

# Protein by protein



The **Protein-ID** project aims to identify, thanks to state-of-the-art technologies, each individual's set of proteins

## Reading our proteome

Identify the **proteome** of a single individual can significantly help us to understand how our body works, and to efficiently **prevent** and/or **treat** most of the existing pathologies.

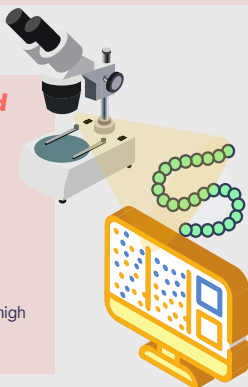


## Each one is different

This kind of **personalized medicine**, however, can hardly be applied using conventional approaches for characterizing proteins. To solve this problem, ProID will develop the **next-generation platforms** for sequencing proteins, peptides, and in a next step, RNA/DNA

## Combining spectroscopy and computation

The ProID approach relies on **nanopore technologies** and **ultrafast Raman spectroscopy**, a technique that allows to monitor structural change and chemical reactivity in real time. Moreover **machine learning algorithms** and **quantum computations** will allow to reach extremely high sensitivity, up to single molecule level.



Find out more on Protein-ID, following its results and developments, on:



<https://proidproject.eu>

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