Rapid tumor inhibition via magnetic hyperthermia regulated by caspase 3 with time-dependent clearance of iron oxide nanoparticles

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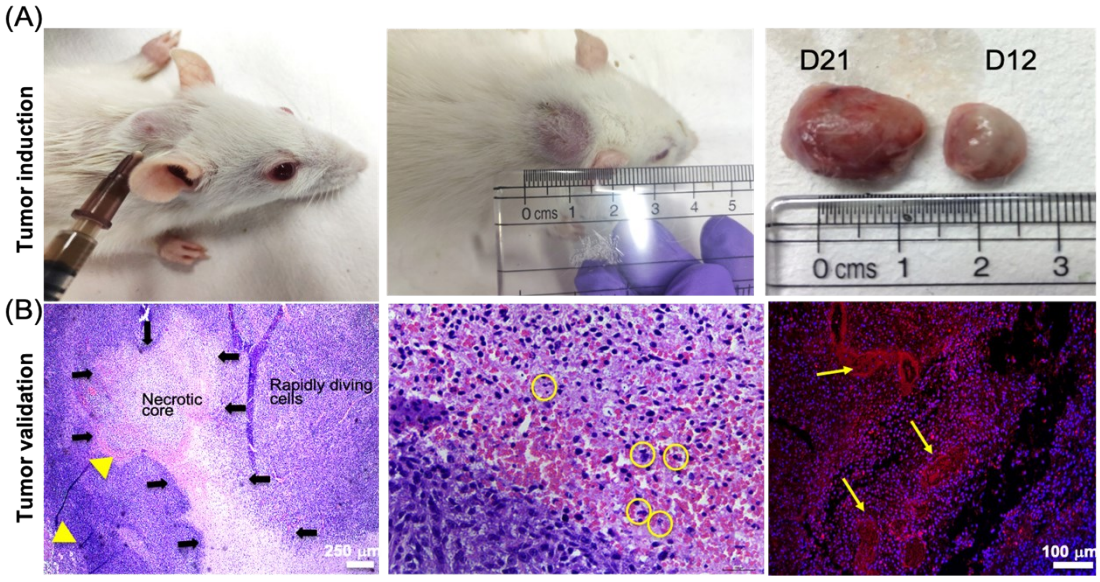
Supplementary Table

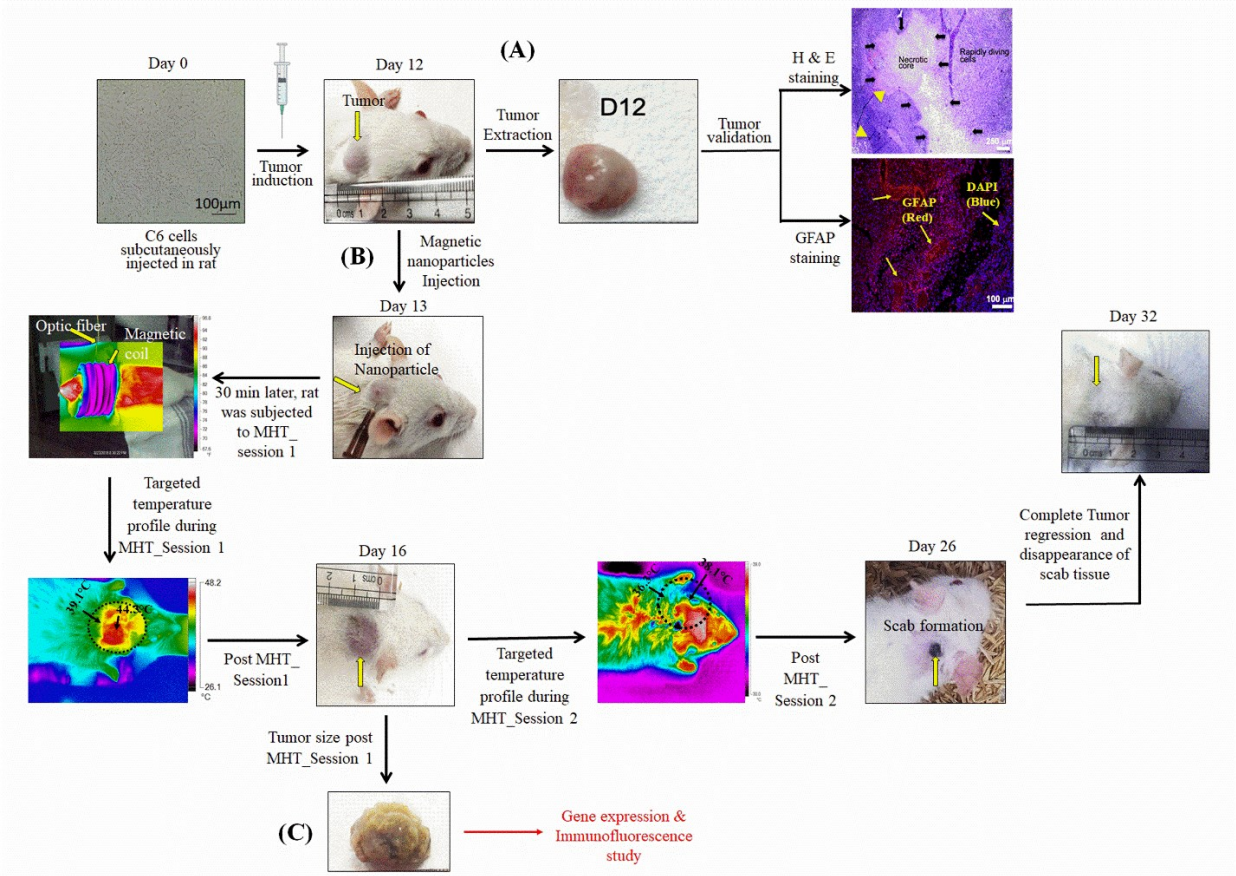
Drug	Concentration (mg/kg)	Route of administration	Frequency of administration
Cyclosporine	30	i.p.	Days 1 to 7, daily
Ketaconazole	10	Oral	Days 1, 3, 5
Cyclophosphamide	30	s.c.	Days 3, 6

Supplementary Table 1: Dosage for immune suppression in Wistar rats.

Supplementary Figures



Supplementary Figure 1: *In vivo* tumor model. (A) Tumor induction using 200 µl of C6 glioblastoma cells (5×10^6) injected subcutaneously into the flank of each rat, followed by tumor development and extraction at different time points (D21 and D12 represents tumor extraction at day 21 and day 12, respectively). (B) Tumor validation confirming glioblastoma origin (arrows–pseudo-palisades; arrowhead–neo-vasculature; circles – mitotic tumor cells) using H&E staining and GFAP marker (red). Nuclei were stained with DAPI (blue).



Supplementary Figure 2: Schematic diagram for the *in vivo* procedure. C6 cells were injected subcutaneously in the rat for tumor induction. (A) Tumor were extracted at day 12 for tumor validation: H & E staining and GFAP staining. (B) Nanoparticles were injected intra-tumorally at day 13. 30 min later, rats were subjected to hyperthermia session 1. At day 20, rats were subjected to hyperthermia session 2. Scab tissue formation was observed at around day 26 which was later disappeared and complete tumor regression was observed. (C) At day 16, tumors were extracted from a group of rats and processed for gene expression and immunofluorescence assays.