CB2-101 – Bioinformatics Computing GBSC 703-01A (3 Credits)*

Computational Biology and Bioinformatics (CB2) Course at UAB http://www.uab.edu/cb2
http://cmb.path.uab.edu/training/cb2-101.html

Fall 2016 Nov 3- 18, 2016 9:00 a.m. – 1:00 p.m. (Location: Volker Hall VHG073)

Course Director:

Malay Basu, PhD West Pavilion, Room P220 934-5251 malay@uab.edu

Course Program

Week 1: Nov 3-4
Introduction to Linux
Linux Commands and Scripting

Week 2: Nov 7-11

Unix toolchains and programming languages Introduction to R and Bioinformatics data parsing Basic statistics in R Bioinformatics using R Reproducible research in R

Week 3: Nov 14-18

Homology search BLAST and HAMMR Advanced topic: Molecular evolution Large-scale data analysis/introduction of NGS Basic pipelines in NGS Mutational processes and VCF Introduction to RNASeq

Reference:

Bioinformatics Data Skills (2015) Vince Buffalo

Registration:

The course requires registration through online form: https://goo.gl/forms/6hsoAXy93qd1Tebk1

- * If you're a graduate student and willing to get credit for this course please contact the course director directly.
- * Earlier version of the course was a prerequisite for our advanced bioinformatics course, CB2-201. Because of the restructuring and incorporation of many materials from this course into the current one, there will be no CB2-201 offered next-year.