

# EuroNanoMed

NEWSLETTER  
NUMBER 1

## **Project coordinator:**

**Burkhard Schlosshauer (DE)**

schlosshauer@nmi.de

## **Project partners:**

**Mikael Wiberg (SE)**

**Erhard Müller (DE)**

**Elias Fattal (FR)**

**Jorgen Kjems (DK)**

## **Nano-Functionalised Implants for the Regenerative Treatment of Spinal Cord and Nerve Lesions (Nano4Neuro)**

---

Nano-medicine can potentially help with the daunting task of treating spinal cord injuries and peripheral nerve lesions. The proposed project will utilise nanostructured resorbable implant tubes, enabling us to bridge lesion gaps in nervous tissue. The implants will contain RNAi nanotherapeutics to prevent scar formation and enable axon path-finding and regeneration. Special focus will be placed on siRNA nanoparticle formation including novel cell targeting labels in conjunction with the macro-implant. The nanotherapeutics technology is a cross-sectional technology that could easily be applied to other medical indications.