

Certificate of competence

This is to certify that

ILYA POPOV

has successfully completed

"Python and Linux for bioinformatics and biology" a 9 days course composed of the following topics:

- Introduction to Linux: command line, file system, server access
- Bash: input/output, basic commands, parallel computing, pipelines and simple scripts
- Working in Jupyter-Notebook and Colab
- Introduction to Python:
 - Variables, objects, operators, basic data types, f-strings
 - Conditional statements and cycles
 - Collections of objects: lists, dictionaries, tuples, sets
 - Standard Python libraries
 - Working with files, writing functions, multithreading, OOP in Python
- Python Data Science libraries: NumPy, Matplotlib, Pandas, Seaborn, Plotly
- Overview of packages for working with biological data: Biopython, Nglview, ProDy
- Practice with expression data, protein structures and FASTQ data

