University of Gdańsk Technology Transfer Office

Serum peptide patterns for diagnostics of intracranial hemorrhagic stroke in humans and differential diagnosis of intracranial hemorrhagic stroke from acute ischemic stroke

About technology

Over the years, the analysis of the serum peptidome has been consistently limited for various reasons: enormous complexity, high protein content. concentration, instability of lowabundance proteins secreted or depletion peptides, steps and precipitation methods. All these problems occurring at different stages ultimately lead to a significant loss of the endogenous peptide biomarker. Moreover, the coexistence of these high abundance proteins hinders the efficient detection of low or very low abundance peptides. With these problems in mind, ICCVS has developed a novel approach without depleting or precipitating the serum proteome and a direct isolation platform for rapid, comprehensive and reproducible profiling of serum peptides by mass spectrometry. The invented innovation is globally applicable for the screening of significant peptides from all types of patient blood samples.



Research Team:

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IP protection

The invention is the subject of a European patent application EP22216488.1; EP22216509.4; PCT/EP2023/085452 and PCT/EP2023/085453

Implementation progress

TRL 4 –Technology validated in laboratory conditions

Cooperation opportunities

- Licensing agreement
- Transfer of ownership
- Spin off



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