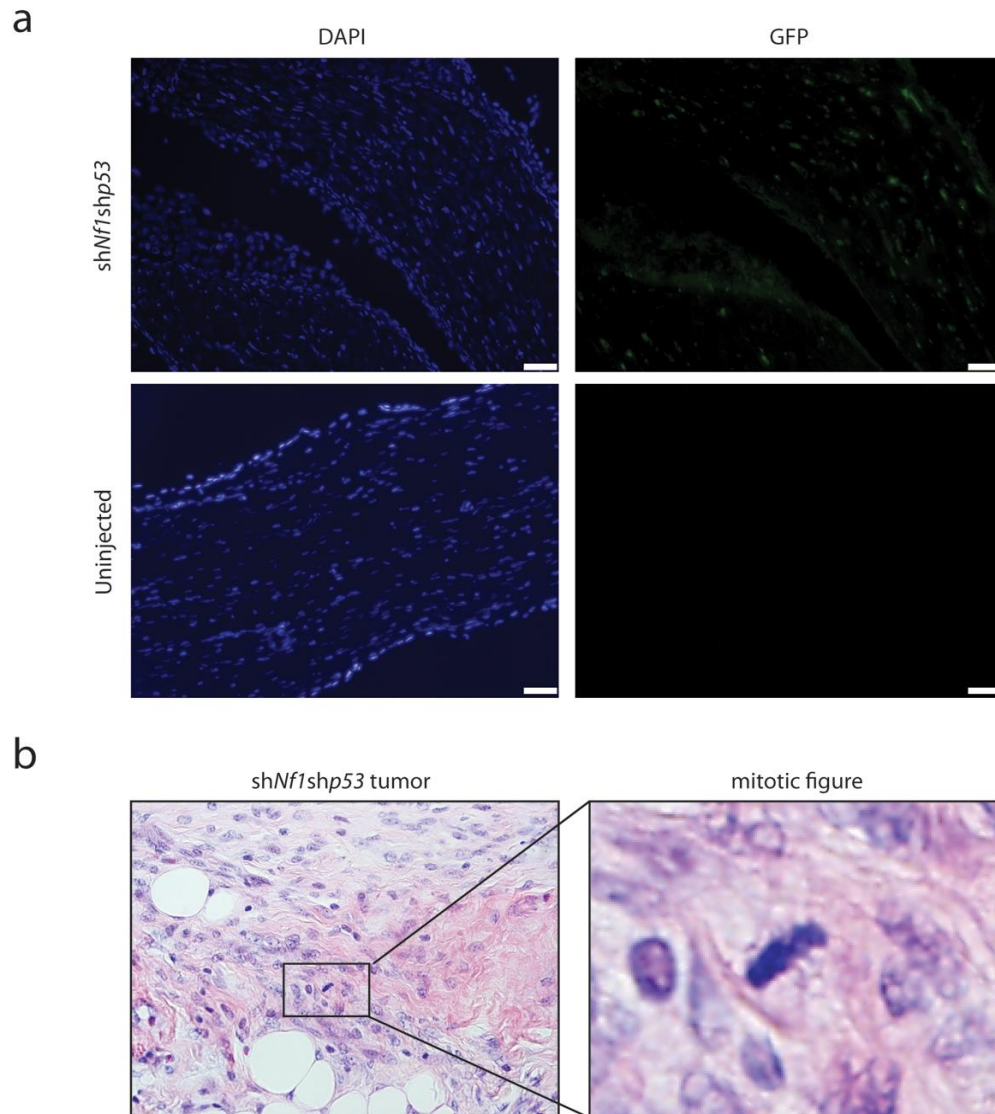


Spatially- and temporally-controlled postnatal p53 knockdown cooperates with embryonic Schwann cell precursor *Nf1* gene loss to promote malignant peripheral nerve sheath tumor formation

Supplementary Material



Supplemental Figure 1. (a) GFP-positive cells are apparent seven days after the injection of pTomo-sh*Nf1*;shp53 virus into the right sciatic nerve. 50 μ m scale bar. (b) Representative image of mitotic figures in a MPNST arising in a Periostin-Cre; *Nf1*^{flx/flx} mouse following the injection of pTomo-sh*Nf1*;shp53 virus into the right sciatic nerve.

Supplemental Table 1. Current MPNST murine models

Mouse Model	Tumor phenotype	Genetic Background	Reference
<i>Nf1</i> ^{+/-null} ; <i>Trp53</i> ^{+/-null} cis	MPNSTs in 30% mice, 5 months	129sv x C57BL/6	[15, 16]
<i>Nf1</i> ^{flox/flox} ; <i>Ink4aArf</i> ^{flox/flox} , adenoviral Cre injected into the sciatic nerves	MPNSTs in almost all mice by 4-6 months	<i>Nf1</i> ^{flox/flox} : 129sv x C57BL/6 <i>Ink4a</i> ^{flox/flox} : FVB	[19]
<i>Nf1</i> ^{flox/flox} ; <i>Dhh</i> -Cre; Cnp- <i>EGFR</i>	MPNSTs in 33% mice, 4-8 months	Cnp- <i>EGFR</i> : C57BL/6 <i>Nf1</i> ^{flox/flox} ; <i>Dhh</i> -Cre: 129sv x C57BL/6	[17]
<i>Trp53</i> ^{R270H} ; Cnp- <i>EGFR</i>	MPNSTs in 18% mice, median 284 days	Cnp- <i>EGFR</i> : FVB/N	[7]
P ₀ -GGFβ3 transgenic	MPNSTs 70%, 6-10 months	backcrossed to C57BL/6J x SJL/J F1	[43, 45]
P ₀ -GGFβ3 inbred P ₀ -GGFβ3; <i>Nf1</i> ^{+/-null} P ₀ -GGFβ3; <i>Trp53</i> ^{+/-null}	No tumors No tumors MPNSTs in 95% mice, 226 days	C57BL/6J	[44]
GFAP-Cre; <i>Pten</i> ^{flox/+} ; LSL- <i>Kras</i> ^{G12D/+}	MPNSTs in 100% mice, 4 months	C57BL/6 x 129sv x BALB/c	[18]
<i>Nf1</i> ^{+/-null} ; <i>p19Arf</i> ^{+/-null}	MPNSTs in 10% mice, 36 weeks	<i>Nf1</i> ^{+/-null} : 129sv <i>p19Arf</i> ^{+/-null} : 129svJ6 x C57BL/6	[20]

Supplemental Table 2. Antibodies used

Antibody	Dilution	Antigen Retrieval	Secondary Antibody
S100 β (ab41548; Abcam)	1:250	Citrate buffer	Rabbit
Ki67 (790-4286; Ventana)	Pre-diluted	CC1 buffer (950-124, Ventana)	Rabbit
Tryptase (760-4276; Ventana)	Pre-diluted	CC1 buffer (950-124, Ventana)	Mouse
Col4A (ab6586; Abcam)	1:1000	Citrate buffer	Rabbit