**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.