University of Gdańsk
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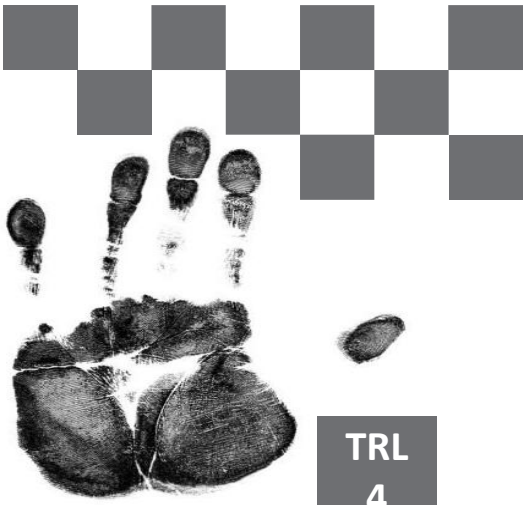
physics

A non-invasive method for estimating death, age and gender, a final solution based on free forms of tryptophan and free forms of NADH, and a device for implementing this method



TRL 4

About technology

Existing methods of estimating the time of death are mainly based on observing post-mortem changes, such as cooling, concentration and livor mortis, which have been used since the 18th century. However, these methods are subjective and sensitive to environmental factors.

The offered invention for a **non-invasive method of determining the time of death up to 48 hours** differs significantly from existing methods.

The invention is based on the sweat-fat substance found in fingerprints and on the surface of the skin of the hands, as well as the determination of the age and biological sex of the person being examined, using the free form of tryptophan and nicotinamide adenine dinucleotide (**NADH**) present in the sweat-fat substance, and a solution based on free tryptophan and the free form of NADH.

Research Team

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IP Protection

The invention is the subject of patent application:

- Poland: **P.452408**

Cooperation opportunities

- Sale of property rights
- Licence
- Partnership for further research and commercialisation

Implementation progress

TRL 4 -Technology validated in laboratory conditions.

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