FRM-KJM9915 – NFIF – Forefront bioanalytical chemistry

Time and place

October 12-16, 2015, School of Pharmacy, University of Oslo

Course content

This course focuses on the latest research and development of new technologies and applications in bioanalytical chemistry. The main focus will be directed towards techniques related to chromatography, electrophoresis and mass spectrometry, including sample preparation. Applications for small molecule drugs, peptides, and proteins in biological fluids will be highlighted. Also, the course will focus on presentation of scientific data in bioanalytical research.

Learning outcome

After completing the course the student should:

- Have an overview of the main research trends in bioanalytical chemistry
- Be able to evaluate the potential of new technologies and techniques in bioanalytical chemistry
- Be able to evaluate the applicability of published methods in bioanalytical chemistry
- Be able to present research data in bioanalytical chemistry in a research paper
- Be able to present research data in bioanalytical chemistry in a lecture

Admission

The final registration deadline is 15. September. Registration is done by filling out an online application form. PhD candidates who are admitted to other education institutions than UiO must at the same time apply for visiting status. They must submit the same documentation as regular visiting status applicants, but the application and documentation is to be sent by e-mail to The School of Pharmacy, instituttkontoret@farmasi.uio.no and not to the Faculty point of contact. Applicants must be able to present original documentation on request. If the number of applicants exceeds the number of places available, PhD students who are members of the Norwegian School of Pharmacy will have priority.

Teaching

The course is centered on a one week obligatory session held in Oslo from Monday morning to Friday afternoon. The week in Oslo will include lectures (22 hours) and discussion sessions (12 hours) by local, national, and international invited speakers within the topic of bioanalytical chemistry. Within the week in Oslo the attendees will give an obligatory short presentation of their own research project. In addition, the attendees will present three pre-selected research articles during the week in Oslo (obligatory). Finally, after the week in Oslo, the attendees will prepare a review article for a national journal in chemistry or pharmacy based on one of the subjects covered by the course (obligatory).
Key lecturers

Two international experts will be invited to give key lectures. In addition, Leon Reubsaet (UiO), Trine Grønhaug Halvorsen (UiO), Astrid Gjelstad (UiO), Elsa Lundanes (UiO), Steven Wilson (UiO), Einar Jensen (UiT), and Stig Pedersen-Bjergaard (UiO) will give key lectures.

Assessment

Each student has to be present full-time during the one week in Oslo. Each student has to give a short lecture (10 min) about own research, three lectures (90 min in total) related to pre-selected articles, and write a review article for a national journal in chemistry or pharmacy based on one of the subjects covered by the course

Grading scale

Grades are awarded on a pass/fail scale

Organizer

The course is organized by the School of Pharmacy at the University of Oslo in cooperation with the National PhD School in Pharmacy and the Department of Chemistry at the University of Oslo

Responsible

Stig Pedersen-Bjergaard, UiO

Facts about this course

Credits: 5 stp

Level: PhD

Teaching: October 12-16, 2015

Teaching language: English

Registration deadline: 15. September

Host institution: UiO