Bioinformatics for molecular biologists

Your first step towards bioinformatics

This course is designed to help researchers taking their first steps in bioinformatics, giving individuals experience at working on the command line and manipulating large datasets. This interactive and hands-on course will introduce you to Linux™, databases and Python™ programming using datasets from next generation sequencers.

Explore the open source world with our experts

Over 4 days you will explore the open source world associated to bioinformatics with our experts. You will be introduced with various topics, from the basics of Linux, to a widely used programming language such as Python and the world's most popular open source database MySQL™ (engine behind PayPal™, Twitter™ and LinkedIn™ sites).

Gain confidence when handling large data sets

A well balanced combination of lectures and practical sessions will reinforce new learning progressively building momentum towards a practical project where the newly acquired knowledge will be applied. New powerful options will be introduced to give you more confidence when handling large datasets. Ultimately, you will discover what's beyond rigid user interfaces and apply your learning with real data.

- **Manage your own database (create your knowledge base).** Free yourself from spreadsheets!

- **Personalise your analysis beyond options.** Available in Torrent Browser or Ion Reporter™ software

- **Parse your VCF (extract information from flat files).** Compare different samples and find the most common variants

Increase your productivity immediately

Following this course; you will receive a USB memory stick with all the scripts and examples that were used during the session, allowing you to apply what you learned on your own datasets.

Course costs

A course offered at our state-of-the-art Customer Experience Centres. Four days of intensive training: 9, 000zł (group discounts available, if two people from the same lab register save 2,000zł; if three people from the same lab register pay only 21,000zł).

Agenda	
Mon	Introduction to Linux (shell, main commands, editing files, remote working)
Tues	MySQL (relational databases, insert tables)
Wed	Python (introduction to programming, variables, first script in Python)
Thurs	Python & MySQL integration (creating a knowledge base from NGS data)
Fri	Practical Project (parsing vcf files to populate database, file manipulation)

Date: 16th November - 20th November

Contact: learn-europe@thermofisher.com

For more information, please visit **https://learn.thermofisher.com/europe/biofxformb**

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