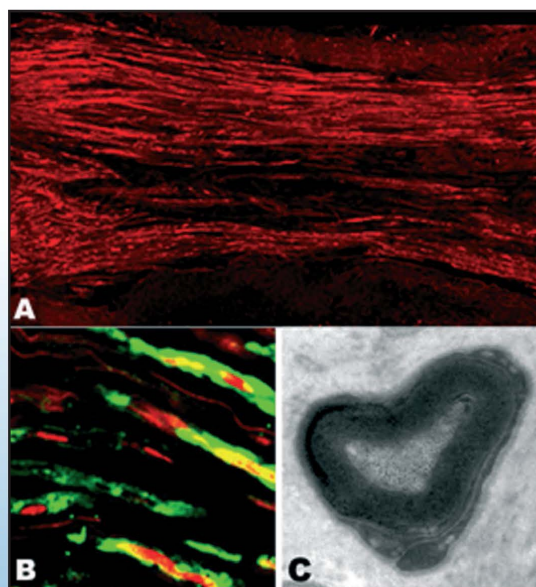


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Nanofiber scaffolds facilitate functional regeneration of peripheral nerve injury

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ABOUT THE COVER

A bioengineered nerve conduit constructed with self-assembling nanofiber scaffold (SAPNS) and aorta canal segment was applied to bridge a 10 mm sciatic nerve defect. The conduit facilitated axonal regeneration and remyelination with functional recovery. (A) Regenerated axons (*red*) in the conduit. (B) Higher power microgram showing the regenerated axons (*red*) wrapped with myelin (*green*). (C) Myelinated axon (EM image).

In this feature article by Zhan et al, a novel self-assembling nanofiber scaffold is reported to promote regeneration of peripheral nerves in a sciatic nerve injury model. The promising results and the obvious medical need raises hope for a clinical translation of this approach hopefully in the near future.(From the Clinical Editor)

Zhan X, Gao M, Jiang Y, Zhang W, Wong WM, Yuan Q, Su H, Kang X, Dai X, Zhang W, Guo J, Wu W. Nanofiber scaffolds facilitate functional regeneration of peripheral nerve injury. *Nanomedicine*. 2013 Apr;9(3):305-15.