

Workshop on Comparative Genomics, North America 2011

Fort Collins, Colorado, USA

10 - 22 July 2011

Application Deadline: 15 May is the preferred application deadline, after which time people will be admitted to the course following review of applications by the admissions committee. However, later applications will certainly be accepted.

<http://www.molecularevolution.org/workshops/WCG>

Scott A. Handley, Michael Cummings and Kendra Nightingale, Co-Directors

The Workshop on Comparative Genomics consists of a series of lectures, demonstrations and computer laboratories that cover various aspects of comparative genomics focusing on next-generation sequencing data. Faculty are chosen exclusively for their effectiveness in teaching theory and practice in comparative genomics. Included among the faculty are developers and other experts in the use of computer programs and packages such as ABySS, bowtie, velvet, bioperl, Scripture, GMOD, Gbrowse, Galaxy, PyCogent, and QIIME. The course is designed for established investigators, postdoctoral scholars, and advanced graduate students. Scientists with strong interests in the uses of short-read sequence data, analytical methods, comparative structure of genomes, metagenomics, genome visualization tools and related areas are encouraged to apply for admission. Lectures and computer laboratories total ~90 hours of scheduled instruction. Admission is limited. No programming experience is required, however, detailed instruction suitable for the novice will be provided during the early days of the Workshop on the use of the command line, editing tools and basic scripting.

Topics to be covered include:

- Linux command line usage and scripting for next-generation sequence analysis
- Sequencing technologies and study design
- Sequence data quality control
- Assembly and alignment
- Functional annotation
- Transcriptomics
- Metagenomic analysis
- Evolutionary genomics
- Population genomics

2011 Fee: 1800 USD does not include other meals or housing. Special discounted housing and meals are available on the campus of Colorado State University.

For more information and online application see the Workshop web site -

<http://www.molecularevolution.org/workshops/WCG>

and for housing and payment information see -

<https://regstg.com/Registration/RegForm.aspx?rid=d41e4a6a-bf9f-40f0-8b0a-74fba75088b4&action=add>

The Workshop on Molecular Evolution is also being offered immediately after the Workshop on Comparative Genomics. For more information on this Workshop please use the following link.

<http://www.molecularevolution.org/workshops/WME>