



Protein Chemistry / Proteomics
Research Programs
Faculty of Medicine

Introduction to Basic Protein Chemistry and Proteomics 2007

Biomedicum Helsinki (Haartmaninkatu 8), 00290 Helsinki, Finland

26 -30.11.2007

Program (Please check for possible late minute updates!!)

Monday 26.11 (Introduction, Electrophoretic Methods)

Seminar Room 3 and Lecture Hall 1, (Biomedicum P-floor)

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| 09.15 – 09.30 | Introduction to course (MB) |
| 09.30 – 10.00 | Electrophoretic methods in basic protein chemistry (MB) |
| 10.15 – 10.30 | Coffee break |
| 10.30 – 11.15 | 2-D Electrophoresis in proteomics (MB) |
| 11.15 – 11.45 | Advanced use of electrophoretic techniques in protein chemistry laboratory and magic tricks (MB) |

Tuesday 27.11 (MS in Protein analysis, Chromatographic methods)

Seminar Room 1-2, (Biomedicum P-floor)

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| 09.15 – 10.00 | Mass-spectrometry in basic protein analysis I (NK) |
| 10.00 – 10.45 | Mass-spectrometry in basic protein analysis II (NK) |
| 10.45 – 11.00 | Coffee break |
| 11.00 – 11.45 | Ion exchange and affinity chromatography (JV) |
| 11.45 – 12.00 | Questions and answers |

Wednesday 28.11 (MS in proteomics, High-throughput techniques, Edman degradation, Carbohydrates)

Seminar Room 3, (Biomedicum P-floor)

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| 09.15 – 10.00 | Mass spectrometry technology in Proteomics (TN) |
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10.00 – 10.45	High-throughput techniques in proteomics, Sequence analysis by Edman degradation (MB)
10.45 – 11.00	Coffee break
11.00 – 11.45	Carbohydrates in proteins (LV)
11.45 – 12.00	Questions and answers

Thursday 29.11 (Databases, Quantification methods)

Seminar Room 1-2, (Biomedicum P-floor)

09.15 – 10.00	Protein quantification and detection (JV)
10.00 – 10.45	Near Infrared Detection in protein quantification (IJ)
10.45 – 11.00	Coffee break
11.00 – 11.45	Databases in proteomics, magic tricks (MB)
11.45 – 12.00	Questions and answers

At 13.00 we will continue with the Special Seminar “Basic Proteomics goes Functional” in the Seminar Room 1-2. Please check the separate Announcement.

Friday 30.11 (Labeling techniques)

Seminar Room 1-2, (Biomedicum P-floor)

09.15 – 10.00	Differential Fluorescence Gel Electrophoresis Proteome profiling (JJ)
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Right after this lecture we continue with the Hands-on part of the Special Seminar “Basic Proteomics goes Functional” and then at 13.00 in the Seminar Room 1-2 with additional lectures. Please check the separate Announcement.

The Course is sponsored by:

The Finnish Graduate School Network in Life Sciences and especially FGSN, GSBM, HBGS and VGSB

And organized by:

Protein Chemistry/Proteomics Unit at the Biomedicum Helsinki with the help of Nisse Kalkkinen (NK, HY), Jaana Vesterinen (JV, HY), Leena Valmu (LV, SPR), Tuula Nyman (TN, HY), , the Finnish Proteomics Society (FinnProt) and many others. (JJ) is Jussi Junkkarinen from GE Healthcare and (IJ) Isto Jänönen from FinnZymes.

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