Introduction to Linux & Biocluster

HPCBio Workshop materials are licensed under a Creative Commons Attribution-ShareAlike 4.0 International License.

March 16 - Introduction to Linux

**Date:** March 16th, 2015, 9 am – 1 pm  
**Instructors:** Jessica Kirkpatrick, Jenny Drnevich (HPCBio)  
**Location:** 607 IGB

**Class materials**
- Presentation
- Linux cheat sheet
- Getting on a UNIX-based terminal
- Linux commands appendix
- Video of class (Sound is not the best, see last year's video for better quality)

**Linux resources**
- Beginner self-guided tutorials for extra practice
  - Tutorial from the book *UNIX and Perl to the RESCUE!*
    - Parts 1 and 2 cover UNIX
    - [http://korflab.ucdavis.edu/Unix_and_Perl/current.html#part1](http://korflab.ucdavis.edu/Unix_and_Perl/current.html#part1)
  - SIB tutorial
    - If it asks you to log in, just log in as a "guest user"
    - Click on "UNIX elearning module" at the bottom to get started
  - University of Surrey tutorial
    - [http://www.ee.surrey.ac.uk/Teaching/Unix/](http://www.ee.surrey.ac.uk/Teaching/Unix/)
  - Ryan's Tutorials
    - [http://ryanstutorials.net/linuxtutorial/](http://ryanstutorials.net/linuxtutorial/)
  - Coursera course on Command Line Tools for Genomic Data Science
    - [https://www.coursera.org/learn/genomic-tools/](https://www.coursera.org/learn/genomic-tools/)
    - registration ends March 19th

- Books
  - *UNIX and Perl to the RESCUE!* by Keith Bradnam & Ian Knorf
  - *Developing Bioinformatics Computer Skills* by Cynthia Gibas & Per Jambeck
  - *Linux Pocket Guide* by Danial J. Barrett

March 18 - Introduction to Biocluster

**Date:** March 18th, 2015, 9 am – 1 pm  
**Instructors:** David Slater (CNRG), Jenny Drnevich, Jessica Kirkpatrick (HPCBio)  
**Location:** 607 IGB

**Class materials**
- Beginning slide
- Presentation
- Ending slides
- Biocluster help page
- How to submit a cluster job
- qsub script generator
- Video of class
Software

- **PuTTY**: Allows remote access from a Windows computer to a Linux based terminal.
  - [http://www.putty.org/](http://www.putty.org/)
- Mac already has a UNIX-based terminal pre-installed. You can find it in Applications -> Utilities -> Terminal