All functions will be held at the Walnut Creek Marriott, unless otherwise noted.

**TUESDAY, March 26**

5:00 – 6:00 PM  
Welcome, Opening Keynote Presentation. Session Chair, Eddy Rubin  
*Part Mining for Synthetic Biology*  
Chris Voigt, Massachusetts Institute of Technology

6:00 – 9:00 PM  
Opening Reception and Poster Session

**WEDNESDAY, March 27**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</thead>
<tbody>
<tr>
<td>8:30 AM – 12:00 PM</td>
<td><strong>SESSION I – Metagenomics. Session Chair, Susannah Tringe</strong></td>
</tr>
</tbody>
</table>
| 8:30 AM – 9:00 AM  | Assembly-driven Metagenomics of a Hypersaline Microbial Ecosystem  
Eric Allen, University of California, San Diego |
| 9:00 AM – 9:30 AM  | Succession of Microbial Phylogeny and Function during Plant Litter Decomposition  
Eoin Brodie, LBNL Earth Sciences Division |
| 9:30 AM – 10:00 AM | Strange Tails in Viral Discovery  
Joe DeRisi, University of California, San Francisco |
| 10:00 AM – 10:15 AM | Deep Community Sequencing Using Short Illumina and Multi-Kb Moleculo Reads Provides Insight into Aquifer Sediment Microbial Diversity and Metabolic Potential  
Laura A. Hug, University of California, Berkeley |
| 10:15 AM – 10:45 AM | Break |
Wayne Reeve, Murdoch University |
| 11:15 AM – 11:45 AM | The Isthmus of Panama – A Natural Laboratory for the Genomics of Climate Resilience  
Eldredge Bermingham, Smithsonian Tropical Research Institute |
| 11:45 AM – 12:00 PM | Roles of Genotype-by-Environment Interactions in Shaping the Root-Associated Microbiome of *Populus*  
Christopher W. Schadt, Oak Ridge National Laboratory |
| 12:00 PM – 1:15 PM | Lunch |

<table>
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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>1:15 PM – 5:00 PM</td>
<td><strong>SESSION II – Plants. Session Chair, Dan Rokhsar</strong></td>
</tr>
</tbody>
</table>
| 1:15 PM – 1:45 PM | New Approaches and Technologies to Sequence *de novo* Plant Reference Genomes  
Jeremy Schmutz, HudsonAlpha Institute for Biotechnology |
| 1:45 PM – 2:15 PM | Genetic Regulation of Grass Biomass Accumulation and Biological Conversion Quality  
Sam Hazen, University of Massachusetts |
| 2:15 PM – 2:45 PM | Regulation of Flowering in *Brachypodium distachyon*  
Rick Amasino, University of Wisconsin |
| 2:45 PM – 3:00 PM | Genome Diversity in *Brachypodium distachyon*: Deep Sequencing of Highly Diverse Natural Accessions  
Sean P. Gordon, U.S. Department of Agriculture |
| 3:00 PM – 3:30 PM | Break |
| 3:30 PM – 4:00 PM | Systems Genetics and Genomics of Woody Biomass Production in Eucalyptus, a Global Fibre Crop  
Zander Myburg, University of Pretoria |
| 4:00 PM – 4:30 PM | Uncovering Transcriptional Circuits in *Arabidopsis* by Functional Genomics  
Jose Pruneda-Paz, University of California, San Diego |
| 4:30 PM – 5:00 PM | New Technologies Overview and User Feedback  
Len Penacchio, DOE Joint Genome Institute |
| 5:00 PM – 6:00 PM | Travel to JGI – Bus Service from Marriott |
| 6:00 PM – 9:00 PM | JGI Reception, Poster Session, and Tours |
| 7:00 PM – 9:00 PM | Travel from JGI – Bus Service to Marriott (Last pickup at JGI at 9:00 PM) |
### THURSDAY, March 28

<table>
<thead>
<tr>
<th>Time</th>
<th>Session III – Microbial Genomics. Session Chair, Len Pennacchio</th>
<th>Time</th>
<th>SESSION IV – Synthetic Biology. Session Chair, Jim Bristow</th>
</tr>
</thead>
</table>
| 8:30 AM – 9:00 AM | The Challenges and Opportunities for Extending Plant Genomics to Climate  
David Weston, Oak Ridge National Laboratory | 1:30 PM – 2:00 PM | Genetics and Genomics Fuel the Development of the Energy Crop, *Jatropha curcas*  
Bob Schmidt, SG Biofuels; University of California, San Diego |
| 9:00 AM – 9:30 AM | A Glimpse into the Coding Potential of Microbial Dark Matter  
Tanja Woyke, DOE Joint Genome Institute | 2:00 PM – 2:30 PM | Automated Strain Engineering at Amyris  
Jack Newman, Amyris, Inc. |
| 9:30 AM – 10:00 AM | Single-cell Genomics of Environmental Bacteria  
Paul Blainey, Broad Institute | 2:30 PM – 2:45 PM | Metabolic Engineering of *Clostridium thermocellum* for Biofuel Production from Cellulosic Substrates  
Adam Guss, Oak Ridge National Laboratory |
| 10:00 AM – 10:15 AM | Modulation of Root Microbiome Community Assembly by the Plant Immune Response  
Sarah L. Lebeis, University of North Carolina | 2:45 PM – 3:15 PM | Break |
| 10:15 AM – 10:45 AM | Biodiversity Monitoring Using NGS Approaches on Unusual Substrates  
Tom Gilbert, University of Copenhagen | 3:15 PM – 3:45 PM | Synthetic Metagenomics: Converting Digital Information Back to Biology  
Sam Deutsch, DOE Joint Genome Institute |
| 10:45 AM – 11:15 AM | Network as Discovery Instrument: A Quick-Start Guide  
Greg Bell, DOE ESnet, LBNL Scientific Networking Division | 3:45 PM – 4:00 PM | Improving Biofuel Feedstocks by Modifying Xylan Biosynthesis  
Jane Lau, Joint BioEnergy Institute |
| 11:15 AM – 12:00 PM | Delineating Molecular Interaction Mechanisms in an *in vitro* Microbial-Plant Community  
Peter E. Larsen, Argonne National Laboratory | 4:00 PM – 5:00 PM | Closing Keynote Presentation.  
**TARA OCEANS: A Global Analysis of Oceanic Plankton Ecosystems**  
Eric Karsenti, EMBL Heidelberg |
| 12:00 PM – 1:30 PM | Lunch | 5:00 PM | End of JGI User Meeting |
### Workshops and Satellite Meetings

#### MONDAY, March 25

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 AM – 5:00 PM</td>
<td>Metaproteomics of the Soil</td>
<td>Walnut Creek Marriott Contra Costa Salon II</td>
</tr>
<tr>
<td>12:00 PM – 4:00 PM</td>
<td>KBase Outreach Workshop</td>
<td>Walnut Creek Marriott Contra Costa Salon I</td>
</tr>
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#### TUESDAY, March 26

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<tbody>
<tr>
<td>9:00 AM – 4:00 PM</td>
<td>Genomic Technologies Workshop (formerly “RNA Technologies...”)</td>
<td>Walnut Creek Marriott CA Ballroom E</td>
</tr>
<tr>
<td>9:00 AM – 4:00 PM</td>
<td>Prokaryotic Super Program User Advisory Committee Meeting</td>
<td>Walnut Creek Marriott CA Ballroom F</td>
</tr>
<tr>
<td>1:00 PM – 5:00 PM</td>
<td>BRC Project Management Meeting</td>
<td>Walnut Creek Marriott Sacramento Room</td>
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#### WEDNESDAY, March 27

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<tbody>
<tr>
<td>12:00 PM – 1:30 PM</td>
<td>Rhizosphere Project Meeting</td>
<td>Walnut Creek Marriott San Jose Room</td>
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#### THURSDAY, March 28

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<tbody>
<tr>
<td>12:00 PM – 1:30 PM</td>
<td>Microbial Isolate Project Reviews</td>
<td>Walnut Creek Marriott San Jose Room</td>
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#### FRIDAY, March 29

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 AM – 10:00 AM</td>
<td>JGI Microbial Genomics Program Management Meeting</td>
<td>Walnut Creek Marriott JGI 345 Conf Room</td>
</tr>
<tr>
<td>10:00 AM – 12:00 PM</td>
<td>JGI Metagenomics Program Management Meeting</td>
<td>Walnut Creek Marriott JGI 345 Conf Room</td>
</tr>
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</table>

### Call for Large-Scale Genomics Proposals

**LOI deadline:** April 8, 2013  
**Proposals invited:** April 15  
**Proposals due:** May 27  
**Projects begin:** October 2013  

The DOE JGI’s Community Sequencing Program (CSP) is now accepting letters of intent (LOIs) for large-scale sequence-based genomic science projects that address questions in alternative fuels, global carbon cycling, and biogeochemistry.

**Areas of emphasis:**
- **Plant Flagship Genomes:** [http://1.usa.gov/JGI-Plants](http://1.usa.gov/JGI-Plants)  
  Comparators that provide insight into feedstock evolution and phenotype. Examples include:
  - Gene Atlas & ENCODE-like projects  
  - Large-scale resequencing  
  - De novo sequencing of flagship comparators  
  - Plant microbiomes
- **Functional diversity of microbes**
- **Microbial emission and capture of greenhouse gases in terrestrial systems**
- **DNA synthesis**
- **NEW!** Exploratory collaborations between the DOE JGI and Pacific Northwest National Laboratory's Environmental Molecular Sciences Laboratory

For more information about the Community Sequencing Program, scan the code above or visit: [http://1.usa.gov/JGI-CSP14](http://1.usa.gov/JGI-CSP14)