University of Gdańsk
Technology Transfer Office

chemistry

Non-invasive method for the diagnosis of Parkinson's disease

About technology

Parkinson's disease, is the second most commonly diagnosed neurodegenerative disease with an incidence of about 0.3 per cent in the general population and about 1 per cent in people over 60 years of age. Its most common symptoms in developing disease include:

- Resting tremor,
- Muscle stiffness,
- Slowing down of movement,
- Difficulty maintaining posture.

The first symptoms appear between the ages of 40 and 60, and diagnoses are made even later. The earlier the disease is diagnosed, the better the chances of implementing a treatment to slow down the development of the disease.
Researchers from the **University of Gdansk**, in collaboration with scientists from the Medical University of Gdansk, have developed a simple low-cost and **non-invasive method** for **diagnosing** predisposition to Parkinson's disease.

The method is based on the relationship between **hydrogen peroxide** and **17β-estradiol** and their metabolites as biomarkers and the compounds in the blood serum from the patient's blood sample.

Implementation progress

TRL 5 –Technology validated in an environment that stimulates real-world conditions.

Research Team

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IP Protection

The invention is the subject of patent protection:
- Poland: P.441360
- EU: EP23816430

Cooperation opportunities

- Licensing agreement
- Transfer of ownership
- Partnership for further research

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