**2017 JGI Microbial and Plant Systems**

**Modulated by**

**Secondary Metabolites Meeting Conference**

**July 24-26, 2017 -- Walnut Creek Marriott, Walnut Creek, CA**

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

**MONDAY, July 24 - California Ballroom**

***Start Time End Time Subject Session Chair/Speaker***

 **4:00 PM 5:00 PM Opening Keynote Presentation**

 **Speaker: Jo Handelsman, Wisconsin Institute for Discovery,**

 **“Convergence of model systems and the natural world”**

 **5:00 PM 5:30 PM Rapid Fire Talks**

 **Poster session attendees**

 **5:30 PM 9:00 PM Opening Reception and Poster Session**

 **Host: Yasuo Yoshikuni**

**TUESDAY, July 25 – California Ballroom**

***Start Time End Time Subject Session Chair/Speaker***

**9:00 AM 9:10 AM Welcome & Introduction**

Axel Visel

**9:10 AM 9:40 AM JGI Synthetic Biology**

Yasuo Yoshikuni

**9:40 AM 10:10 AM JGI Metabolomics**

Trent Northen

 **10:10 AM 10:30 AM Break**

 **10:30 AM 11:00 AM Caroline Roper, University of California, Riverside**

 **"Plant-associated microbiomes and the effects on disease outcomes"**

 **11:00 AM 11:30 AM Ronnie de Jonge, Utrecht Netherlands**

 **"Understanding the role of the root microbiome and plant health"**

**11:30 AM 12:00 PM Matthew Traxler, University of California, Berkeley**

 **"Specialized metabolism in root nodule communities"**

**12:00 PM 12:15 PM Natalia Damasceno, Center of Molecular Biology and Genetic Engineering**

 **12:15 PM 12:30 PM Katherine Murphy, University of California, Davis**

 **12:30 PM 1:30 PM Working Lunch**

 **1:30 PM 2:00 PM Alisa Huffaker, University of California, San Diego**

 **“Understanding the role of specialized metabolic networks mediating biotic interactions in**

 **maize through integrated multidisciplinary approaches”**

 **2:00 PM 2:30 PM Jie Luo, Huazhong Agriculteral University**

 **"Dissection of metabolic and phenotypic traits in major crops”**

 **2:30 PM 3:00 PM Gary Siuzdak, The Scripps Research Institute**

 **"Cloud-Based Systems Biology guided by Metabolomics"**

**3:00 PM 3:30 PM Break**

 **3:30 PM 3:50 PM Victoria Knight-Connoni, Indigo Agriculture**

 **"Harnessing nature to help farmers sustainably feed the plant"**

 **3:50 PM 4:10 PM Jill Paulik, AgBiome**

 **"Mining the plant microbiome for novel agricultural pest control solutions"**

 **4:10 PM 4:30 PM Johan Kers, Ginkgo Bioworks**

 **“Strategies to design custom microbes for multiple markets using a foundry model”**

 **4:30 PM 4:45 PM Candice Swift, University of California Santa Barbara**

 **4:45 PM 5:00 PM Barry Bochner, Biolog**

 **WEDNESDAY, July 26**

 ***Start Time End Time Subject Session Chair/Speaker***

 **9:00 AM 9:30 AM** **Nancy Keller, University of Wisonsin - Madison**

**“Omics Approaches to Deorphanize Fungal Natural Products"**

 **9:30 AM 10:00 AM** **Sophien Kamoun, The Sainbury Laboratory, UK**

 **“Membrane trafficking at the host-pathogen interface”**

**10:00 AM 10:30 AM** **Gillian Turgeon, Cornell University**

**"Comparative phylogenomics identifies fungal secondary metabolites allied with virulence to**

 **plant hosts "**

 **10:30 AM 11:00 AM** **Break**

 **11:00 AM 11:30 AM** **Huimin Zhao, University of Illinois at Urbana-Champaign**

 **"Discovery and engineering of novel natural products via synthetic biology"**

 **11:30 AM 12:00 PM** **Sarah O’Connor, John Innes Centre, UK**

 **"Harnessing the chemistry and biology of plant metabolism"**

 **12:00 PM 1:00 PM Working Lunch**

 **1:00 PM 1:30 PM** **David Mead, Varigen Biosciences**

 **"Metagenomic and Synthetic Biology Approaches for Natural Product Discovery"**

 **1:30 PM 2:00 PM** **Yi Tang, University of CA, Los Angeles (UCLA)**

 **"Genome Mining for New Herbicide"**

 **2:00 PM 2:30 PM Eriko Takano, The University of Manchester**

 **"Harnessing synthetic biology for the production of fine and specialty chemicals"**

 **2:30 PM 3:00 PM** **Break**

 **3:00 PM 3:30 PM** **Michael Smanski, University of Minnesota**

 **“Redesigning the genetics of secondary metabolism in Streptomyces”**

**3:30 PM 4:00 PM** **Wenjun Zhang, Lawrence Berkeley National Lab**

 **"Discovery of novel signaling secondary metabolites from Clostridium"**

**4:00 PM 5:00 PM** **Closing Keynote Presentation**

 **Speaker: Gerald Tuskan, Oak Ridge National Lab**

 **“Interkingdom signaling: a Populus case study”**

 **5:00 PM *End of Secondary Metabolite Conference***

Note: AM and PM refreshments will be served after the meeting begins, while work is being performed. Attendance is required during these times.