



UNIVERSITY
OF SKÖVDE



MASTER'S PROGRAMME

BIOMARKERS IN MOLECULAR MEDICINE 120 ECTS

At the University of Skövde, we offer "Biomarkers in Molecular Medicine", a two-year Master's programme in which you will learn how to identify, verify and validate biomarkers in Molecular Medicine by the use of different Systems Biology methods.

- *The programme was developed in collaboration with several different pharmaceutical and biotechnology companies in Sweden.*
- *The University of Skövde offers a friendly classroom environment where the lectures are strongly linked to on-going research in Systems Biology.*
- *The Systems Biology Research Centre at The University of Skövde has been evaluated by international reviewers as an excellent research environment.*

THE FOCUS OF YOUR STUDIES

The programme involves in-depth research oriented studies in the areas of Molecular Biology, Bioinformatics and Systems Biology. Independent laboratory work and computer-based analysis of experimental biological data are prominent parts of the studies. During the first part of the programme you will study advanced courses in Molecular Biology, Molecular Medicine, Biostatistics and Bioinformatics. In the second part of the programme you will continue with advanced courses in Systems Biology, Expression Analysis, Multivariate Analysis, Next Generation Sequencing and Biomarkers – analysis of data. The main focus during this part is analysis of experimental biological data, mainly to identify, verify and validate biomarkers in Molecular Medicine, by the use of different Systems Biology methods.

The programme is concluded with a master's degree project work (45 credits) during the last year. During the project work, you will expand your theoretical and laboratory knowledge and solve a relevant research problem in Systems Biology (with a focus in Biomarkers in Molecular Medicine). The project work is performed individually under the direction of a supervisor qualified in the field.

UPON COMPLETION OF YOUR STUDIES

After completing the programme you can for example work in pharmaceutical companies or at hospitals. You can also continue with PhD studies or other kind of research at governmental and private research laboratories

DEGREE

This two-year master's programme leads to a Degree of Master of Science (120 credits) with a major in Systems Biology.

TESTIMONIAL



Name: Alexander Kokkonen

From: Sweden

There are a few points that I want to highlight, first of all the university has a great atmosphere and I thought it to be very exciting to meet so many international friends from all over the world. The programme itself focuses on both practical as well as theoretical knowledge in the field of systems-biology, where you successively become more and more independent and learn how to collaborate with fellow students. My favorite part of the programme has so far been in approaching large-scale data, working with R, SPSS as well as GenEx. Also noticeable, is that the programme gives the opportunity for us to develop skills in project works, oral presentations and fruitful scientific discussions in the forms of seminars, where you are given objective feed-back in order to further your individual development and involvement in this growing field of science.



Name: Rada Jasser

From: Syria

Biomarkers are of a great help in diagnosis, treatment and extensive investigation of different diseases. The Master's Programme Biomarkers in Molecular Medicine at the University of Skövde is one of the most informative master programmes. (It is one of a kind). It takes you over to the up to date discovered biomarkers and how they were detected going through different experimental methods of detection for each type (category) of biomarkers. The courses give most importance to statistical methods and how they can be decisive in identifying novel potential biomarkers. After one year of studying biomarkers, I believe that this field is very promising and it is a matter of time until most of the diseases can be diagnosed in a very short time allowing precise and fast medical interventions.

ADMISSION REQUIREMENTS

Applicants must have a bachelor's degree (180 credits) in the biological or medical area. The biological area can be defined as e.g. Molecular Biology, Biochemistry, Microbiology or Physiology. The medical area is here defined as Biomedicine but can also include subjects like Pharmacology. A further requirement is proof of skills in English equivalent of studies at upper secondary level in Sweden known as English course 6 / English course B. This is normally demonstrated by means of an internationally recognized test, e.g. IELTS or TOEFL or the equivalent.

HOW TO APPLY

You are welcome to apply directly to our study programmes at www.universityadmissions.se, the national Swedish application service, where you can find all the necessary information regarding programmes, applications and processes. Applications are submitted directly on the web. At www.universityadmissions.se you can also keep track of your application, see that all credentials have been uploaded, etc.

APPLICATION DEADLINE

- Autumn admission round: 15 January

FEES

Students who are citizens of a country within the EU/EEA or Switzerland do not have to pay any application or tuition fees to study in Sweden. Students from outside the EU/EEA area have to pay application and tuition fees for studying in Sweden, according to a decision taken by the Swedish Parliament. The students who are liable to pay for their studies in Sweden have to pay an application fee of 900 SEK (Swedish kronor) for the application to be processed, according to the instructions available on the website www.universityadmissions.se.

The international programmes available at the moment cost 130 000 SEK per academic year (60 ECTS). The tuition fee will be charged by the University of Skövde in advance of each semester (65 000 SEK/semester).

SCHOLARSHIPS

The University of Skövde offers a number of scholarships to students who are attending an international master's programme at the University and who are liable for tuition fees. Find out more information at www.his.se/scholarships.

FURTHER INFORMATION

For complete information please visit our website: www.his.se/Biomarkers-Master

UNIVERSITY OF SKÖVDE IN SOCIAL MEDIA

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