

Project title: Intraaneurysmal implant with flow modulating properties

Partner: Phenox GmbH, Femtos GmbH, Ruhr-Universität-Bochum, Universitätsklinikum Aachen

Duration: 11/2018 – 10/2021

Funding Agency: European Regional Development Fund North Rhine-Westphalia (EFRE.NRW)

Univ.-Prof.
Prof. h.c. (Moscow State Univ.)
Dr.-Ing. Dipl.-Wirt. Ing.
Thomas Gries
Director

Thomas Schneiders
Researcher

Ref.: TS
12.02.2019

Mission Statement

The aim of the project is the development of a new intraaneurysmal implant with flow modulating properties for the neurointerventional therapy of vascular aneurysms in the brain (so-called cerebral aneurysms). Despite considerable progress in implant development and neurointerventional art in recent years, major challenges remain to reduce recurrence rates and complications during the elaborate interventional process. The main cause of recurrences is the lack of sealing of the aneurysm by the implants, which leads to the re-circulation of blood and thus to renewed growth of the aneurysm.

Approach

The innovative implant with its 3D structure is intended to simplify implantation and provide an ideal seal for the aneurysm. Challenges to be solved in the realization are the development of the construction of the filigree carrier structure, the research and development of a functionalized, fiber-reinforced membrane for sealing and vascular wall regeneration as well as the combination of these elements.

The successful implementation of the project will make an important contribution to improving treatment options for patients to prevent haemorrhagic stroke. Furthermore, the participating NRW companies will be able to hold their own in the tough international competition with the innovative medical product and contribute to value creation in the state through economic exploitation.

Acknowledgement

The project "Ianis" (EFRE-0801323) is funded by the European Regional Development Fund North Rhine-Westphalia (EFRE.NRW).



EUROPÄISCHE UNION
Investition in unsere Zukunft
Europäischer Fonds
für regionale Entwicklung



EFRE.NRW
Investitionen in Wachstum
und Beschäftigung

Contact

Thomas Schneiders
Tel.: 0241/80 49111
E-Mail: thomas.schneiders@ita.rwth-aachen.de