UCDAVIS Bioinformatics Core

Quick Introduction and Introduction to the UC Davis Bioinformatics Core

UCDAVIS Bioinformatics Core

The **mission** of the Bioinformatics Core facility is to facilitate outstanding omics- scale research through these activities:

Data Analysis

The Bioinformatics Core promotes experimental design, advanced computation and informatics analysis of ‘omics’ scale datasets that drives research forward.

Research Computing

Maintain and make available high-performance computing hardware and software necessary for todays data-intensive bioinformatic analyses.

Training

The Core helps to educate the next generation of bioinformaticians through highly acclaimed training workshops, seminars and through direct participation in research activities.

UCDAVIS Bioinformatics Core

UC Davis Bioinformatics Core in the Genome Center

Core Facility Manager
Dr. Matthew Settles

Faculty Advisor
Dr. Ian Korf

Data Analysis Group

Genomics Bioinformatics

Dr. Joseph Fass
Dr. Monica Britton
Nikhil Joshi

Proteomics Bioinformatics

Metabolomics Bioinformatics

Dr. Jessie Li

Biostatistics

Dr. Blythe Durbin-Johnson

Undergraduate Assistants

Research Computing Group

System Administration

Michael Casper Lewis
Richard Feltstykket

Database/Web Programming

Adam Schaal

Undergraduate Assistant

UCDAVIS Bioinformatics Core

Contacts

- Website: http://bioinformatics.ucdavis.edu/
- Computing Issues, including but not limited to

  User account questions, equipment failure/malfunction, software install, software failures (not related to use)

  helpdesk@genomecenter.ucdavis.edu
- Bioinformatics related questions, including but not limited to

  bioinformatic methods questions, software use, data questions

  Bioinformatics.core@ucdavis.edu

- Mailing lists: http://bioinformatics.ucdavis.edu/contact-us/

Goals

- End to End understanding of variant analysis
- Experimental design
  - Cost estimation
  - Technologies
  - workflow
- To work through a complete experiment, starting from raw data to completion, including making a few figures.
- Additional topics are discussed (GWAS, Genome Assembly, etc.) to better understand related topics.
- Goal is 30-40% lecture/discussion 60-70% hands-on

Workshop Info

- Workshop materials posted on github
  - https://ucdavis-bioinformatics-training.github.io/2017-August-Variant-Analysis-Workshop/
- Course will be conducted on our cluster
  - Workshop reservation
- Schedule is loose, we will try and have short breaks often, lunch is ~12-1pm