

Introduction to Molecular Systems Biotechnology

Introduction to Computational Biology and Bioinformatics (iCB2)

<http://biofold.org/courses/icb2.html>

Fall 2015
November 9-13, 2015
9:30 AM – 12:30 PM

Module Teacher

Emidio Capriotti

Institute for Mathematical Modeling of Biological Systems
Building 26.13 (Level 00, Room 66)
Heinrich Heine University Düsseldorf
Universitätsstr. 1 40225
Düsseldorf, Germany
e-mail: emidio.capriotti@hhu.de

Course Program

09/11	Introduction to Linux	Room 26.13.U1.23
10/11	Data Science with Python	Room 26.13.U1.23
11/11	Basic Algorithms in Bioinformatics	Room 26.13.U1.23
12/11	Biological Data Sources and File Formats	Room 26.13.U1.23
13/11	Sequence Alignment	Room 26.13.U1.23

Suggested Books

- Bioinformatics Data Skills: Reproducible and Robust Research with Open Source Tools by Vince Buffalo. O'Reilly.
- Data Science from Scratch by Joel Grus, O'Reilly.
- Statistical Models: Theory And Practice by David A. Freedman, Cambridge.