Introduction to Linux & High Performance Computing on Biocluster2

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

**Day 1 - Intro to Linux**

- **Date:** March 13th, 2018, 9 am – 12:30pm
- **Instructors:** Jessica Holmes, Jenny Drnevich, Gloria Rendon (HPCBio)
- **Location:** IGB 607 (basement of gatehouse)

**WORKSHOP MATERIALS**

- **Introduction to Linux**
  - Slides: Linux-Mar2018.pptx
- **Additional Materials**
  - Linux cheat sheet: LinuxCheatSheet-v2.xlsx
  - Exercise 3: exercise3-blank.pptx
  - Answers: exercise3-answers.pptx
  - Appendix: Linux_appendix.docx
- **Video Recording**
  - Here

Self-guided tutorials for Linux beginners

- 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#part2
- 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
- Command line bootcamp
  - Integrated web page with instructions, terminal and file browser - no logging in needed!
  - http://rik.smith-unna.com/command_line_bootcamp/

**Linux Terminal Software**

- Windows users:
  - MobaXterm: http://mobaxterm.mobatek.net/
  - PuTTY: http://www.putty.org/
- Macintosh users:

**Day 2 - Intro to Biocluster2**

- **Date:** March 16th, 2018, 9 am – 12:30pm
- **Instructors:** David Slater (CNRG), Jessica Holmes (HPCBio), Jenny Holmes (HPCBio)
- **Location:** IGB 607 (basement of gatehouse)

**WORKSHOP MATERIALS**

- **Configuring MobaXTerm**
- **Introduction to Biocluster2**
  - Slides: Spring 2018 Biocluster Workshop.pptx
- (Optional) FASTQC overview
  - Slides: FASTQC-Mar2018.pptx
- **Video Recording**
  - Here

**Biocluster2 Resources**

- Biocluster2 help page
- Campus cluster help page
- How to obtain a Biocluster2 account
- SLURM job script generator
• You can use the pre-installed program "Terminal" by going to Applications -> Utilities -> Terminal.