**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 6:00 PM Rapid Fire Talks**

 **Poster session attendees**

 **6:00 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, “Mapping the**

 **colonization of a synthetic microbial community inoculum from sugarcane microbiome in**

 **maize and soybean plants” short talk**

 **12:15 PM 12:30 PM Katherine Murphy, University of California, Davis, “Root-associated microbiome of a**

 **diterpene deficient maize mutant” short talk**

 **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**

 **"Metabolomics activity screening"**

 **3:00 PM 3:15 PM Candice Swift, University of California Santa Barbara, “Deciphering the role of fungal**

 **secondary metabolites within anaerobic microbial communities” short talk**

 **3:15 PM 3:00 PM Heino Heyman, Pacific Northwest National Lab, “Metabolomics guided isolation of significant**

 **biological plant, soil and microbial secondary metabolites” short talk**

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

 **4:00 PM 4:20 PM Victoria Knight-Connoni, Indigo Agriculture**

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

 **4:20 PM 4:40 PM Jill Paulik, AgBiome**

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

 **4:40 PM 5:00 PM Johan Kers, Ginkgo Bioworks**

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

 **5:00 PM 5:20 PM Barry Bochner, Biolog**

 **“Optimizing conditions that induce or repress toxin production using Phenotype”**

 **MicroArrays**”

 **5:20 PM 5:40 PM Marci Surpin, Valent Biosciences**

“**Plant Growth Regulators and Plant Growth-promoting Microbes for Crop Enhancement”**

 **WEDNESDAY, July 26**

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

 **9:00 AM 9:30 AM** **Nancy Keller, University of Wisconsin - 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.