

Table S1. Crystalline size of HGRCm-ZnONPs using Hydroponic Ginseng.

Peak number	Peak position angle (2 θ)	D spacing value (Å)	FWHM	Size (nm)	Average size (nm)
100	31.82	2.80	.2145	28.13	28.87 nm
002	34.47	2.59	.2234	29.47	
101	36.31	2.47	.2228	29.01	
102	47.59	1.90	.4103	16.24	
110	56.66	1.62	.2436	23.56	
103	62.19	1.47	.4356	18.13	
200	66.46	1.40	.5127	19.20	

Table S2. IC₅₀ values of (Cisplatin, CMC, ZnO, HGR-Ex, HGR-ZnO-NPs, HGRCm- ZnO-NPs) against two cell lines.

HaCaT (Normal Cell)	IC ₅₀ with Standard Deviation (µg/mL)				
	CMC	ZnO	HGR-Ex	HGR-ZnO-NPs	HGRCm- ZnO-NPs
	240.19±3.09	199.41±3.13	121.96±4.19	59.42±4.42	52.56±2.21

A549 (Lung Cancer Cell)	IC ₅₀ with Standard Deviation (µg/mL)					
	Cisplatin	CMC	ZnO	HGR-Ex	HGR-ZnO-NPs	HGRCm- ZnO-NPs
	23.64±3.62	55.31±2.77	139.11±4.96	129.57±2.09	39.22±3.04	15.74±2.05