

# Genotyping-By-Sequencing (GBS)

May 12-28, 2015 TR 10-11:50 am

Genotyping-by-sequencing (GBS) is a powerful and increasingly popular method for identifying molecular markers. In this short course, we will explore GBS in all aspects, from experimental design to bioinformatic analysis.

We will focus on bioinformatic methods for calling single nucleotide polymorphism (SNP) markers, compiling and filtering results, and then utilizing sets of markers for applications including plant breeding and population genetics.

 Stacks

Class discussions will be an important aspect, so come and learn from the OSU community's collective experience with GBS!

**Basic unix/linux command line familiarity is strongly recommended. If you are lacking experience in this area, please note that an intro-to-command-line course will be offered by the CGRB from April 14<sup>th</sup> to 23<sup>rd</sup>.**



## Workshop topics will include

- GBS applications
- CGRB GBS services
- SNP calling methods
- The TASSEL pipeline
- The Stacks pipeline
- Other pipelines as time allows

**Questions and Signup: Kelly Vining – [kelly.vining@cgrb.oregonstate.edu](mailto:kelly.vining@cgrb.oregonstate.edu)**