Course name: Introduction to bio-statistics	**Credits**: 5 ECTS
Class type: On-line lectures + individual practice	**Hours per week**:
Type of the exam: Project work	
Prerequisities (if exist): basic biochemistry and molecular biology	
Course description: An application oriented course focusing on how statistical methods can be used to address common problems in the analysis of results from molecular biology experiments. • Comparing simple groups: hypothesis testing • Multiple groups: ANOVA and related concepts • Hypothesis testing in complex experimental settings: Randomized complete block design • Dose and response: regression models • Handling low sample sizes with General Linear Models • Planning optimal sample sizes: how many animal do I need?	
Required reading:	
Recommended reading: Aho Ken A. (2014) Foundational and applied statistics for biologists using R. CRC press	
Lecturer (*name, position, degree*): Sándor Pongor, full professor, DSc	
Additional lecturers, if exist:	