METAFECTENE PRO REPORT

CELL LINE: **U87 MG**

AIMS:
1. METAFECTENE TOXICITY
2. INFLUENCE OF METAFECTENE ON DRUG TOXICITY
3. TRANSFECTION OF siRNAs

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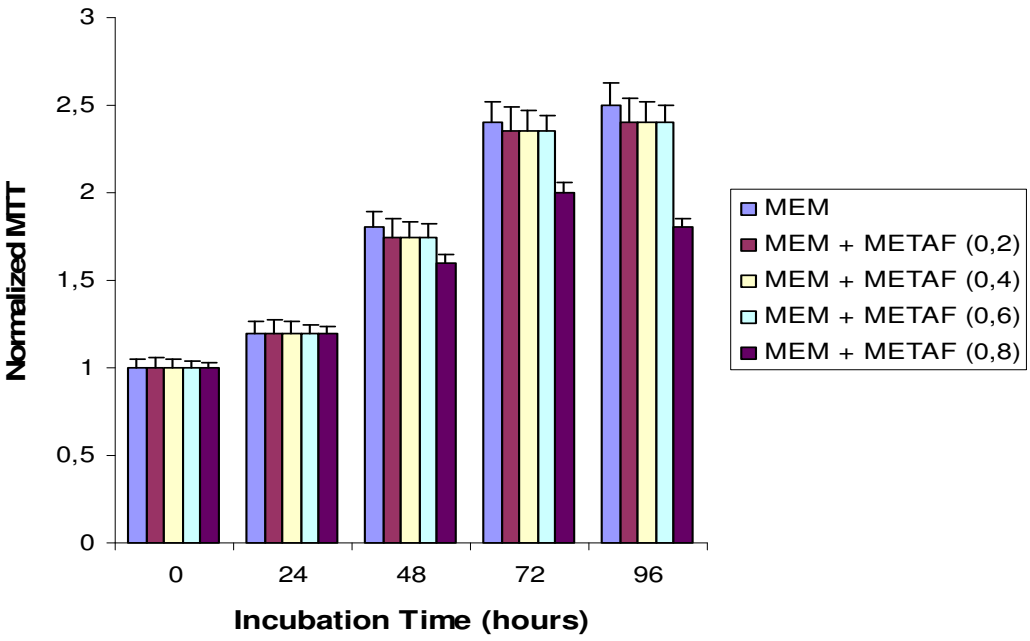
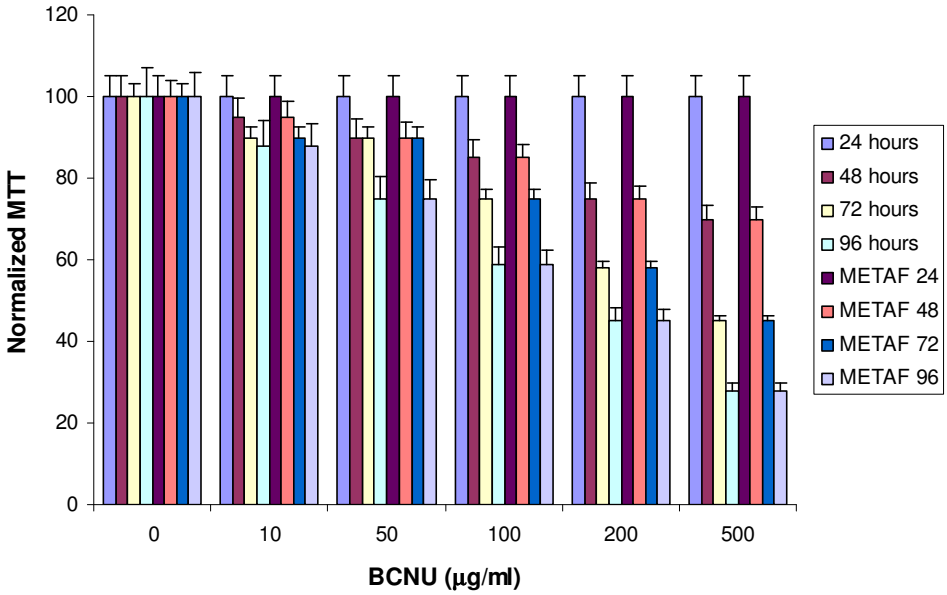
INFLUENCE OF METAFECTENE ON CELL GROWTH



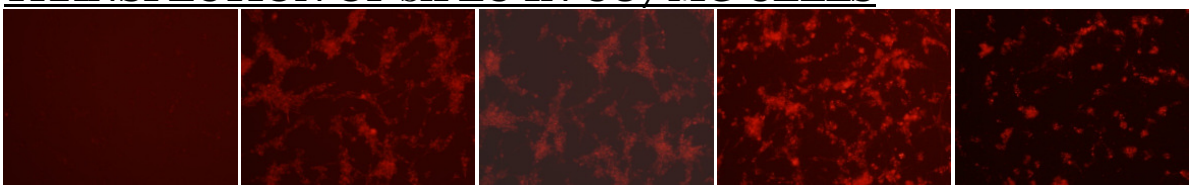
MTT assay on U87 Mg cells (1 x 105/well) incubated with MEM or MEM + METAFECTENE PRO in a final volume of 150 ml. Each bar represents the mean percentage of surviving cells ± DS. Each treatment was in triplicate.
The result indicate no METAFECTENE (0.2-0.6 mL dose) influence on cell growth.

EFFECT OF METAFECTENE ON DRUG TOXICITY

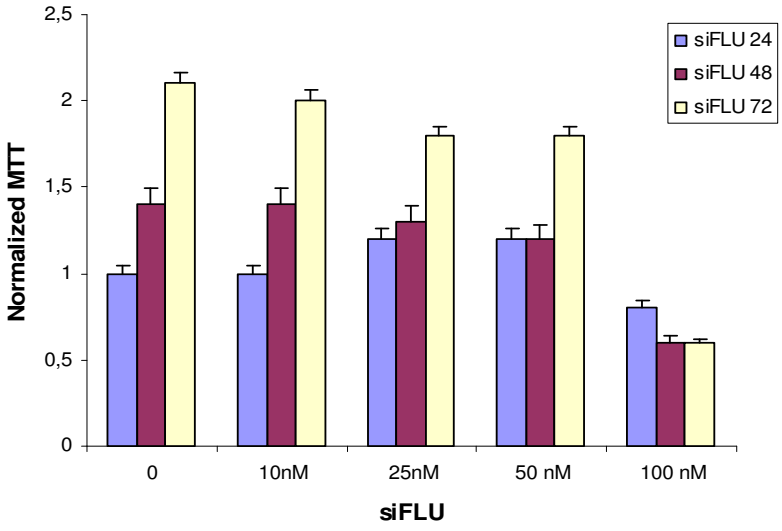


MTT assay on U87 MG (1 x 105/well) cells incubated up to 96 hours with different doses of BCNU or BCNU plus 0.6 ml METAFECTENE in a final volume of 150 ml. Each bar represents the mean percentage of surviving cells ± DS. Each treatment was in triplicate.
The result indicates that METAFECTENE may be used in toxicity test, without influences on drug cytotoxicity effect.

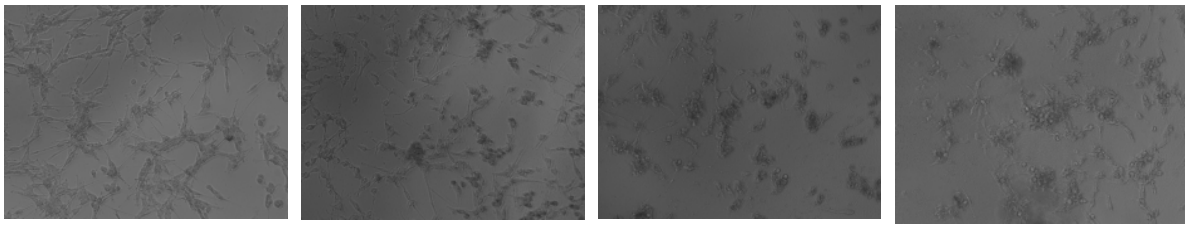
TRANSFECTION OF siFLU IN U87 MG CELLS



siFlu negativo 10 nM | siFlu 10 nM | siFlu 25 nM | siFlu 50 nM | siFlu 100 nM



MTT assay showing the effect of different doses (nM) of siFLU (Dharmacon, cod.D-001600-01-05) on U87 MG surviving.
The results indicated that from 10 up to 50 nM of siFLU haven't effect on U87 viability.

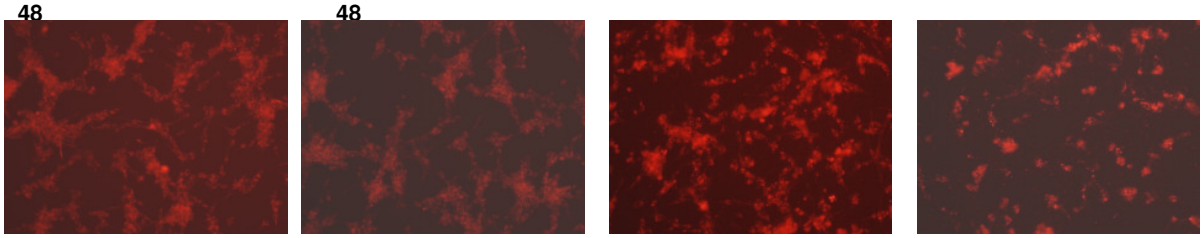


siGAPDH 10 nM 48

siGAPDH 25 nM 48

siGAPDH 50 nM

siGAPDH 100 nM



siFlu 10 nM

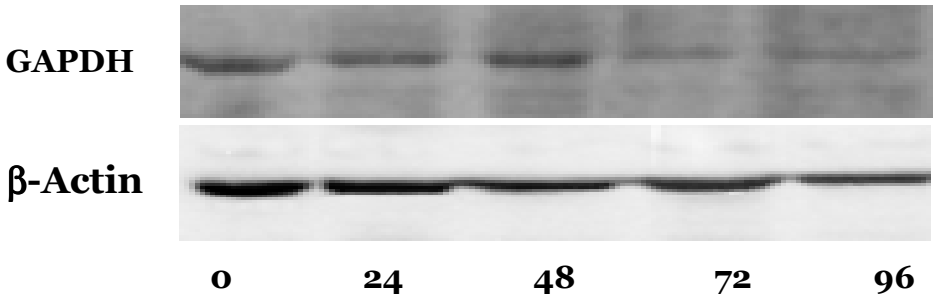
siFlu 25 nM

siFlu 50 nM

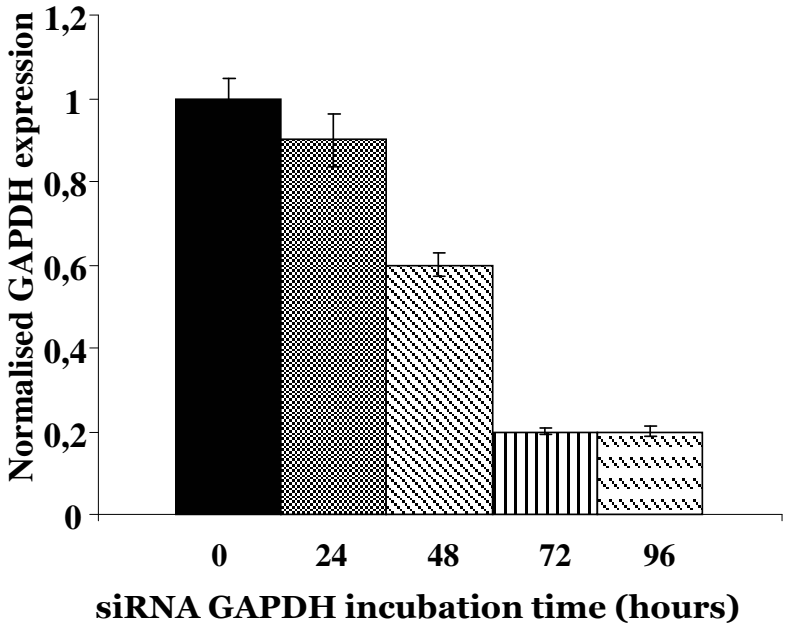
siFlu 100 nM

siFlu 50 nM without METAFECTENE

Semi-quantitative Western Blot



siRNA GAPDH incubation time (hours)



siGAPDH: Dharmacon cod. D-001140-01-05

Future direction

1. Transient transfection of GFP-plasmid in human primary glioma cells
2. Gene silencing in human urothelial cancer cells
3. Gene silencing in human brain cancer stem cells
4. Transient transfection of GFP-plasmid in human brain cancer stem cells