

Supplementary Information

Fibroblasts colonizing nerve conduits express high levels of soluble Neuregulin1, a factor promoting Schwann cell dedifferentiation

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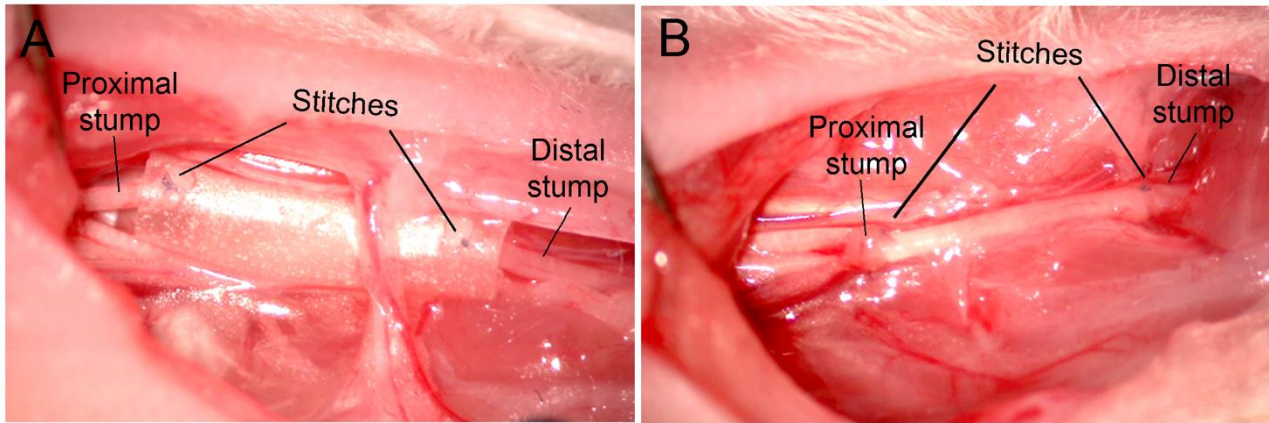


Figure 1. Macroscopic view of implantation sites. Rat median nerve 8 mm defect was repaired with a 10 mm long chitosan conduit (A) or with autograft technique (B).

Table 1. Antibodies used for western blot and immunohistochemistry analysis (Abcam, Cambridge, UK; Bio-Rad, Hercules, CA, USA; Cell Signaling Technology, Danvers, MA, USA; Covance, BioLegend, San Diego, CA, USA; Jackson ImmunoResearch, Philadelphia, PA, USA; R&D Systems, Minneapolis, MN, USA; Santa Cruz Biotechnology, Dallas, TX, USA; Sigma-Aldrich, Merck, Darmstadt, Germany).

<i>Antibodies for Western blot analysis</i>				
Primary antibodies				
	Code	Dilution	Host	Source
AKT	9272	1:1000	Rabbit	Cell Signaling Technology
phospho-AKT (Ser473)	4051	1:1000	Mouse	Cell Signaling Technology
phospho-cJun (Ser63)	2361	1:1000	Rabbit	Cell Signaling Technology
HER1/ErbB1	sc-03	1:1000	Rabbit	Santa Cruz Biotechnology
HER2/ErbB2	sc-284	1:1000	Rabbit	Santa Cruz Biotechnology
HER3/ErbB3	sc-285	1:1000	Rabbit	Santa Cruz Biotechnology
HER4/ErbB4	sc-283	1:1000	Rabbit	Santa Cruz Biotechnology
ERK	9102	1:1000	Rabbit	Cell Signaling Technology
phospho-ERK (Thr202/Tyr204)	9106	1:2000	Mouse	Cell Signaling Technology
NRG1 C terminus	sc-348	1:1000	Rabbit	Santa Cruz Biotechnology
MBP	SMI94 SMI99	1:4000	Mouse	Covance, BioLegend
actin	A5316	1:4000	Mouse	Sigma-Aldrich, Merck
Secondary antibodies				
	Code	Dilution	Host	Source

HRP coniugated- anti-rabbit	7074	1:15000	Goat	Cell Signaling Technology
HRP coniugated- anti-mouse	7076	1:15000	Goat	Cell Signaling Technology

<i>Antibodies for Immunohistochemistry</i>				
<i>Primary antibodies</i>				
	Code	Dilution	Host	Source
CD34	AF4117	1:100	Goat	R&D Systems
S100β	HPA015768	1:500	Rabbit	Sigma-Aldrich, Merck
NRG1 C terminus	sc-348	1:200	Rabbit	Santa Cruz Biotechnology
RECA1	MCA970R	1:500	Mouse	Bio-Rad (AbD Serotec)
<i>Secondary antibodies</i>				
	Code	Dilution	Host	Source
AlexaFluor 488 Anti-Goat	ab150129	1:400	Donkey	Abcam
Cy3 Anti-Mouse	715-165-151	1:800	Donkey	Jackson ImmunoResearch
AlexaFluor 647 Anti-Rabbit	711-605-152	1:800	Donkey	Jackson ImmunoResearch