



GÖTEBORGS UNIVERSITET

Target capture for NGS sequencing workshop, 2 hp

Course period: 2017-09-04 – 2017-09-08	Last day for application: 2017-06-01
Course leader / Address for applications: Tobias Hofmann / tobias.hofmann@bioenv.gu.se	
Course description (Advertisement for Ph.D. students): This workshop will cover the methodology currently in use at the department for generating DNA sequence data from multiple loci and individuals. It will cover all steps from design of probes to phasing of alleles. Emphasis will be put on “hands-on” use of software for different assembly, mapping, and phasing steps.	

Responsible department and other participation departments/organisations: Biology and Environmental Sciences
Teachers: Vincent Manzanilla, Tobias Hofmann, Mats Töpel
Examiner: Bengt Oxelman



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Faculty of Science; Department of Biological and Environmental Sciences

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Third cycle education

1. Confirmation

The syllabus was confirmed by the Head of the Department of Biological and Environmental Sciences, Henrik Aronsson, 201x-xx-xx.

Disciplinary domain: Science

Department in charge: Department of Biological and Environmental Sciences

2. Position in the educational system

Elective course; third-cycle education.

3. Entry requirements

Admitted to third cycle education, basic understanding of command-line computing.

4. Course content

This workshop will cover the methodology currently in use at the department for generating DNA sequence data from multiple loci and individuals. It will cover all steps from design of probes to phasing of alleles. Emphasis will be put on “hands-on” use of software for different assembly, mapping, and phasing steps.

5. Outcomes

- Probe design from transcriptomic data or DNA sequences
- Laboratory procedure
- Contig assembly and mapping
- Allele phasing

6. Required reading

- Will be handed before and during the workshop



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7. Assessment

- Demonstration of abilities

8. Grading scale

The grading scale comprises Fail, (U), Pass (G)

9. Course Evaluation

The course evaluation is carried out together with the Ph.D. students at the end of the course, and is followed by an individual, anonymous survey. The results and possible changes in the course will be shared with the students who participated in the evaluation and to those who are beginning the course.

10. Language of instruction

The language of instruction is English.