

MicroRNA-200c increases radiosensitivity of human cancer cells with activated EGFR-associated signaling

SUPPLEMENTARY MATERIALS

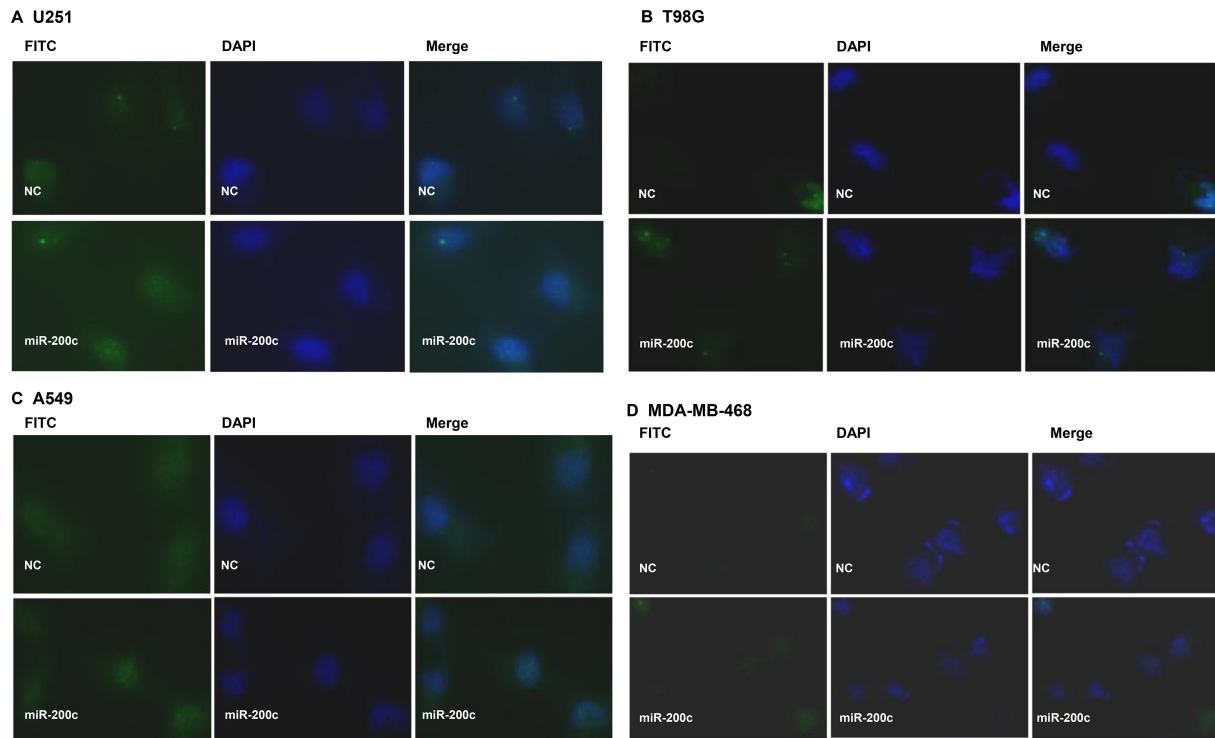
miR-200c

Cell \ SER	SF _{0.5}	SF _{0.05}
U251	1.24	1.25
T98G	1.05	1.11
A549	1.20	1.18
MDA-MB-468	1.12	1.10

Anti-miR-200c

Cell \ SER	SF _{0.5}	SF _{0.05}
U251	1.00	0.92
T98G	0.86	0.88
A549	1.00	0.88
MDA-MB-468	0.94	0.88

Supplementary Data 1: Sensitizer enhancement ratio (SER).



Supplementary Data 2: Overexpression of miR-200c had no significant difference in γ H2AX focus formation unless radiation was delivered.

miRNA	Gene (Protein)	miRWalk	miRanda	miRDB	Pictar2	PITA	RNA22	RNAhybrid	Targetscan	SUM
hsa-miR-200c	<i>EGFR</i> (EGFR)	1	1	0	0	0	1	1	1	5
hsa-miR-200c	<i>PIK3CB</i> (PI3K)	1	1	0	1	0	0	1	1	5
hsa-miR-200c	<i>AKT2</i> (AKT)	0	1	0	0	1	1	1	1	5
hsa-miR-200c	<i>MAPK1</i> (ERK1/2)	1	0	0	0	1	1	1	0	4
hsa-miR-200c	<i>VEGFA</i> (VEGF)	1	1	0	1	0	0	1	1	5
hsa-miR-200c	<i>HIF1AN</i> (HIF-1 α inhibitor)	1	1	1	0	1	0	1	1	6
hsa-miR-200c	<i>CDH1</i> (E-cadherin)	1	0	0	0	0	1	1	1	4

Supplementary Data 3: Target gene prediction using miRNA target databases.

Supplementary Data 4: See Supplementary_Data_4