



FEK3100 BioTas I Journal Club

4,5 hp

BioTas I Journal Club

När kurs inte längre ges har student möjlighet att examineras under ytterligare två läsår.

Fastställande

Kursplan för FEK3100 gäller från och med HT13

Betygsskala

Utbildningsnivå

Forskarnivå

Särskild behörighet

Recommendation:

The course content is tuned for PhD students in the fields of MEMS, Cell Physics, biotechnology, and the like.

Undervisningsspråk

Undervisningsspråk anges i kurstillfällesinformationen i kurs- och programkatalogen.

Lärandemål

After completing the course, the student should to pass the course be able to:

- Present orally the technical content of a scientific article to non-experts
- Be able to analyze and discuss scientific articles with their peers with respect to: the writing style; scientific statements; scientific ethics questions relating to presented data; and scientific merits and validity of the presented research.
- Analyze completeness and reproducibility of presented experimental procedures.
- Suggest alternative manners to formulate statements in results and discussion and conclusions sections in a given scientific articles.
- Be acquainted with a broad spectrum of scientific articles in the bio-, micro- and nanofluidics area.

Kursinnehåll

This course consists of a detailed study of scientific articles in the field of bio-, micro- and nanofluidics. The course content is tuned for PhD students in the fields of MEMS, Cell Physics, biotechnology, and the like.

Kursupplägg

We meet every second week for discussing a specific article. One student is chosen as the presenting participant, and this on a rotation basis. The presenting student selects a "high quality / high learning factor" scientific article related to the fields of lab-on-chip, microfluidics, biosensing technologies, microscale chemical/biological/medical systems, etc, and distributes the article to the other participants. The choice of article must be approved by the course responsible.

The article discussion is divided into five different topic areas: 1) Presentation of the article performed by the student who selected it; 2) discussion on the writing style, presentation of background information, experimental details; 3) the statements made in the results and discussion sections; 4) scientific ethics; and 5) scientific merits and the validity of the conclusions made. For topic areas 2, 3, 4 and 5 discussion is led by a student selected at random from the participants at the meeting.

Kurslitteratur

N/A

Utrustning

None

Examination

Examinator beslutar, baserat på rekommendation från KTH:s handläggare av stöd till studenter med funktionsnedsättning, om eventuell anpassad examination för studenter med dokumenterad, varaktig funktionsnedsättning.

Examinator får medge annan examinationsform vid omexamination av enstaka studenter.

To be given a passing grade at the meeting, students need to prepare for all topics areas except topic area 1 and be ready to lead the discussion if selected at the meeting. All students are expected to be active participants during the meeting.

Övriga krav för slutbetyg

The students gain 1.5 studypoints for every fifth meeting they participate in until they reach 4.5 study points. The course is then reported as passed.

Etiskt förhållningssätt

- Vid grupparbete har alla i gruppen ansvar för gruppens arbete.
- Vid examination ska varje student ärligt redovisa hjälp som erhållits och källor som använts.
- Vid muntlig examination ska varje student kunna redogöra för hela uppgiften och hela lösningen.