

Why we age?

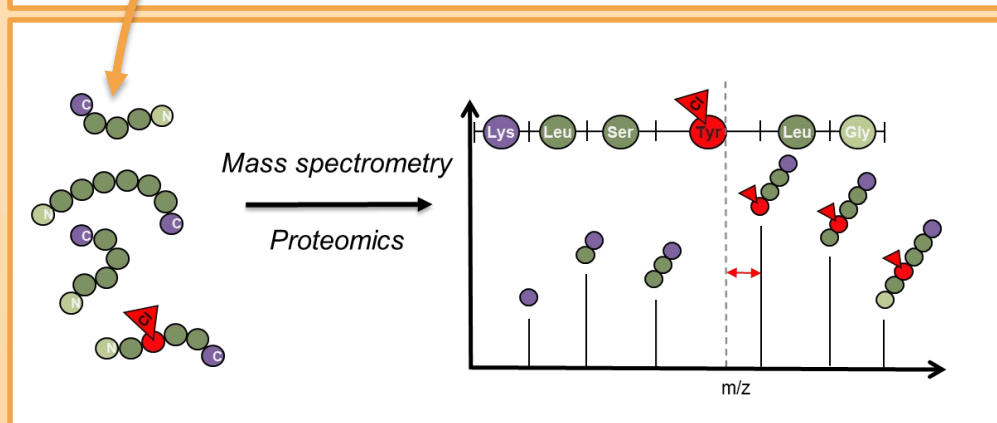
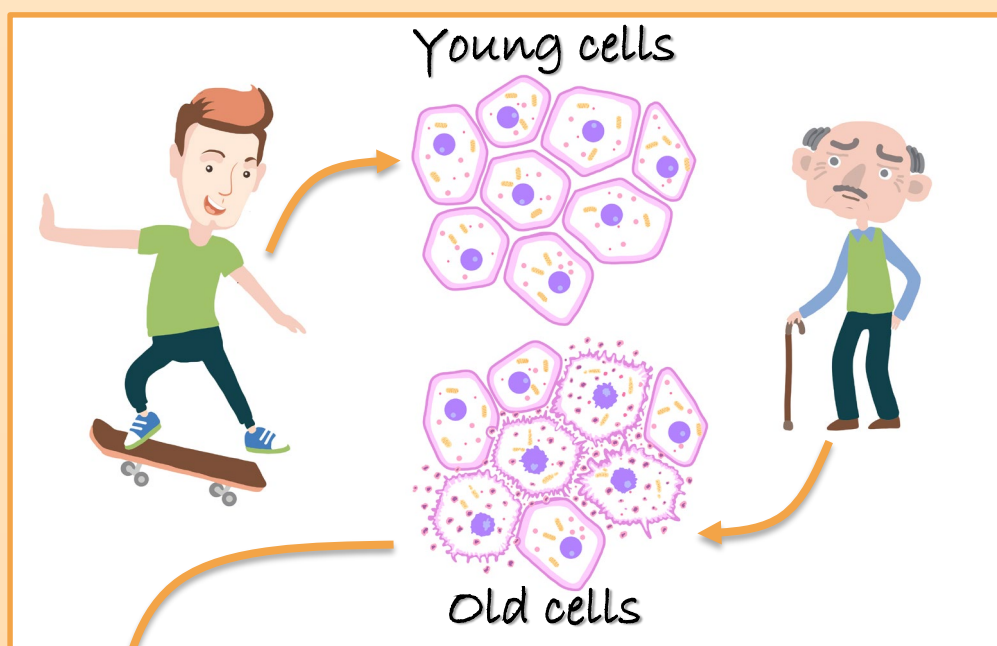
The molecular processes behind ageing and age-related diseases

PROTEIN
OXIDATION
& AGEING
GROUP



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Core research topics

We aim to understand the molecular processes underlying ageing by focusing on the following:

- Does protein oxidation cause ageing?
- How does the loss of stem cells function contribute to ageing?
- *In vitro* models of age-related diseases: metabolic syndrome, obesity, diabetes and fatty liver.

Research methods

Related projects

Proteomics and mass spectrometry

Identification and quantification of oxidized proteins in the extracellular matrix

Muscle stem cells

Analysis of signaling networks involved in muscle stem cell differentiation

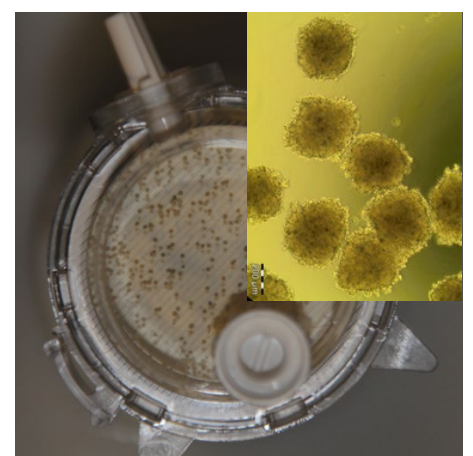
3D cell culture

Animal friendly - human cell-based model of non-alcoholic fatty liver disease

Bioinformatics

Protein complexes - exploring hidden information in proteomics datasets

Human mini-livers



We are working towards replacement for animal experiments.