

BIO-676

**Practical - Fellay Lab**

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<b>Cursus</b>	<b>Sem.</b>	<b>Type</b>
Molecular Life Sciences		Obl.

Language of teaching	English
Credits	1
Session	
Exam	Project report
Workload	30h
<b>Hours</b>	<b>24</b>
Courses	6
TP	18
<b>Number of positions</b>	<b>3</b>

**Frequency**

Every year

**Remark**

3-day Block course, every year in January. To register, contact EDMS Administration

**Summary**

Exploration of human genetic variation in large-scale sequencing data.

**Content**

Students will be asked to access large-scale data from sequenced human exomes, to focus on one gene (or pathway) of interest, and to catalog and describe all variants present in the study population. The potential associations between the identified variants and clinically relevant phenotypes will also be explored.

**Note**

Note that while the course is open to all first year EPFL doctoral students, priority will be given to EDMS students, given that they are mandated to take three of EDMS practical modules. Note also that doctoral students from the Fellay laboratory cannot take this course. Access is limited to 2 students.

**Keywords**

Human genomics, bioinformatics.

**Learning Prerequisites****Recommended courses**

Knowledge in genetics and bioinformatics.

**Assessment methods**

Project report.

**Resources****Websites**

- <http://fellay-lab.epfl.ch/>