

# Dura-X – Development of a biomimetic, hybrid dural graft



PRINCIPLE INVESTIGATORS:

**Ran Xu, Anton Früh,  
Kiarash Ferdowsian, Peter Vajkoczy** Charité



MedTech



Surgery & Neurology

## SUMMARY

Neurosurgical procedures require opening and closure of the dura mater, the outer layer of meningeal membranes that cover the brain and spinal cord. Subsequently, it is of utmost importance to achieve an efficient and safe closure of the dura to avoid postoperative complications. However, commercially available grafts can pose risks such as inflammation, immune reactions or the potential for disease transmission.

The team aims to develop a novel dural graft designed for use in neurosurgical procedures, offering straight-forward handling to facilitate effective dural closure.

## PROJECT GOALS

- Design and develop a functional prototype of a biomimetic dural graft

## LONG-TERM GOALS

- Certification as medical device
- Clinical study
- Collaboration with industry partner or startup formation