



GÖTEBORGS UNIVERSITET

## Target capture for NGS sequencing - workshop, 2 hp

Course period: 2016-03-21 – 2016-03-24	Last day for application: 2016-03-14
Course leader / Address for applications: Bengt Oxelman / bengt.oxelman@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 in cooperation with Forbio, Research School in Biosystematics – Norway	
Teachers: Isabel Liberal, Tobias Hofmann, Mats Töpel, Patrik Cangren	
Examiner: Bengt Oxelman	



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Faculty of Science; Department of Biological and Environmental Sciences

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*Third cycle education*

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### **1. Confirmation**

The syllabus was confirmed by the Head of the Department of Biological and Environmental Sciences, Lars Förlin, 2016-01-15.

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.

### **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 out 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.