

Course name: High throughput data analysis with R	Credits: 6 ECTS
Class type: On-line lectures + individual practice	Hours per week:
Type of the exam:	
Prerequisites (if exist): Courses: <ul style="list-style-type: none"> • Biological data analysis with R 	
Course description: <ul style="list-style-type: none"> • Flow cytometry: counting and sorting stained cells • Next-generation sequencing: introduction and genomic applications • Quantitative transcriptomics: qRT-PCR • Advanced transcriptomics: gene expression microarrays • Next-generation sequencing in transcriptomics: RNA-seq experiments • Analysis of DNA-protein interactions: chromatin immunoprecipitation 	
Required reading:	
Recommended reading: Ortutay & Ortutay (2017): Molecular Data Analysis Using R. ISBN: 978-1-119-16502-6. Wiley-Blackwell	
Lecturer (<i>name, position, degree</i>): Balázs Ligeti, assistant professor, PhD	
Additional lecturers , if exist:	