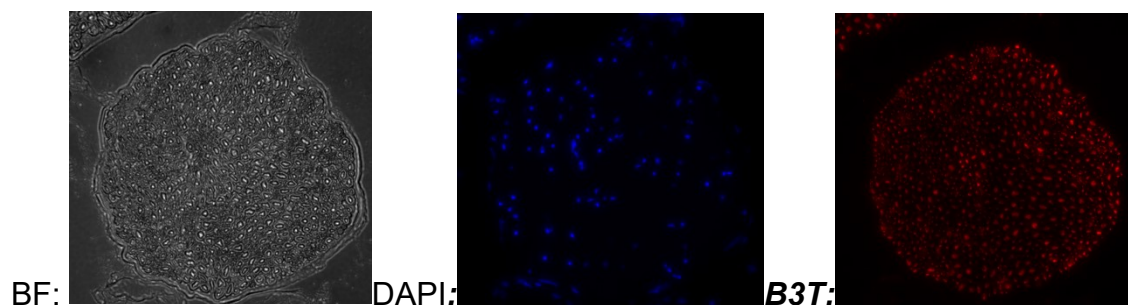


Supplementary material

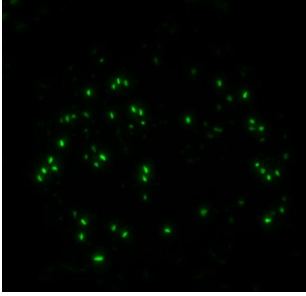
Supplementary table 1. Mean YFP+ and TUBB3+ axon counts from different positions within nerve repair constructs.

Segment	Mean axon count (\pm SD)					
	Graft	Graft	PCL	PCL	PCL+GDNF	PCL+GDNF
	YFP	TUBB3	YFP	TUBB3	YFP	TUBB3
<i>Proximal</i>	145 \pm 60	1929 \pm 587	133 \pm 47	2065 \pm 995	153 \pm 119	1655 \pm 332
	296 \pm 117	2819 \pm 1407	282 \pm 147	2333 \pm 1296	337 \pm 127	2943 \pm 1292
<i>Entrance</i>	301 \pm 101	2987 \pm 761	100 \pm 27	923 \pm 282	99 \pm 28	1605 \pm 479
	225 \pm 51	2076 \pm 877	73 \pm 34	832 \pm 242	60 \pm 15	1032 \pm 651
<i>End</i>	114 \pm 47	1754 \pm 397	44 \pm 43	1913 \pm 668	78 \pm 48	1506 \pm 1177
<i>Distal</i>						

Images of YFP+ and β -III tubulin+ axons of a control (uninjured) nerve were taken prior to undertaking the study. The baseline fluorescence for both YFP and β -III tubulin expression are similar to what was observed in the proximal stump of the injured sciatic nerve.



YFP:



Supplementary table 2. Defining characteristic of experimental mice.

MOUSE TYPE	D.O.B	INTERVENTION	DATE OF SURGERY	AGE AT TIME OF SURGERY (MONTHS)	SEX
THY1-YFP-H	22/01/2024	PCL	21/01/2025	11	F
THY1-YFP-H	12/02/2024	PCL	21/01/2025	11	F
THY1-YFP-H	10/03/2024	PCL	21/01/2025	10	F
THY1-YFP-H	12/05/2024	PCL	12/03/2025	10	M
THY1-YFP-H	12/05/2024	PCL	12/03/2025	10	M
THY1-YFP-H	12/09/2024	PCL	12/03/2025	6	M
THY1-YFP-H	18/04/2024	PCL/GDNF	17/03/2025	10	M
THY1-YFP-H	18/04/2024	PCL/GDNF	17/03/2025	10	M
THY1-YFP-H	18/04/2024	PCL/GDNF	17/03/2025	10	F
THY1-YFP-H	18/04/2024	PCL/GDNF	17/03/2025	10	F
THY1-YFP-H	18/04/2024	PCL/GDNF	17/03/2025	10	F
THY1-YFP-H	10/03/2024	PCL/GDNF	12/03/2025	12	F
THY1-YFP-H	10/03/2024	Graft	11/03/2025	12	F
THY1-YFP-H	18/04/2024	Graft	11/03/2025	10	F
THY1-YFP-H	03/06/2024	Graft	10/03/2025	9	F
THY1-YFP-H	13/05/2024	Graft	10/03/2025	9	F
THY1-YFP-H	18/04/2024	Graft	11/03/2025	10	M
THY1-YFP-H	18/04/2024	Graft	11/03/2025	10	M
C57B/6J	24/02/2024	Donor	10/03/2025	12	F
C57B/6J	24/02/2024	Donor	11/03/2025	12	F
C57B/6J	24/02/2024	Donor	11/03/2025	12	F
	PCL	PCL/GDNF	Graft		
AGE (MEAN)	9.66666667	10.33333333	10		
SD	1.86189867	0.816496581	1.095445115		