



GÖTEBORGS UNIVERSITET

Sahlgrenska akademien

## **SB00003, Inflammation, 1,5 högskolepoäng**

### **Inflammation, 1,5 higher education credits**

*Forskarnivå/Third cycle*

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#### **1. Fastställande**

Kursplanen är fastställd av rådet för forskarutbildningsfrågor 2012-09-18

Kursplanen gäller från och med vårterminen 2013

Ansvarig institution: Biomedicin

#### **2. Inplacering**

Kursen ingår som en valbar kurs i utbildningen på forskarnivå vid Sahlgrenska akademien.

#### **3. Förkunskapskrav**

Antagen till utbildning på forskarnivå

Behörig till kursen är den som är antagen till utbildningen på forskarnivå.

#### **4. Innehåll**

This is a course in Inflammation aimed at students registered for a PhD program. It is designed to be of particular interest and use to students who have some aspect of Inflammation as a component of their doctoral research program without necessarily having had direct tuition in the subject. Because Inflammation encompasses a wide range of biological disciplines – Immunology, Biochemistry, Cell Biology, Microbiology, etc, no assumptions are made regarding the prior experience of the student.

The first two days of the course comprise an intensive update of critical mechanisms considered to be required for an understanding of the principles of Inflammation, from simple aspects of inflammatory cells to more complex aspects of the principal proinflammatory signaling pathways and regulatory control mechanisms. This is achieved through a combination of conventional lectures and brainstorming discussions.

The third day of this week-long course introduces the students to real inflammatory diseases. Recognized experts in the field share their research experiences within the fields of two complex inflammatory diseases, allowing the students to integrate the mechanistic knowledge gained into practice in real, complex biological systems.

The morning of the fourth day comprises instruction and discussion on the topic of wound healing – rarely included in conventional inflammation courses, but a vital component of the total inflammatory process. Students then have group study time to complete their assignments.

At the beginning of the course, the students are divided into four groups and given assignments regarding either the pathogenesis or the treatment of two important chronic inflammatory diseases. They are given access to relevant, recent review articles on these topics and work in groups throughout the self study time during the week, with the intervention of the tutor if necessary. Within their assignments, they define the major problems, decide through brainstorming the questions which are appropriate to address the problem, collect and collate the appropriate information to answer the questions, and negotiate a common response to the questions. On the final day, each group gives a powerpoint presentation of their consensus findings.

The course uses the expertise of local experts in various fields within inflammation, together with renowned international invited researchers, who share their experience and enthusiasm with the students. The course has run each year for seven years, has been consistently in demand and has received excellent student assessments.

## **5. Mål**

Efter avslutad kurs förväntas studenten kunna:

### *Kunskap och förståelse*

After completing the course the students will be able to:

- Describe the initiators of inflammation
- Differentiate cellular & non-cellular components of an acute inflammatory response
- Identify the main features of chronic inflammation
- Define the main mechanisms which regulate the inflammatory response

### *Färdighet och förmåga*

- Demonstrate the main features of key inflammatory diseases
- Illustrate the principal elements of therapy in inflammatory disease

### *Värderingsförmåga och förhållningssätt*

- critically challenge published data
- assess and re-evaluate established dogma in the field

## **6. Kurslitteratur**

There is no required reading. The students will be provided with appropriate “starter” material for their self-directed, problem-based learning.

## **7. Former för bedömning**

Group discussions during the course and final group presentations.

Student äger rätt till byte av examinator efter att ha underkänts två gånger på samma examination, om det är praktiskt möjligt. En sådan begäran ställs till institutionen och skall vara skriftlig.

## **8. Betyg**

Betygskalan omfattar betygsgraderna Underkänd (U), Godkänd (G).

## **9. Kursvärdering**

Students are evaluated by anonymous questionnaire, the results of which are fed back to the students and used as a template for further improvements.

## **10. Övrigt**

The course will be given in English.



