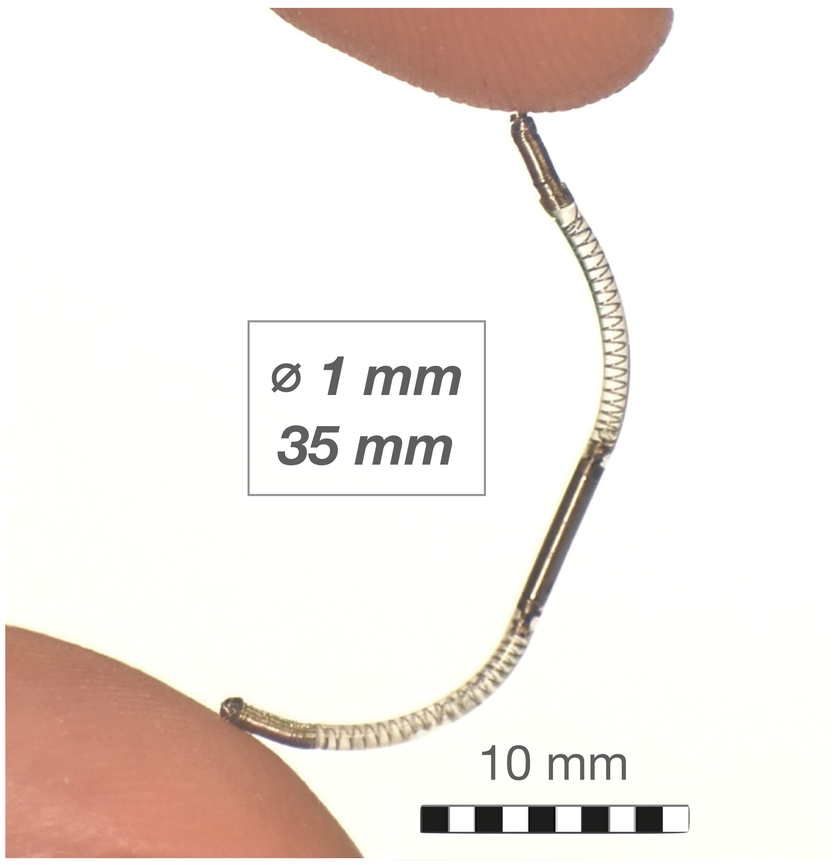
Universitat Pompeu Fabra Barcelona

BERG, Biomedical Electronics Research Group
Prof. Antoni Ivorra

eaxon
ELECTRONIC AXONS



Injectable Neurostimulator

Thread-like IPG designed for minimally invasive implantation

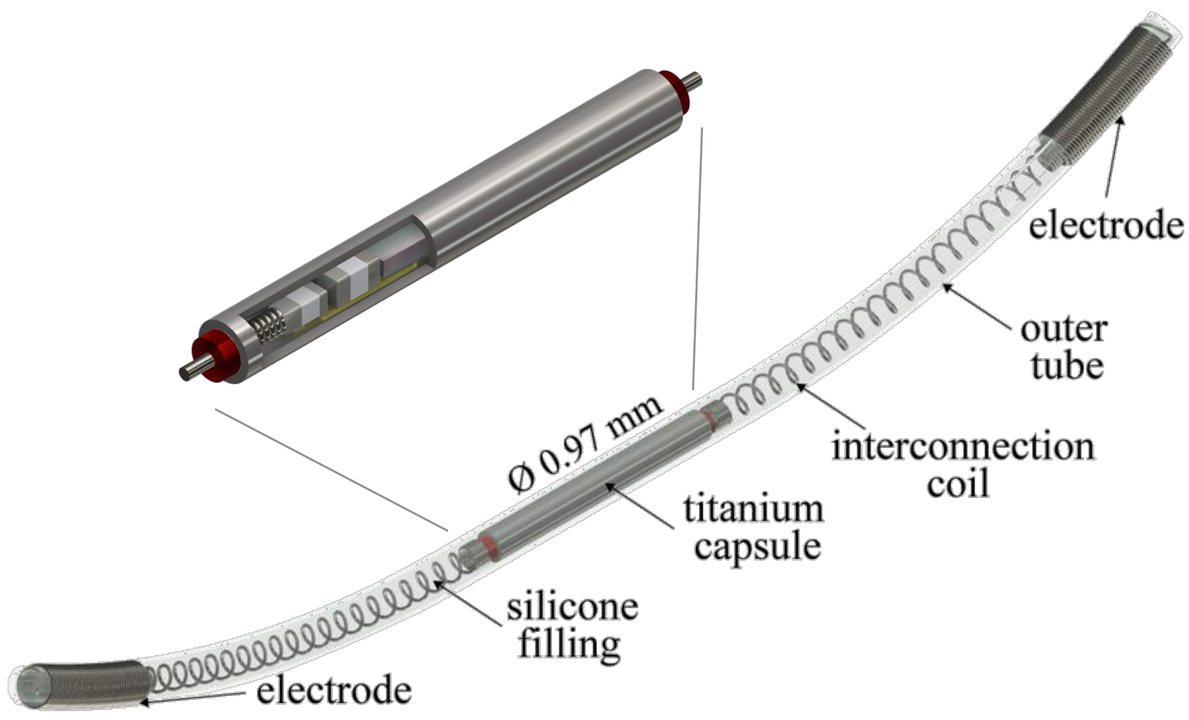
Deep nerves and muscles stimulation and sensing

Coil-less wireless power transfer, using high-frequency volume conduction

Designed for long-term implantation

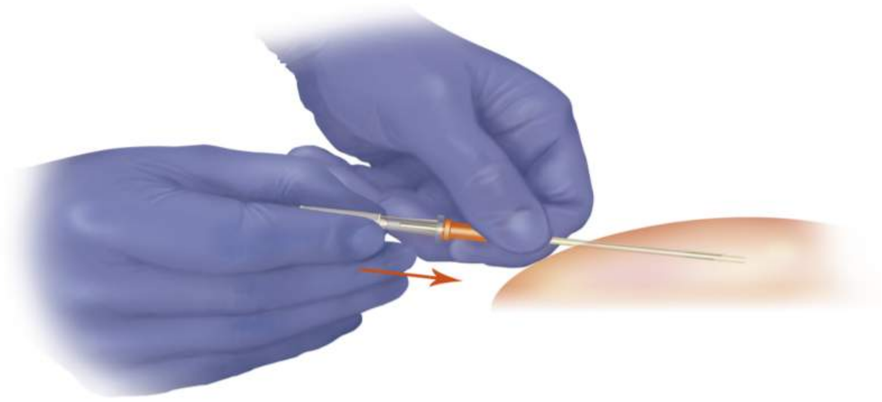
Fully biocompatible design featuring an **hermetic Ti capsule** with feedthroughs and PtIr electrodes, covered with Silicone

Design can be adapted for **different electrode counts** or configuration



Wearable transmitter

Power is transmitted through **electrically conductive fabric** in contact with the skin

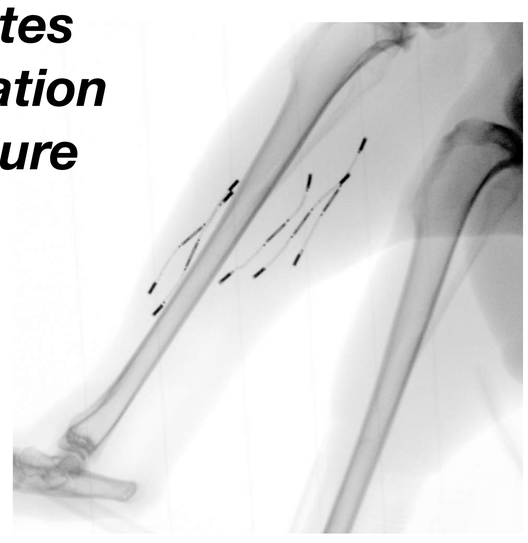


5 minutes implantation procedure

Multiple IPGs with a single transmitter

Each IPG can be **individually controlled**, **without precise placement** of the transmitter over the implant location

Multiple IPGs on an Animal Study



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