

# Course in Quantitative Proteomics

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**The Proteomics Unit at University of Bergen (PROBE), August 21<sup>th</sup> – 24<sup>th</sup>, 2012.**

This FUGE funded course will include lectures, practical work and demonstrations of different quantitative proteomics techniques and software to analyse data from different quantitative methods. The course is meant for people with moderate to no prior knowledge in quantitative proteomics and who will use such methods in the near future. The course stretches over four full days, August 21<sup>th</sup> – 24<sup>th</sup>.

The course is **free of charge** and some expenses regarding travelling and accommodation can also be covered (Probably up to 3000 NOK per participant, depending on the number of participants in need of travelling/accommodation).

Lunch is included in the course all days, and one common dinner on Tuesday August 21<sup>th</sup> is also covered.

**The course will in particular cover:**

Sample preparation

Database searches of proteomics data

Label-free quantification

Selected reaction monitoring (SRM)

Isobaric tag for relative and absolute quantification (iTRAQ)

The participants will learn theory, and get hands-on practical experience in the laboratory techniques and data analysis for these subjects.

**Practical:**

- Sample preparation
- Label-free analysis
- SRM
- iTRAQ
- Bioinformatics

**Lectures:**

- Introduction to proteomics
- Sample preparation
- Experimental set-up and bioinformatics analysis
- Applications of label-free quantitative proteomics
- iTRAQ
- Label-free
- SRM
- Bioinformatics

There will be invited speakers from abroad and from other proteomics laboratories in Norway (NorProteomics nodes), in addition to local speakers from PROBE.

### **Registration**

Applications should include:

- Short CV, information on your background in proteomics and why you would like to attend the course.
- A short recommendation letter from supervisor/group leader is also desirable.
- Maximum number of participants: 12

Applications should be sent to Frode.Berven@biomed.uib.no (**deadline Friday July 6th**).

If more than 12 people apply, the committee (Frode Berven and Frode Selheim) will select the most appropriate applicants based on their background and how much they are going to work with proteomics in the future.