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In collaboration with **Prof. R. Aebersold**
Systems Biology

ETH

Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich





PROJECT IDEA



Our aim is to identify **biomarkers from the proteom** and / or from a **sub-proteom of the blood serum** in order **to diagnose hereditary muscle diseases at the earliest clinical stage** (first symptoms). In parallel, we currently establish a system for efficient mutation detection in any of the many genes involved in muscle diseases. With the supportive results of the genomics approach, the analysis of the blood serum proteom will lead to a fast, specific and sensitive diagnostic tool.

In addition, the comparison of genomic and proteomic data might lead to the identification of disease pathways.





FIRST CHOICE TOPIC FOR 4th CALL (2)

LIFE SCIENCES, GENOMICS AND BIOTECHNOLOGY FOR HEALTH



Development of new diagnostics

⇒ LSH-2005-1.2.2-1: High throughput molecular diagnostics for hereditary diseases

INTEGRATED PROJECT

The project should lead to the development of advanced tools by incorporation of genomics, proteomics and metabolomics in combination with advanced read-out technology. Deliverables must be the development of high throughput, sensitive, reliable and especially cost available genetic tests. The project must address quality assurance issues and should offer opportunities for industrial exploitation and SMEs. Consideration may be given to ethical issues related to the diagnosis of hereditary diseases.

Former participation in a FP6 Project: First approach

