BIODEGRADABLE DRUG-DELIVERING NERVE CONDUIT

MEDICAL DEVICES

Novel bridge conduit with a biodegradable drug-delivery system to connect healthy and damaged nerves while administering proteins or small molecules at controlled rates to an injury site.

TECHNOLOGY TYPE
Combination Drug-Device
Drug Delivery
Neurology
Nerve Injury
Conduit

STAGE OF DEVELOPMENT
Proof of concept demonstrated with FK506 in repair of severed sciatic nerve in rat models.

IP PROTECTION
Nationalized PCT Issued in the United States and Europe
Methods and Devices for Connecting Nerves
US9931121B2
EP2768425A4

FEATURES AND BENEFITS
- Facilitates rapid nerve healing and functional restoration of organs not offered by current nerve wraps.
- Provides controlled drug delivery and stability as conduits can degrade after a minimum of eight weeks.
- Drugs and elution rates can be modified without modifying or redesigning the device.

RECENT PUBLICATIONS

INVENTOR PROFILE
Bruce Kent Gale, Ph.D., [Professor and Chair – Mechanical Engineering](mailto:bruce.gale@tvc.utah.edu)
Himanshu Sant, Ph.D., [Research Assistant Professor- Mechanical Engineering](mailto:himanshu.sant@tvc.utah.edu)
Jayant Agarwal, M.D., Chief - Division of Plastic Surgery, School of Medicine

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