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Novel method for sample preparation for qualitative and quantitative analysis of peptidome in serum based on amino acid sequencing with a tandem mass spectrometry and novel data analysis workflow for quantitative analysis of the peptides sequenced with a tandem mass spectometry

About technology

The invention refers to a serum samples preparation, qualitative and quantitative method for serum peptidome profiling for human samples. The invention approach is simple, cost-effective, fast, and comprehensive for serum peptidomics profiling. These serum peptides can be used for biomarker discovery, diagnosis, prognosis, prediction, monitoring, and differentiation of various human disease types.

The invention aimed to develop a sample preparation and comprehensive method for qualitative, quantitative analysis of serum peptidome samples. Moreover, this novel approach can be used routinely to discover multi-biomarkers for diagnosing, prognosis, monitoring, and predicting various diseases.

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IP protection

The invention is the subject of a European patent application **EP22216500.3** and **PCT/EP2023/081233**

Implementation progress

TRL 4 –Technology validated in laboratory conditions

Cooperation opportunities

- Licensing agreement
- Transfer of ownership
- Spin off

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