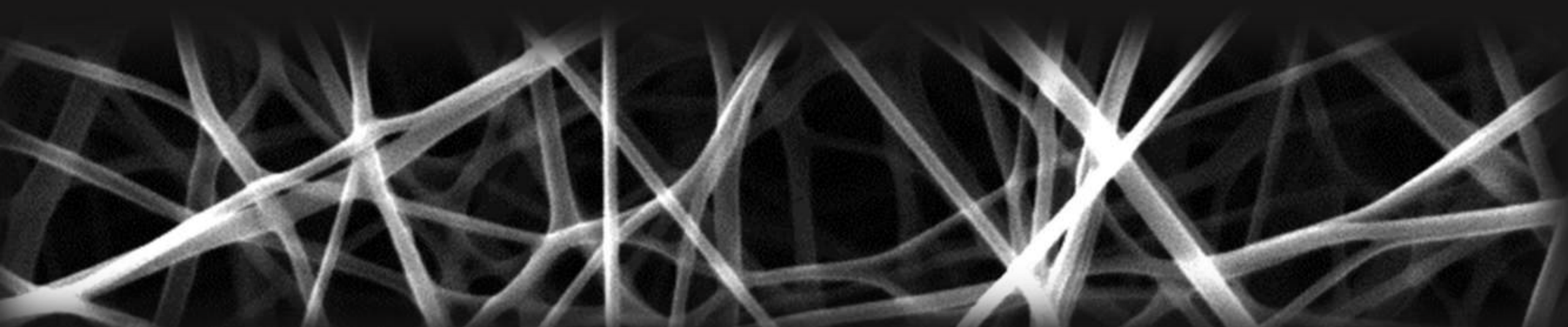


# NANOTECHNOLOGY IN MEDICINE



# NANOMEDICINE



CROSSING THE BARRIERS  
ACCESSING NEW SITES  
INCREASING BIOCOMPATIBILITY

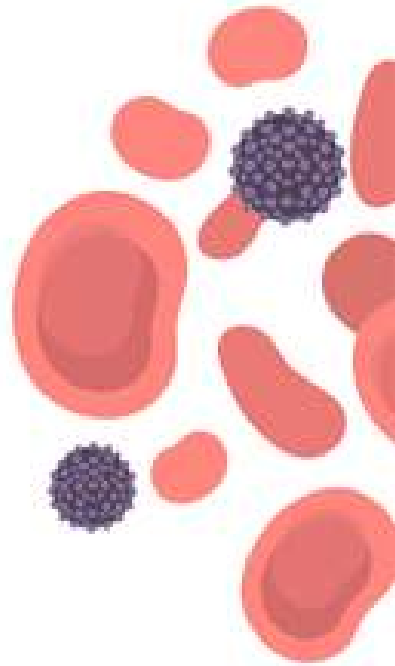
# CURRENT SITUATION

## **77 MARKETED PRODUCTS**

NANO-DELIVERY (44), PHARMACEUTICALS (18), BIOMATERIALS (15)

## **70 PRODUCTS UNDER CLINICAL TRIALS**

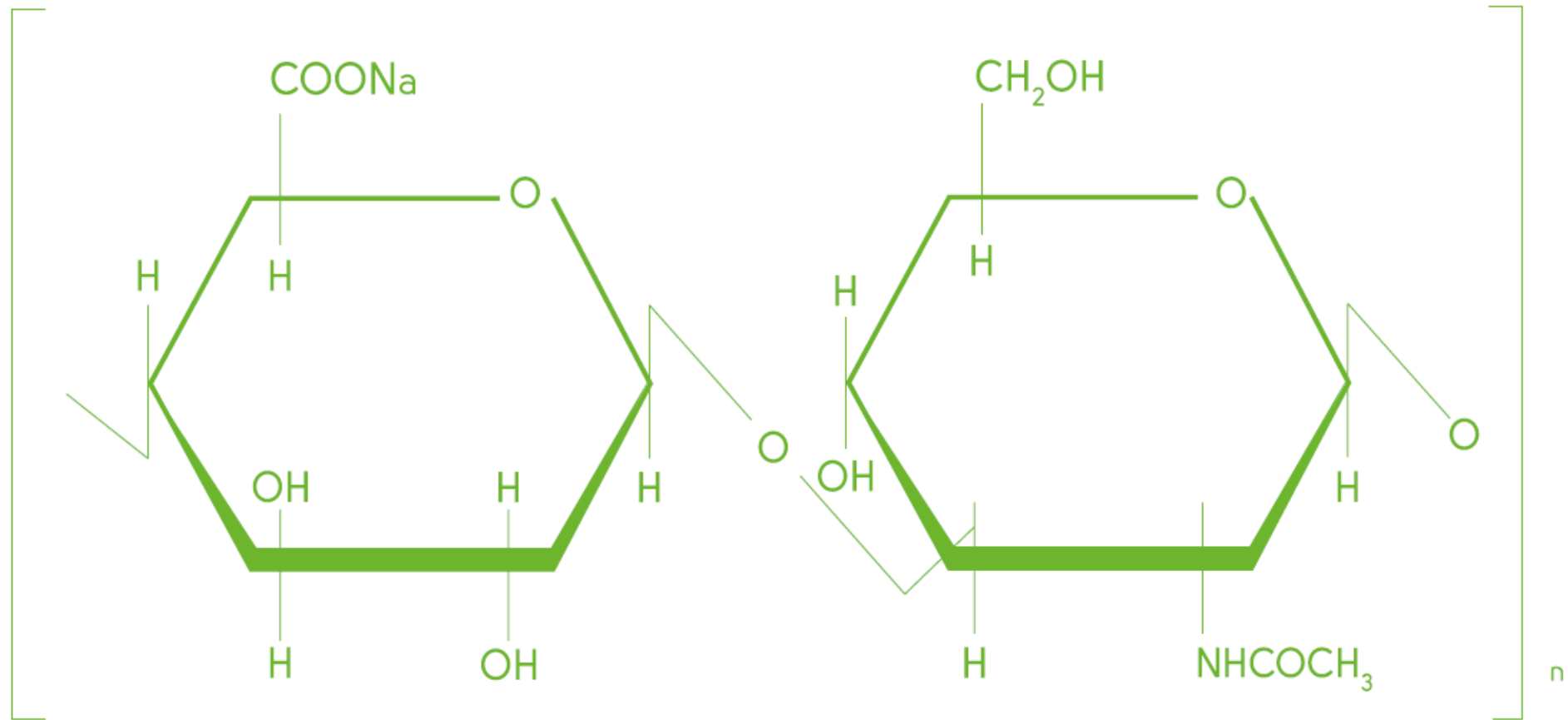
TREATING CARDIOVASCULAR, NEURODEGENERATIVE, MUSCOSKELETAL AND INFLAMMATORY DISEASES





# CONTIPRO

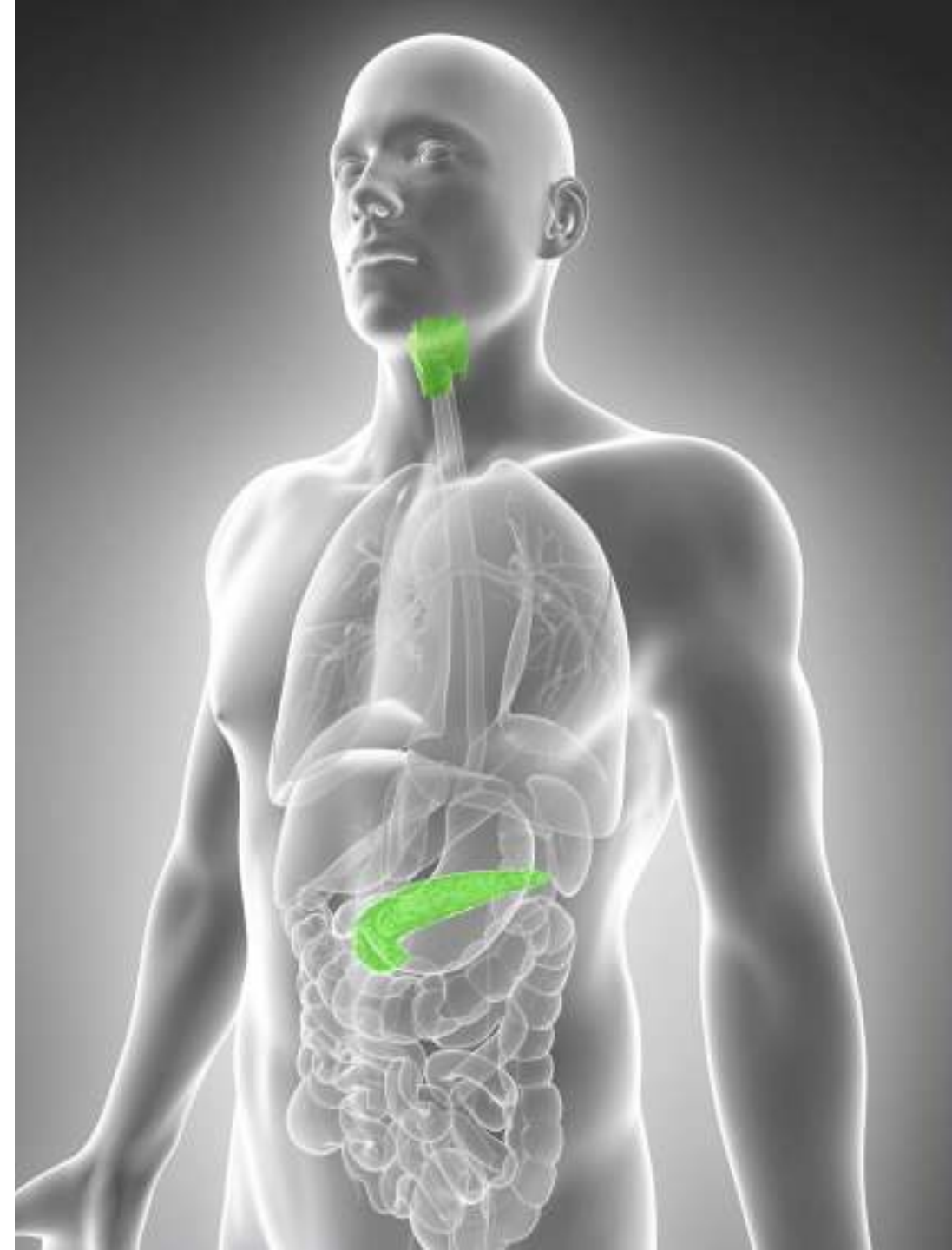
- GLOBAL LEADER IN BIOLOGY, PHYSICAL CHEMISTRY AND PRODUCTION OF **SODIUM HYALURONATE**
- **95%** OF PRODUCTION EXPORTED TO 50 COUNTRIES
- HIGH-TECH LABORATORIES COVERING AN AREA OF **3950 M<sup>2</sup>**
- HOLDING OVER **70 PATENTS** AND REGULARLY PUBLISHING



# HYALURONIC ACID

# HYALURONIC ACID

- ESSENTIAL COMPONENT OF ECM
- MAINTAINS OSMOTIC PRESSURE
- REGULATES CELL DIVISION
- PROMOTES HEALING
- LUBRICATES CARTILAGE
- PREVENTS OXIDATIVE DAMAGE





# CONTIPRO

## ACTIVE PHARMACEUTICAL INGREDIENTS

highest possible standards and  
quality of sodium hyaluronate

## ANTI-AGING SPECIALIST

active ingredients  
for cosmetic industry

## SPECIALITY HYALURONAN CHEMICALS

laboratory products  
for R&D purposes

## HYALURONAN FORMS

various forms of processed  
sodium hyaluronate

## WOUND HEALING

pharmaceutical products for  
wound healing based  
on hyaluronan

## VETERINARY PRODUCTS

animals wound care  
and arthritis

## NANOTECHNOLOGY DEVICES

development of new  
nano-applications  
from biopolymers

## REGENERATIVE MEDICINE

novel products for  
tissue engineering  
(under development)

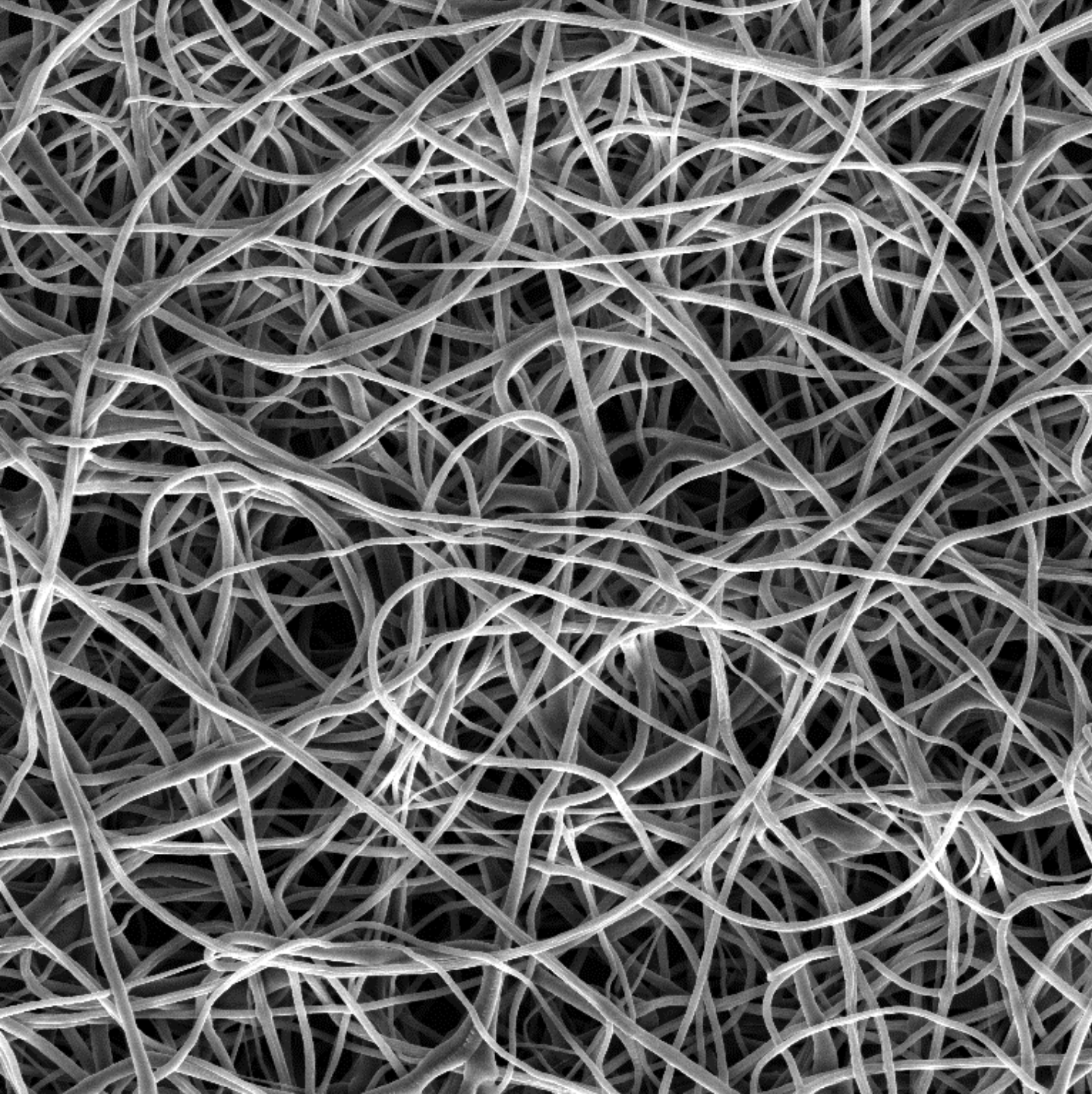
# HYALURONAN FORMS



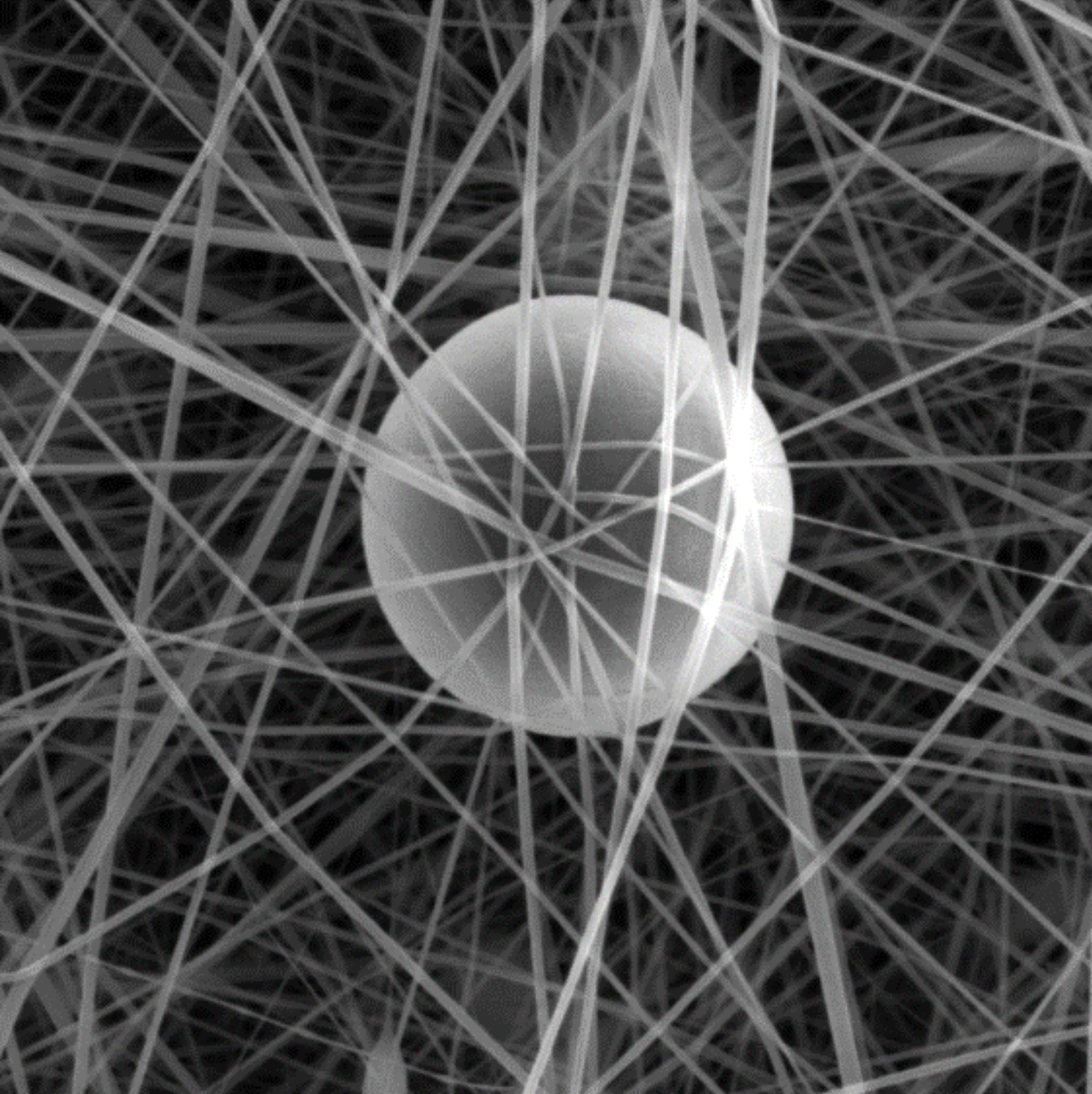




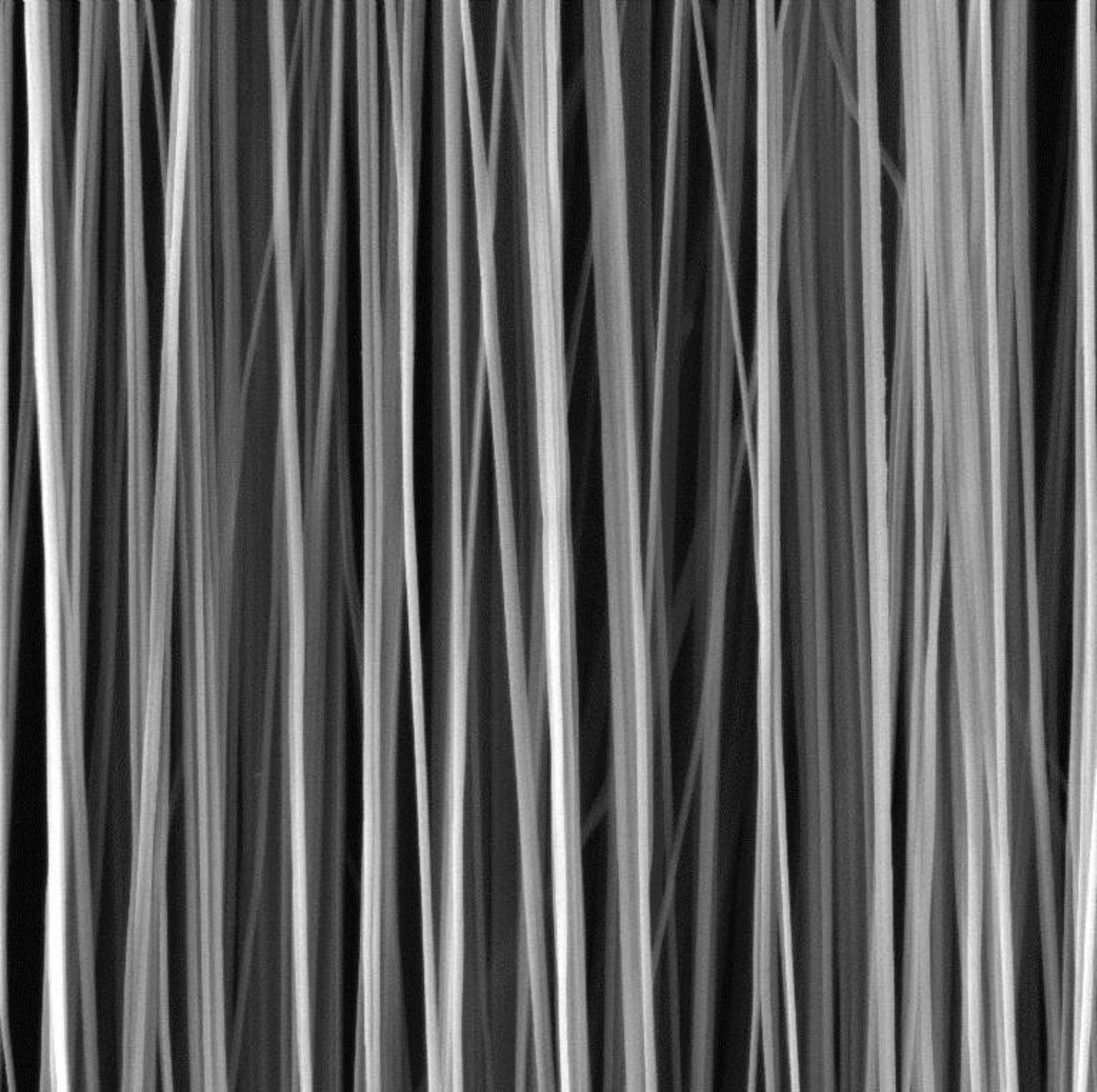
4SPIN®



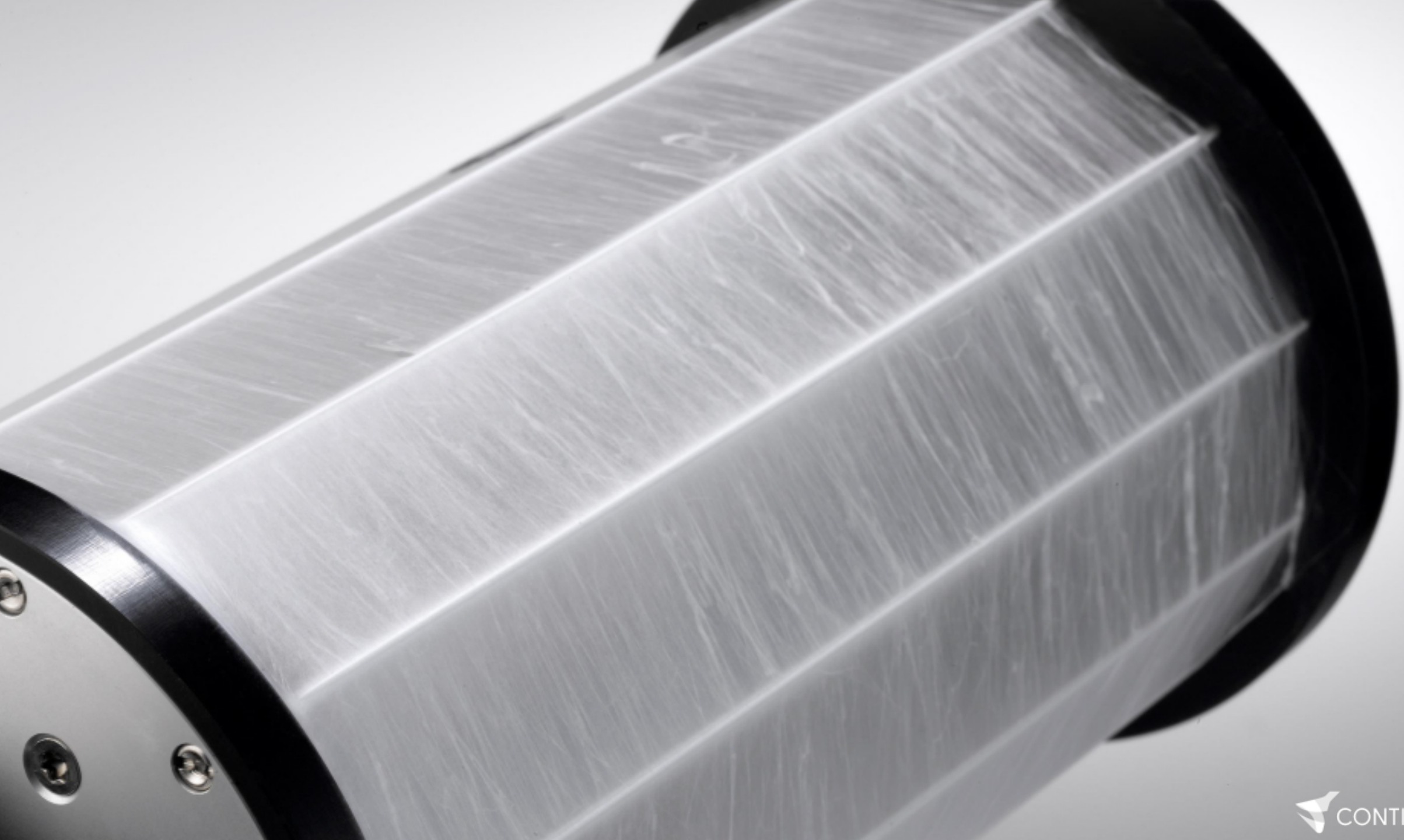
# BIOPOLYMERS



# COMPOSITES



# ALIGNED NANOFIBERS



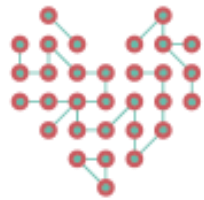
**4SPIN<sup>®</sup> CONTI**



# RESEARCH AND DEVELOPMENT COOPERATION

ACADEMIC INSTITUTIONS  
COMMERCIAL ENTITIES  
UNIVERSITIES

# INTERNATIONAL RESEARCH PROJECTS



**AMCARE**  
ADVANCED MATERIALS for  
CARDIAC REGENERATION

POST-HEART ATTACK  
TREATMENT



TREATMENT OF SPINAL CORD  
INJURIES

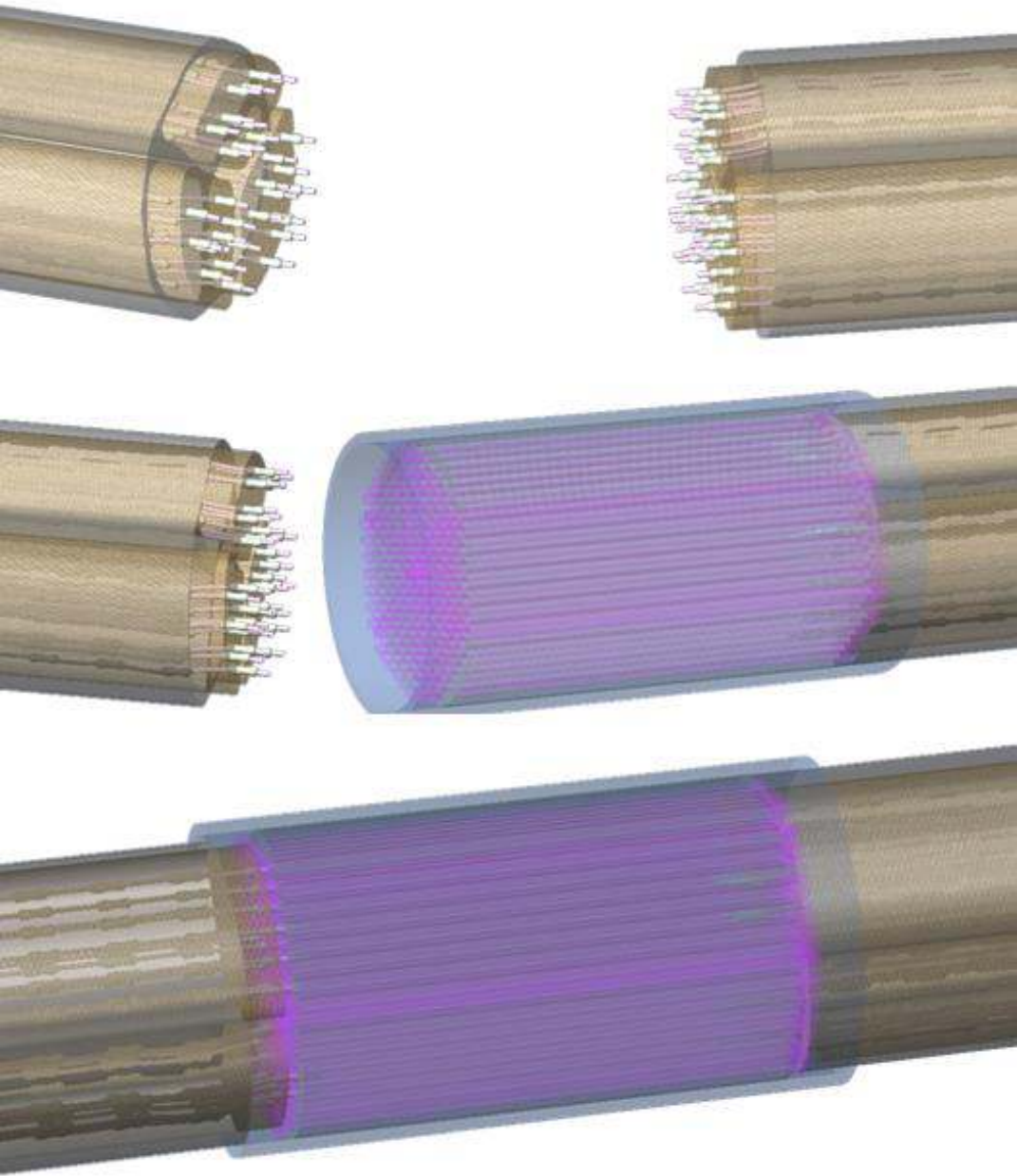


AVOIDING ADVERSE IMMUNE  
REACTIONS FOLLOWING IMPLANT  
SURGERY



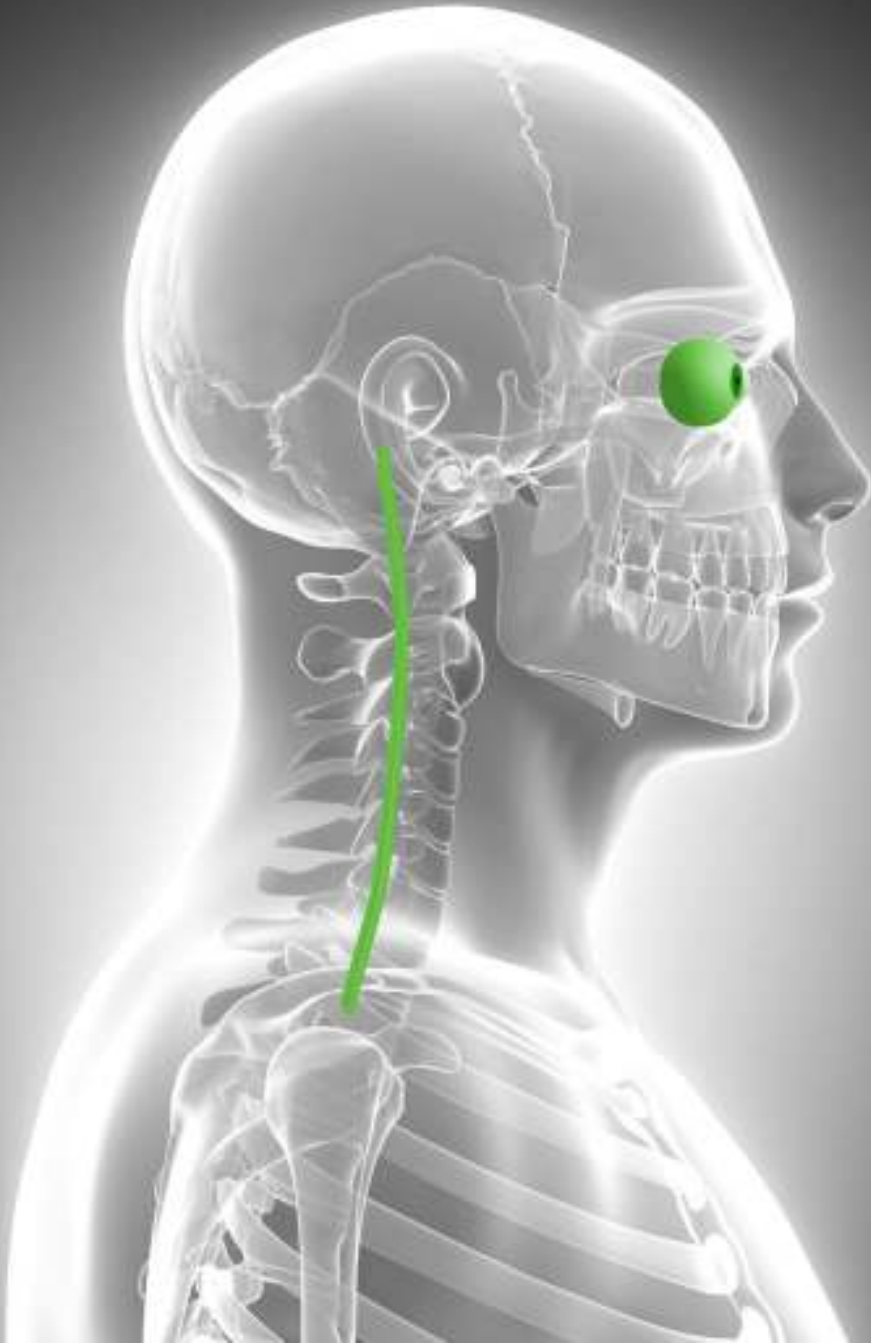
NOVEL BIOMIMETIC NERVE  
PROSTHESES





# NEURIMP

- BIOMIMETIC NERVE PROSTHESES
- HIGH THROUGHPUT MANUFACTURING

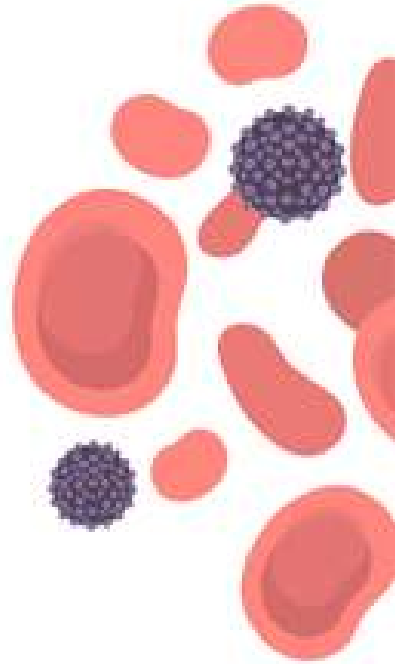


# NEURIMP

- PERIPHERAL NERVE REPAIR
- 1,000,000 PATIENTS PER YEAR

# PROSPECTS OF NANOMEDICINE

- FASTER DIAGNOSIS OF MANY DISEASES
- REPAIRING TISSUES INSIDE THE HUMAN BODY
- TARGETING ORGANS WITHOUT DESTROYING HEALTHY TISSUES



# FUTURE OF NANOMEDICINE

- KEY ENABLING INSTRUMENT FOR NEXT LEVEL DRUGS
- PROVIDING IMPORTANT NEW TOOLS
- IMPROVED AND COST EFFECTIVE HEALTHCARE

