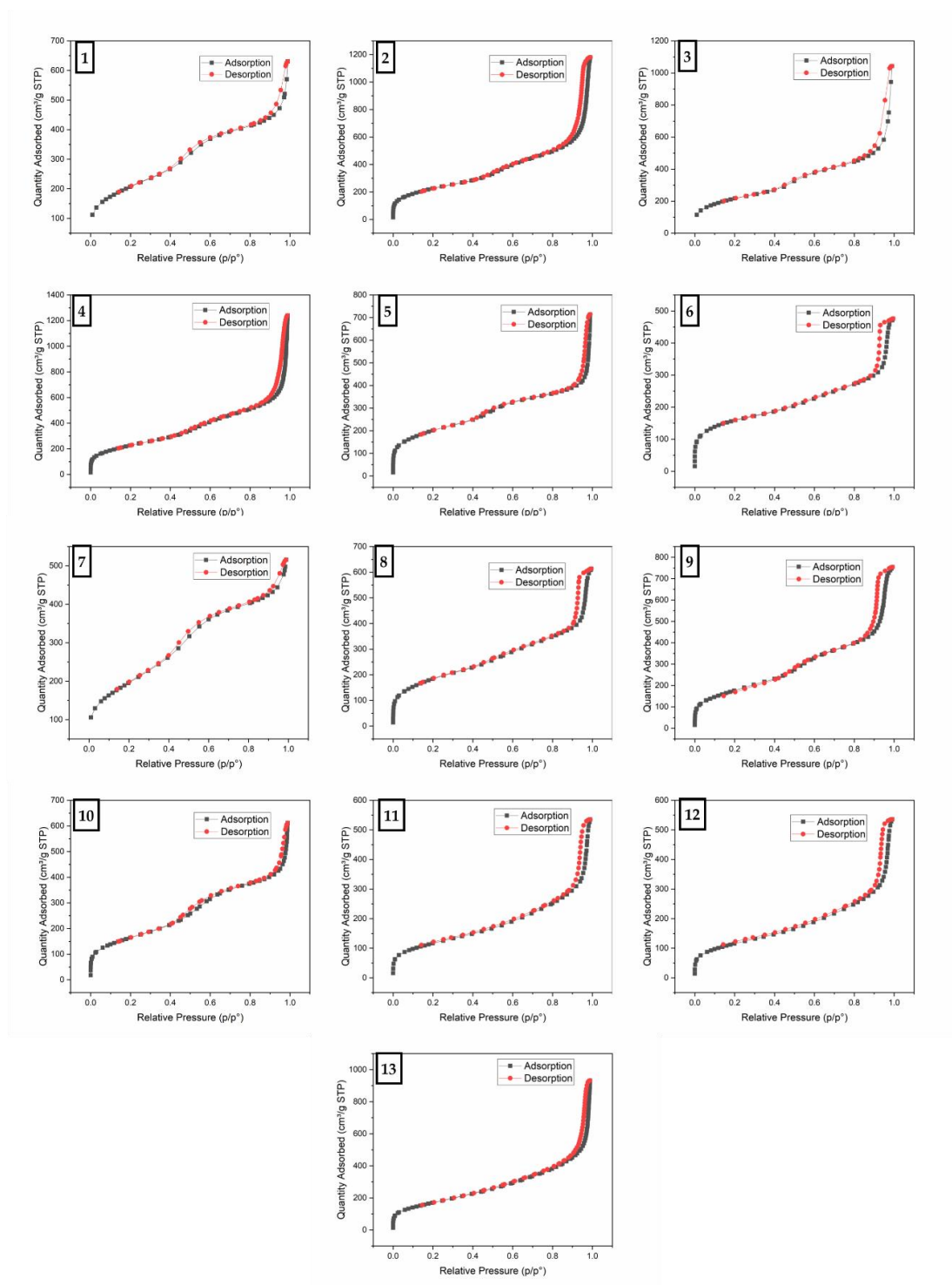


Figure S3. BET isotherm linear plot corresponds with Box Behnken design runs 1 to 13.

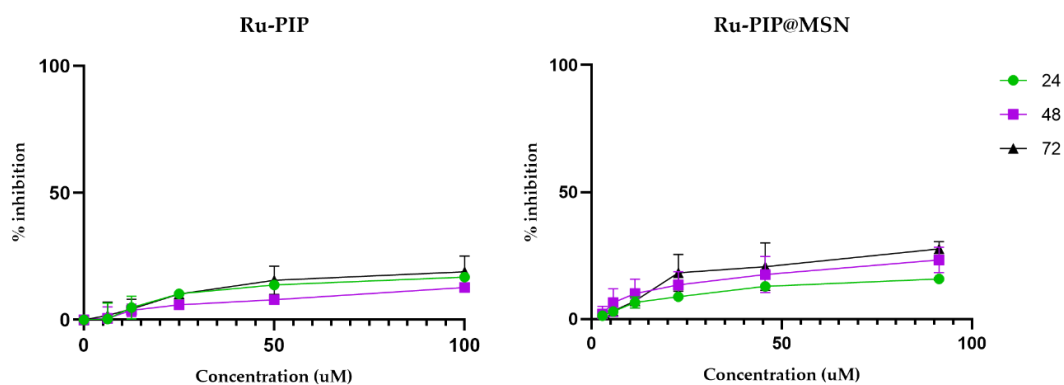


Figure S4. Cell inhibition on NHDF following 24, 48 and 72 h treatment of Rupip and MSN-Rupip.

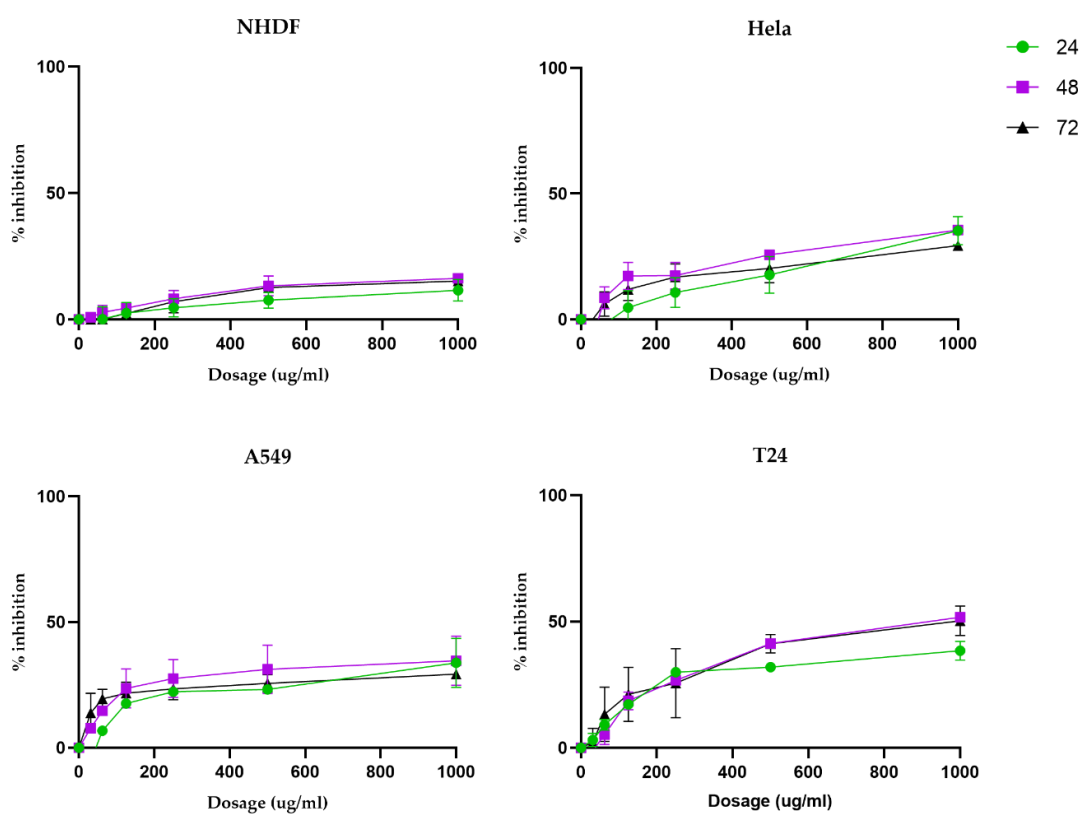


Figure S5. Cell inhibition of MSN on normal and cancer cells.

Table S1: IC₅₀ values of Ru-PIP and Ru-PIP@MSN on cancer cells

Cells	Ru-PIP (μ M)			Ru-PIP@MSN (μ M)		
	24H	48H	72H	24H	48H	72H
Hela	75.30	39.51	20.82	17.82	1.84	0.36
A549	>100	59.53	28.29	17.78	4.15	0.63
T24	86.37	52.12	32.00	22.01	8.64	3.75