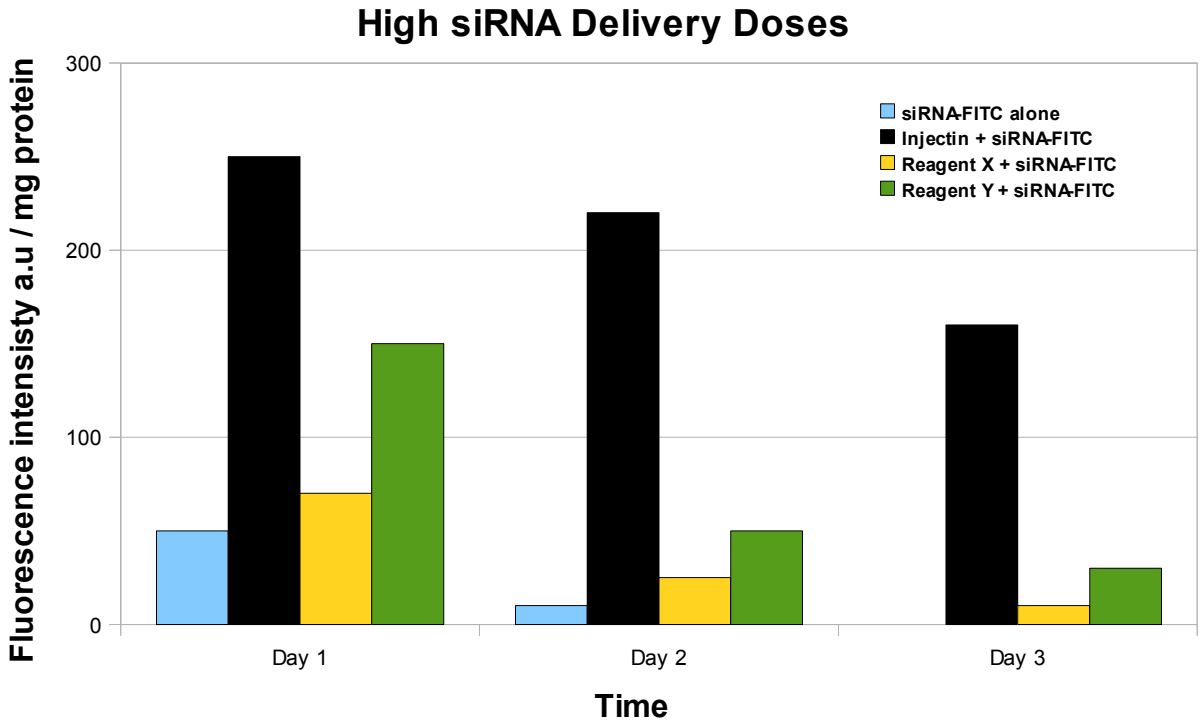
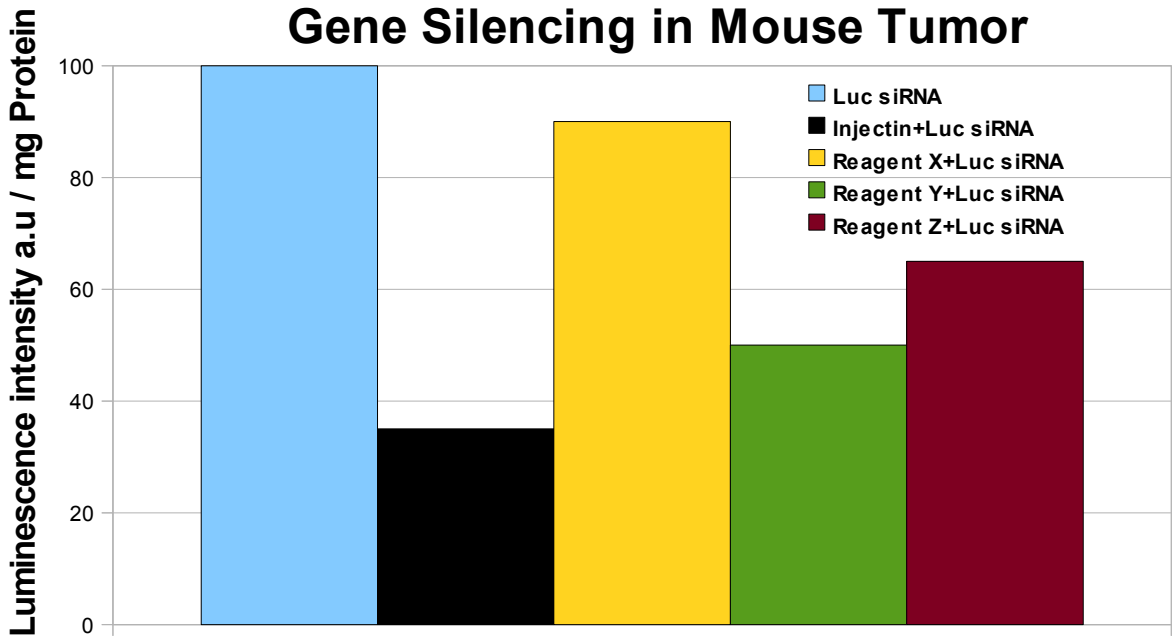
Injectin

In Vivo siRNA Delivery Kit – Results

1) Delivery of siRNA into a mouse tumor

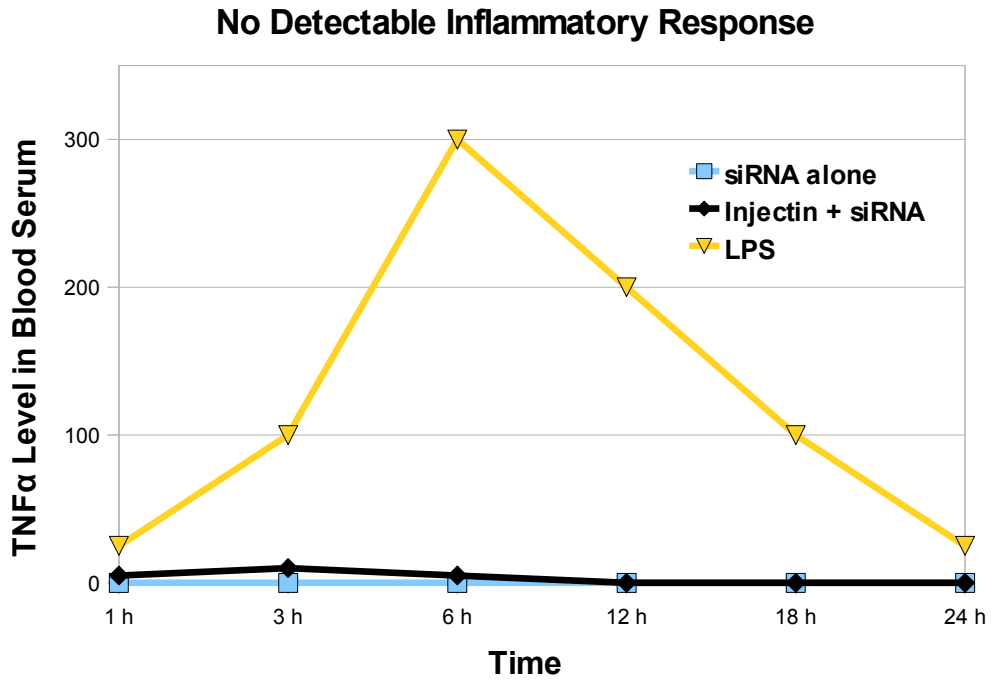


10 µg of a fluorescein-labeled siRNA (siRNA-FITC) were directly injected into a 100 mm^3 mouse PC3 tumor by using 10 µL of Injectin reagent. The same experiment was performed by using other *in vivo* siRNA delivery reagents (X, Y) according to manufacturer's protocols. Tumors were excised and lysed in a protease inhibitor solution after 1, 2 and 3 days respectively. Fluorescence intensitiy was measured in the lysates with a spectrofluorimeter. All data were corrected by protein concentration assays.



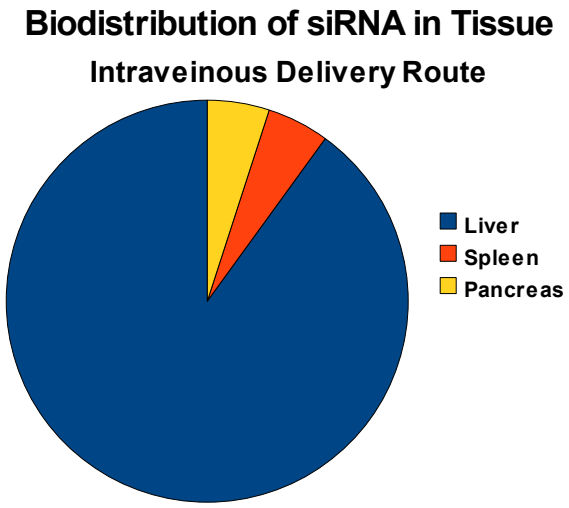
10 µg of a luciferase siRNA were directly injected into a 100 mm^3 mouse tumor 4T1 expressing luciferase by using 10 µL of Injectin reagent. The same experiment was performed by using other *in vivo* siRNA delivery reagents (X, Y and Z) according to manufacturer's protocols. After 8 days, tumors were excised and lysed in protease a inhibitor solution. Luciferase activities were measured with a luminometer. All data were corrected by protein concentration assays.

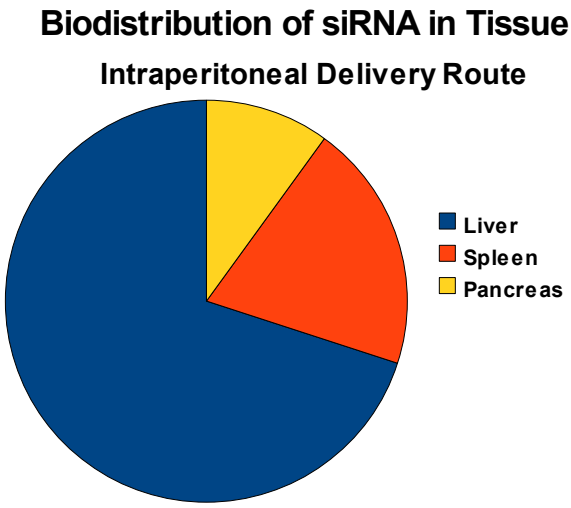
2) Intraveinous delivery of siRNA



50 µg of siRNA were delivered into a female BALB/mice by tail intraveinous injection and by using 50 µL of Injectin reagent. The concentrations of proinflammatory cytokin TNFα in blood

serum were measured at the indicated times with Mouse TNF alpha ELISA Ready-SET-Go kit (ebioscience, San Diego, USA) and a spectrophotometer. Lipopolysaccharides from E.coli (LPS, Calbiochem) were used as positive control.





50 µg of a fluorescein-labeled siRNA (siRNA-FITC) were delivered into a female BALB/mice by tail intraveinous or intraperitoneal injections by using 50 µL of Injectin reagent. Tissues from liver, spleen and pancreas were collected, cells were dissociated and the fluorescence intensity was measured by cytofluorimetry.