

STRETCHING INNOVATION



Other biomedical applications of stretchable nanocomposites

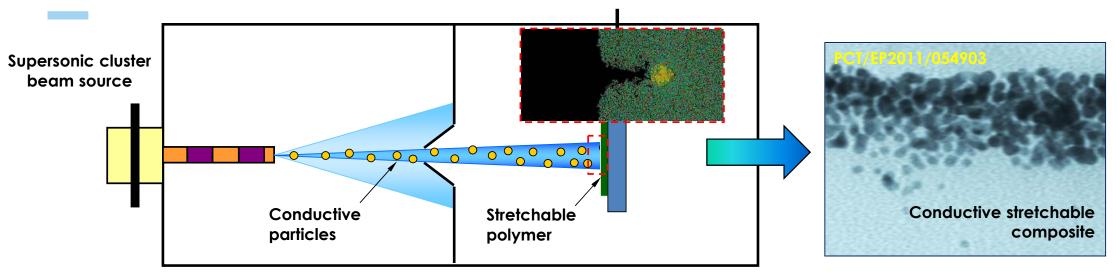
15 Ottobre 2021

Luca Ravagnan CEO

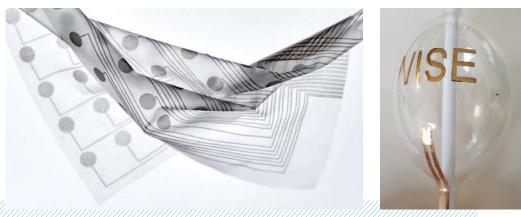
wiseneuro.com



The WISE's Supersonic Technology – SCBI

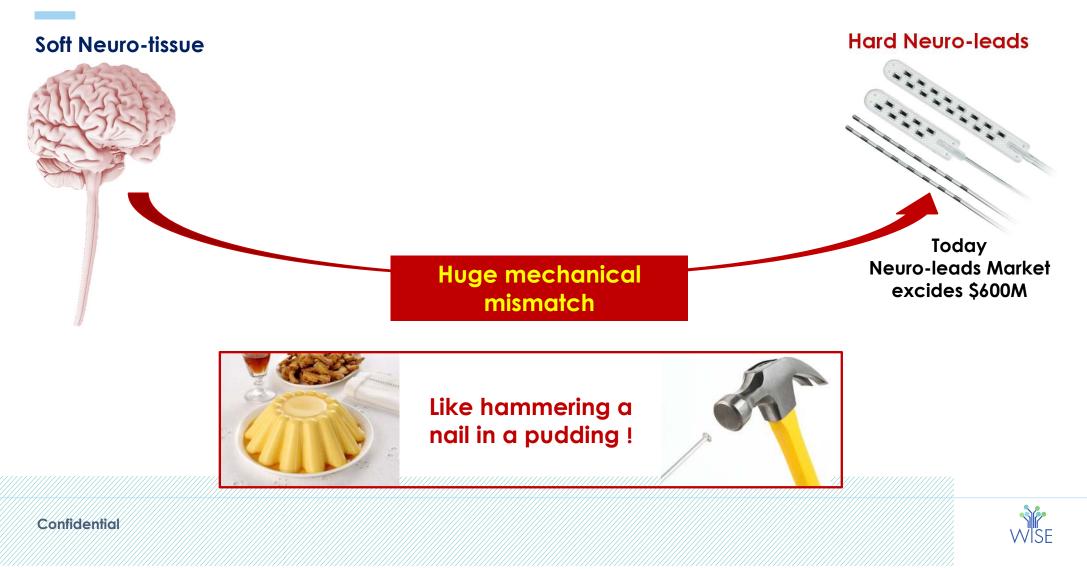


- Unrivaled stretchability
- Strain sensing
- Easy manufacturing
- > Arbitrarily soft & thin
- > Any shape, any size
- Curved surfaces / Balloons
- Biocompatible (ISO 10993-1:2009)

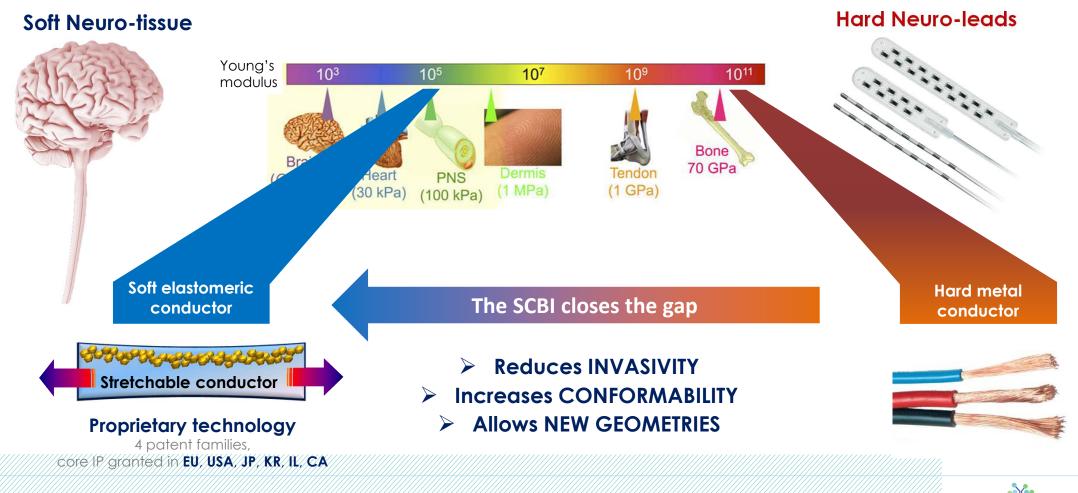




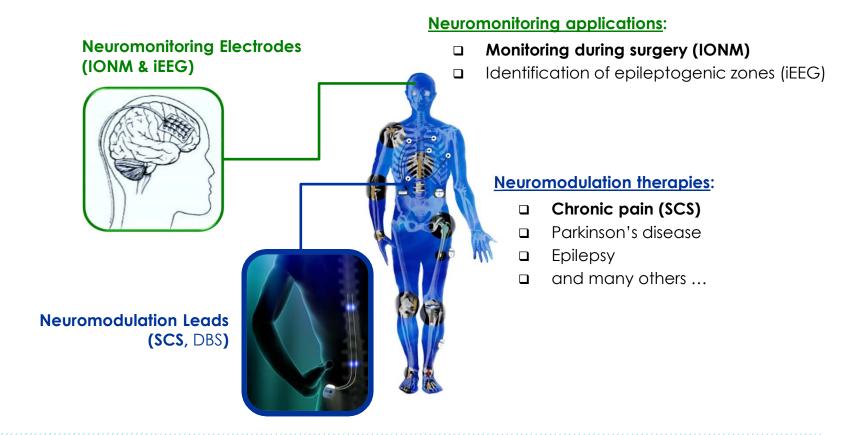
The unsolved Medical need of Neuro-leads



The unsolved Medical need of Neuro-leads



The Neuro-leads Scenario

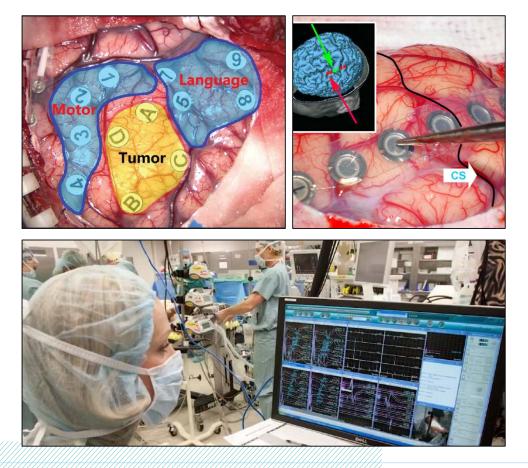




Cortical Strips for IONM: Overview

Cortical Strips are used on the brain surface for **stimulating the brain or recording the brain's electrical activity**.

- Intraoperative Neuromonitoring (IONM): Monitoring the functional integrity of neural structures during brain surgery (tumor or epilepsy)
- □ Single-use
- +50M\$ Existing Market, Market Potential for Brain Tumors 500M\$





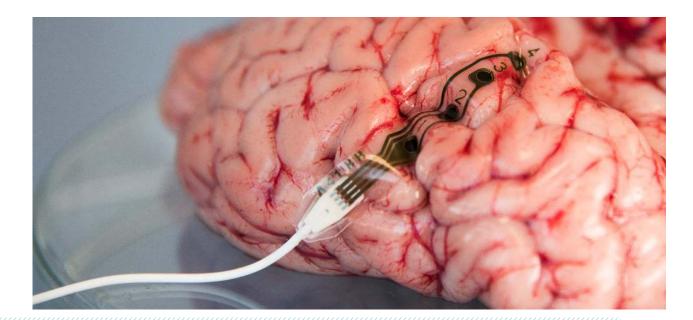
WISE Cortical Strip – WCS®



- » Highly ergonomic
- » Conformable
- » Soft and Thin
- » Superior adhesion
- » Excellent adaptability

Wise Cortical Strip (WCS[®]) is used for the recording, monitoring and stimulation of electrical signal on the surface level of the brain.

It supports monitoring during brain tumor resection.

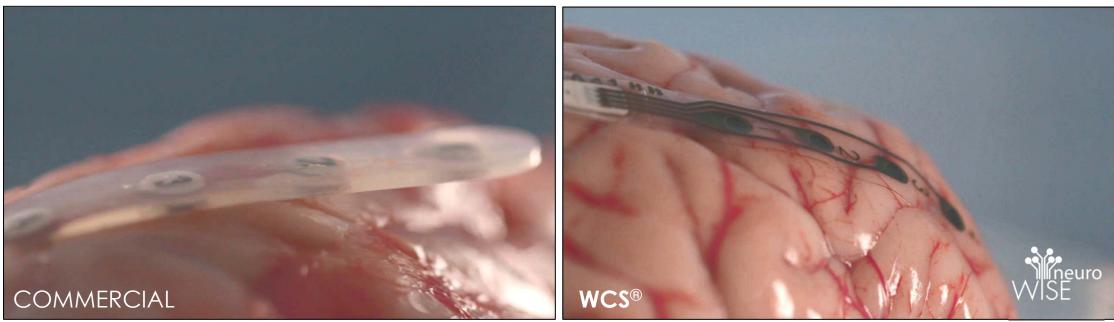




WCS[®] vs. Commercial

The Past

The **WISE** future



Test performed on an explanted bovine brain

Better contact to the brain



Improving the reliability of intraoperative Neuromonitoring



The WIN Study

PROTOCOL TITLE Wise Cortical Strip for Intraoperative Neurophysiological Monitoring (WIN Study)

OBJECTIVE To confirm safety, performance and intended use of the Wise Cortical Strip (WCS[®]) during intraoperative neurophysiological monitoring (IONM) in patients with diagnosis of brain tumor or epilepsy for CE certification purposes.

DESIGN Prospective, interventional, multi-center, open-label, premarket study.

POPULATION 32 adult patients

Country	Clinical Center
Germany	Ludwig-Maximilians-University, Munich, Germany
Switzerland	Universitätsspital Zürich, Zürich, Switzerland
	Kantonsspital Luzern, Luzern, Switzerland
	Inselspital Bern, Bern, Switzerland
Italy	Verona University Hospital, Verona, Italy

ClinicalTrials.gov Study Identifier: NCT03731455

Study successfully concluded

INVESTIGATION

SITES



WIN Study Highlights – Primary Outcomes

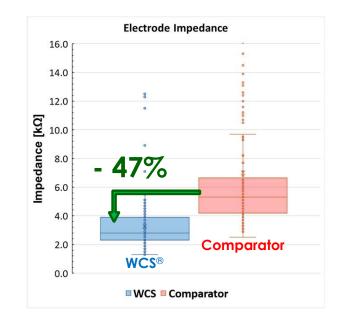
47% less impedance compared to Comparator

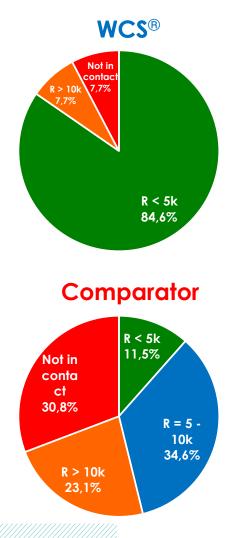
8 times better adhesion compared to Comparator

0% Device Related AE compared to Comparator reports



32 patients treated





WISE

Confidential

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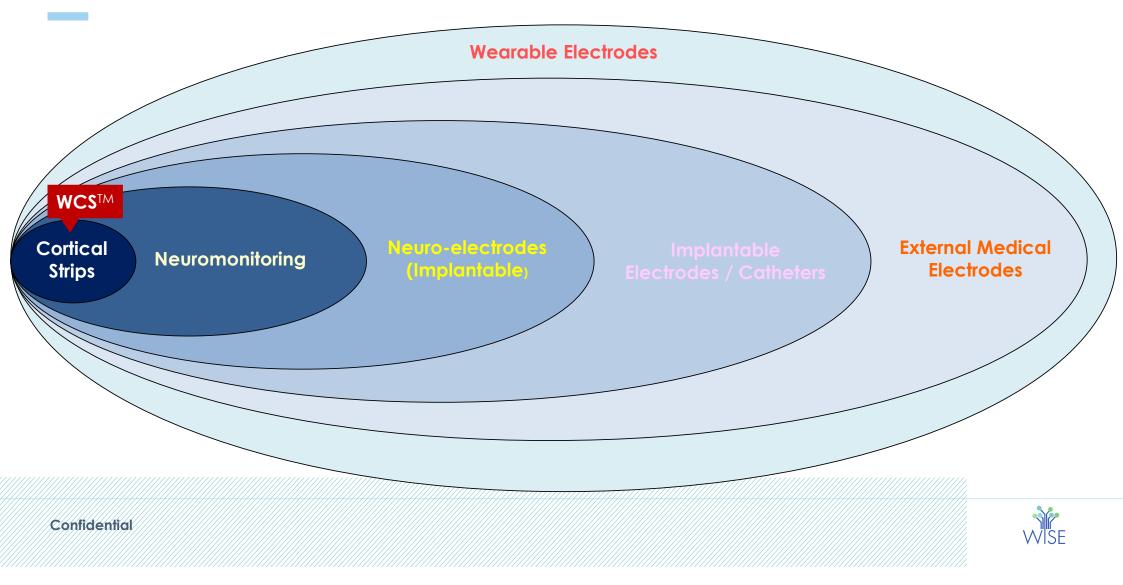


18.05.2021

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VISE

From Neuro to Medtech to Wearable Electronics



WISE's Team & Investors

Luca Ravagnan, PhD MBA CEO & Founder

Director of Administration & Finance



Giulia Salzano

- Developed and patented the SCBI technology
- Nanotechnology

➤ 15y experience in

Administration

Transfer MSc

- Business Administration & Strategy
- Endeavor Entrepreneur

Management & Grants

Innovation & Knowledge

Sandro Ferrari, PhD Director of Operations



- 15y experience in Materials Technology Industry
- Biomaterials Engineering
- Project Manager IPMA

Thomas Bianchi Business Development



> 20+y experience in Sales
& Marketing leadership:

Medtronic International, Stryker Europe, Covidien EMEA. Autonomic Technologies Inc. and SBG Lifesciences



<u>WISE Team</u>:

 24 operatives, 50% women, 83% graduated, 29% PhD or Master level





WISE's Factory

Italian headquarter:

- ▶ 1500 m² facility
- > Offices, Labs and Production
- > 120 m² ISO7 cleanrooms















STRETCHING INNOVATION

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