

# ENGINEERING OF NEW BIOMATERIALS AND BIOPHARMACEUTICALS FOR THE DIAGNOSIS AND TREATMENT (INBIO)

- Project title: Engineering of new biomaterials and biopharmaceuticals for the diagnosis and treatment of the cerebrovascular and neurodegenerative diseases
- Beneficiary: St. Anne's University Hospital in Brno
- Partners: BioVendor – Laboratorní medicína a.s., Contipro a.s.
- Program Title: OP VVV
- Priority Axis: PA 1 - Strengthening the capacities for high-quality research
- Project budget: 96 009 491 CZK
- Start date: 1. 9. 2018
- End date: 31. 12. 2022
- Length of the project (in months): 52 months
- Sustainability period: 1. 1. 2023 - 31. 12. 2027
- Main research coordinator: prof. Mgr. Jiří Damborský, Ph.D
- Website: <https://opvvv.msmt.cz/>

## Definition and objective of the project:

Within the project we will develop novel laboratory techniques, microfluidic chips, biomaterials and biopharmaceuticals for prevention, diagnosis and treatment of cerebrovascular and neurodegenerative diseases. We will combine expertise in molecular/cell biology, immunology and protein chemistry with clinical neurology and product development by two leading Czech biotechnology companies.

The main objectives of this project address the complex issues outlined in the previous section thanks to the unique expertise and long-term experience of academic, clinical and industrial partners involved. Applicant and project partners will benefit from the broad expertise of the academic partners in the fields of molecular and cell biology, microbiology, immunology, protein chemistry, informatics as well as clinical neurology and from the industrial partners experience with the development of high-added value products in the fields of biotechnology and biomedicine.



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