

Supplementary Material

Effect of starvation in reversing cancer drug-resistance based on dextran nanoparticles drug-resistance detection approach

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Table S1 Sample abbreviation list.

Abbreviation	Sample name
GISA	Graft copolymerization induced self-assembly
FDNPs	Fluorescent dextran nanoparticles
OV cells	Human ovarian cancer OVCAR-3 cells
DROV cells	Paclitaxel-resistant OVCAR-3 cells
K562	Human immortalized myelogenous leukemia K562 cells
DRK562	Doxorubicin-resistant K562 cells

Table S2 PCR Primer sequences.

Name	Sequence (5' → 3')	Target position
MDR1		
Forward	CACATTTGGCAAAGCTGGAGA	nt 2818-2838
Reverse	CATCATTTGGCGAGCCTGGTA	nt 2938-2957
GAPDH		
Forward	GCACCGTCAAGGCTGAGAAC	nt 249-268
Reverse	TGGTGAAGACGCCAGTGGA	nt 368-386

DROV cell line construction. DROV cell line was constructed by paclitaxel intervention with a gradient paclitaxel concentration from 0.01 to 70 μM . During the intervention process, the cells were treated with paclitaxel for 24 to 48 hours and then cultured in a relatively low concentration of paclitaxel or drug-free medium to restore their growth. The paclitaxel concentration gradually increased during the intervention. The intervention lasted for about 7 months and finally obtained the DROV cell line.