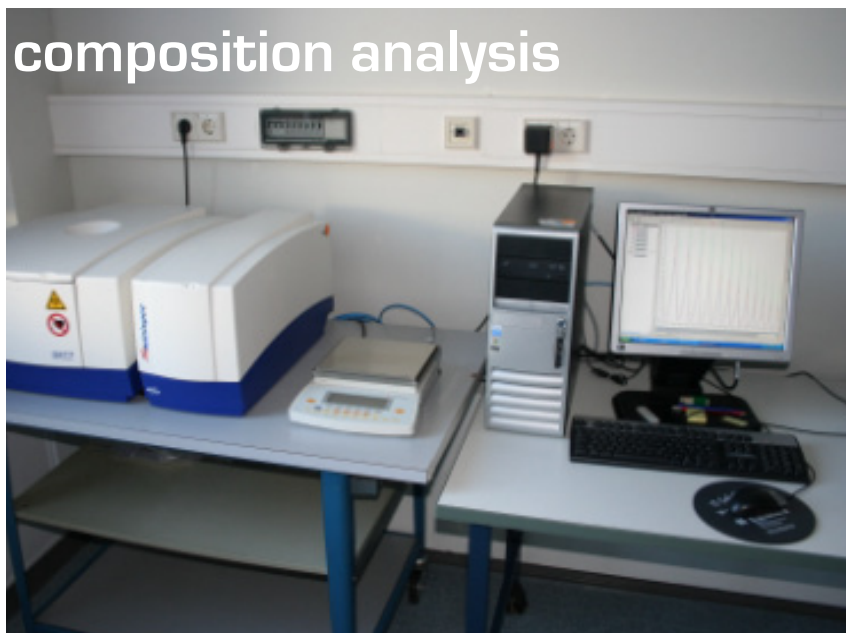


## Stress-free body composition analysis



### Reduction

**In the field of cardio-metabolic disorders, like Type 2 Diabetes, compounds are being developed to influence body weight. New technologies allow researchers to study fat loss without sacrificing the animal.**

The growing incidence of cardio-metabolic disorders - like Type 2 Diabetes - and their major consequences for health and society, are the reasons for continuous search for adequate treatments with the least side effects.

Losing fat is beneficial for cardio-metabolic diseases. Thus a crucial question about the effect of a compound is if the weight loss has indeed been fat loss. To evaluate this, animals would previously have had to be humanely killed for post-mortem analysis.

**Time Domain Magnetic Resonance (TD NMR)** provides a rapid and precise measurement of fat and lean tissue:

- It is non-invasive
- It takes less than two minutes with minimal stress for the animals (no need for anesthesia)
- It allows multiple measurements

The use of this method dramatically reduces the total number of animals required. Additionally, the animals serve as their own statistical control group, resulting in better quality data with fewer animals per group.