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TRL

ALZHEIMER EARLY TEST

Description

The software addresses the need to identify the risk of developing Alzheimer's disease in patients at an early stage of life, which can be crucial for implementing preventive interventions and more effective treatment, but above all for planning in advance the legacy that the affected person will leave to their family and loved ones, as well as for making the best decisions together for both parties.

Using a machine learning algorithm trained with data from the GERO cohort, the software has the ability to predict the risk of a patient developing Alzheimer's disease at an early age. It is based on dimensionality reduction techniques to analyze a panel of microRNA data from the GERO cohort, which includes information on mental health, laboratory chemistry measurements, and other relevant variables. This approach allows the software to generate accurate and personalized predictions about the risk of Alzheimer's for each patient, which can guide clinical decisions and improve health outcomes.

Applications

- Medical diagnostics.
- Health sciences.
- Machine Learning development.

Advantages

- Allows for early preventive measures.
- High accuracy.
- It reduces results bias.

Intellectual Property Status

- Not granted

Research Team

- [Claudia Durán Aniotz](#)
- Research Profile