



**Course advertisement**

**Bioinformatics and Next Generation Sequencing**

**Within this course you will learn important bioinformatic concepts and tools and in particular focus on the analysis of Next Generation Sequencing datasets with many examples and exercises.**

The course is open to all PhD students. Students of the PhD Program Biomedicine (BioMed) have priority.

Date	Topic	Time
Mon 24 <sup>th</sup> Oct 2022	Introduction to R	09:30-17:00 GMT
Mon 31 <sup>th</sup> Oct 2022	Introduction to Unix	09:30-13:00 GMT
Mon 31 <sup>th</sup> Oct 2022	Sequencing QC	13:30-17:00 GMT
Mon 7 <sup>th</sup> Nov 2022	RNA Seq Data Analysis	09:30-17:00 GMT
Mon 14 <sup>th</sup> Nov 2022	ChIP Seq Data Analysis	09:30-17:00 GMT
Mon 21 <sup>th</sup> Nov 2022	10X single cell RNA Seq Data Analysis	09:30-17:00 GMT
Mon 28 <sup>th</sup> Nov 2022	Extracting Biological Information from Gene Lists	09:30-17:00 GMT

Room	via Zoom, details to follow
Type	Interactive Course with many hands-on exercises
Requirement	Basic bioinformatics knowledge is recommended
Recommendation	PhD students that will work with NGS datasets
Maximum participants	20
Further information	BioMed Coordinating Office ( <a href="mailto:andrea.schmitz-derron@uzh.ch">andrea.schmitz-derron@uzh.ch</a> ) and here <a href="https://www.bioinformatics.babraham.ac.uk/training.html">https://www.bioinformatics.babraham.ac.uk/training.html</a>
Credit points	3 ECTS (exercises within the course)
Registration	By e-mail to <a href="mailto:andrea.schmitz-derron@uzh.ch">andrea.schmitz-derron@uzh.ch</a> until <b>Thursday 1<sup>st</sup> September 2022 including the registration form.</b> If the number of applications exceeds the maximum number of possible participants, priority will be given to BioMed students and those working with NGS datasets.