

# AGENDA

## JGI Genomic Technologies Workshop

### Tuesday March 26

#### 9:00-12:00 Functional Genomic Technologies & Case Studies

- 9:00-9:10 Chia-Lin Wei: Overview of technology support for user projects
- 9:10-9:30 Chew-Yee Ngan: Functional Genomic sequencing technologies
- 9:30-10:00 Sean McIlwain (BRC users): Differential bacterial sRNA expression during conversion of AFEX corn stover hydrolysate to ethanol
- 10:00-10:20 Abhishek Pratap: Differential Transcriptome analysis: Case studies from *Chalmydomonas*
- 10:20-10:40 Break
- 10:40-11:10 Alex Worden (CSP users): Gaining insight to marine photosynthesis and the plant lineage using omic technologies
- 11:10-11:30 Chee-Hong Wong: A precursory glimpse into Epigenetics
- 11:30-12:00 Wendy Schackwitz: Overview of genome variation analysis and case study from poplar.

#### 12:00-1:00 DNA synthesis working lunch

- 12:00-12:15 Pick up lunch
- 12:15-12:40 Sam Deutsch: Overview of DNA synthesis technology and case study
- 12:40-1:00 Sarah Richardson: Software for DNA synthesis

#### 1:00-3:45 Prokaryotic Genomic Technologies & Case Studies

- 1:00-1:20 Rex Malmstrom: Overview of Single cell genomics experimental setup and analysis pipeline
- 1:20-1:40 Scott Clingenpeel: Single cell genomics case study from *Arabidopsis thaliana* root endophytes
- 1:40-2:00 Break
- 2:00-2:20 Matthew Blow: Overview of DNA base modification sequencing
- 2:20-2:40 Rex Malmstrom: DNA base modification analysis of *Shewanella oneidensis*
- 2:40-3:00 Matthew Blow: Functional Encyclopedia of Bacteria and Archaea
- 3:00-3:30 Zhong Wang: Overview of Metagenomics technologies and case study from Sheep Rumen