



2017 JGI User Meeting

TUESDAY EVENING POSTER SESSION

March 21, 2017 – Marriott Hotel, Walnut Creek

	Authors	Abstract Title
1	Aguilar Pontes, Maria Victoria* (v.aguilar@westerdijkinstituut.nl) Wiebenga, Ad; Snel, Berend; de Vries, Ronald P.	From Genome Content to Substrate Conversion: A Case of Orthology Inside the Fungal Kingdom
2	Amos, Kirtley B.* (bkamos3@g.uky.edu); Sanchez Barrios, Andrea; Lundberg, Derek; De Lorenzo, Laura; Seth, DeBolt	Understanding Microbial Influences on Plant Response on a Genome-Wide Scale
3	Anderson, Lisa A.* (laanders@mit.edu); Guay, Lisa M.; Hicks, Michael A.; Young, Eric M. ; Luis R. Sandoval ; Voigt, Christopher A., ; Prather, Kristala L. J.	Assembly, Screening and Functional Characterization of Glucaric Acid Pathway in Model Organisms E. Coli and S. Cerevisiae
4	Ayuso-Fernandez, Ivan* ; Martinez, Angel T. (atmartinez@cib.csic.es); Ruiz-Dueñas, Francisco J.	Lignin Degrading Enzymes from the Jurassic to Date
5	Badis, Yacine* ; Gachon, Claire M. M. (Claire.Gachon@sams.ac.uk); Klochkova, Tatyana A; Strittmatter, Martina; Garvetto, Andrea; Murúa, Pedro; Ostrowski, Martin; Tringe, Susannah G; Prochnik, Simon E.: Sanderson, Craig; Kim, Gwang Hoon	Hidden diversity in the Oomycete Genus Olpidiopsis Is a Global Threat to Red Algal Cultivation
6	Baldrian, Petr* (baldrian@biomed.cas.cz)	Microbes in Forest Soils: Tracing the Activity of Communities and Individual Taxa
7	Beman, Michael J.* (mbeman@ucmerced.edu); Perez Coronel, Elisabet	Microbial Ecology, Biogeochemistry, and Metagenomics of Methane Oxidation and Production in High Altitude Lakes
8	Biswas, Abhishek* (biswasa@ornl.gov); Chai-Crosskey, Juan; Clum, Alicia; Guo, Xuan; Bushnell, Brian; Yao, Qiuming ; Tringe, Susannah G.; Hervey, IV, William J. ; Pan, Chongle	Disco: High Performance Scalable Assembler for Integrated Assembly of Illumina and PacBio Reads (Short Talk)



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9	Blenner, Mark A.* (blenner@clemsun.edu); Rives, Dyllan	Towards Lignin Degrading Enzyme Expression in <i>Yarrowia lipolytica</i>
10	Brocchieri, Luciano* (lucianob@ufl.edu)	Phylogenetic and Functional Diversity
11	Brown, Steven D. (brownsd@ornl.gov); Jensen, Rasmus; Reynoso, Vinicio; Klingeman, Dawn M.; DeTissera, Sashini; Mitchell, Wayne; Huntemann, Marcel; Clum, Alicia; Pillay, Manoj; Palaniappan, Krishnaveni; Varghese, Neha; Mikhailova, Natalia; Stamatis, Dimitrios; Reddy, T.B.K.; Ngan, Chew Yee; Daum, Chris; Shapiro, Nicole; Markowitz, Victor; Ivanova, Natalia; Kyrpides, Nikos; Woyke, Tanja; Jones, David; Simpson, Sean; Kopke, Michael	Sequencing the largest existing collection of historic commercial solventogenic clostridia strains to dissect industrial acetone-butanol-ethanol (ABE) fermentations
12	Bruckbauer, Steven T.* ; Cox, Michael M. (cox@biochem.wisc.edu)	Ionizing Radiation Resistance in Experimentally Evolved <i>Escherichia coli</i> Populations
13	Campbell, Ashley,* (campbell87@llnl.gov) Bhattacharyya, Amrita; Lin, Yang; Tfaily, Malak; Pasa-Tolic, Ljiljana; Chu, Rosalie; Silver, Whendee; Nico, Peter; Pett-Ridge, Jennifer	How Redox Fluctuation Shapes Microbial Community Structure and Mineral-Organic Matter Relationships in a Humid Tropical Forest Soil
14	Campbell, Barbara J.* (bcampb7@clemsun.edu); Gholamian, Jason; Wang, Kai	Bacterial and Archaeal Biogeochemically-Relevant Gene Abundance and Expression Vary Relative to Different Spatial and Environmental Scales in the Delaware Bay
15	Chakraborty, Shreyasee* (Schakraborty@pacificbiosciences.com); Lambert, Christine; Eng, Kevin; Baybayan, Primo; Hatas, Emily	Best Practices for Whole Genome Sequencing Using the Sequel System



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16	Chan, Po Lam* (kathypolam@hotmail.com); Jinhui, Chang; Kwan, Hoi Shan	RNA Interference Protein Kinase Gene in the Fruiting Development of Module Mushroom—Coprinopsis Cinerea
17	Chang, Jinhui* (tjchangjinhui@gmail.com); Kwan, Hoi Shan	eQTR: A Strategy to Identify the Association between RNA-Editing Events and Gene Expression—a Case Study in Coprinopsis cinerea
18	Chenthamara, Komal* (komal.chenthamara@tuwien.ac.at); Cai, Feng; Przylucka, Agnes ; Shen, Qirong; Bayram Akcapinar, Günseli; Druzhinina, Irina	The Origin and Architecture of Trichoderma Hydrophobome
19	Chistoserdova, Ludmila* (milachis@uw.edu); Yu, Zheng; Krause, Sascha M. B.; Beck, David A. C.; Lidstrom, Mary E.	Communal Metabolism of Methane and the Rare Earth Element Switch
20	Clark, Tyson A.* (tclark@pacificbiosciences.com); Hon, Ting; Tseng, Elizabeth	Full-Length cDNA Sequencing on the PacBio Sequel Platform
21	Coleman-Derr, Devin* (colemanderr@berkeley.edu); Naylor, Daniel; DeGraaf, Stephanie; Purdom, Elizabeth	The Effect of Drought and Host Selection on the Grass Root Microbiome
22	Concepcion, Gregory T.* (gconcepcion@pacificbiosciences.com); Chin, Chen-Shan; Peluso, Paul; Sedlazeck, Fritz J.; Nattestad, Maria; Clum, Alicia; Dunn, Christopher; O’Malley, Ronan; Figueroa-Balderas, Rosa; Morales-Cruz, Abraham; Cramer, Grant R.; Delledonne, Massimo; Luo, Chongyuan; Ecker, Joseph R.; Cantu, Dario; Rank, David R.; Schatz, Michael C	Phased Diploid Genome Assembly with Single Molecule Real-Time Sequencing



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23	Connor, Elise R.* (eworchel@utexas.edu); Hawkes, Christine V.	A Mechanistic Understanding of Endophyte Mediated Plant Stress Responses
24	Daly, Rebecca A.* (daly.130@osu.edu); Borton, Mikayla A.; Johnston, Michael D.; Wilkins, Michael J.; Wrighton, Kelly C.	Viral Control of Halanaerobium Populations in Hydraulically Fractured Shales
25	Daly, Rebecca A.* (daly.130@osu.edu); Angle, Jordan C.; Smith, Garrett J.; Solden, Lindsey M.; Narrowe, Adrienne B.; Morin, Tim H.; Borton, Mikayla A.; Hoyt, David W.; Miller, Christopher S.; Bohrer, Gil; Wrighton, Kelly C	Activity of Novel Methanogenic and Methanotrophic Taxa in Freshwater Wetland Surface Soils
26	de Vries, Ronald P.* (r.devries@westerdijkinstituut.nl); Khosravi, Claire; Kowalczyk, Joanna; Purvine, Samuel; Dohnalkova, Alice; Chrisler, William B.; Orr, Galya; Robinson, Errol; Zink, Erika; Wiebenga, Ad; Battaglia, Evy; Benoit, Isabelle; Baker, Scott E.	Visualization and Exo-Proteomics of Plant Biomass Colonization by Aspergillus
27	de Vries, Ronald P.* (r.devries@westerdijkinstituut.nl); Casado Lopez, Sara; Purvine, Samuel; Dohnalkova, Alice; Orr, Galya; Robinson, Errol; Zink, Erika; Baker, Scott E.; Hildén, Kristiina S.; Mäkelä, Miia R.,	Dissecting Intraspecies Diversity in Fungal Wood Decay
28	Des Marais, David L.* (desmarais@fas.harvard.edu); Catalan, Pilar; Contreras-Moreira, Bruno; Edger, Patrick P.; Preston, Jill C.; Woods, Daniel P.; Amasino, Richard M.	Studying the Genetics and Ecophysiology of Perenniality Using the Model Grass Genus Brachypodium



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<p>29</p>	<p>Diamond, Spencer* (sdiamond@berkeley.edu); Andeer, Peter; Li, Zhou; Anantharaman, Karthik; Butterfield, Cristina; Thomas, Brian C.; Tringe, Susannah G.; Northen, Trent; Pan, Chongle; Banfield, Jillian F.</p>	<p>Microbial community proteogenomic analyses indicate extensive depth-dependent CO oxidation and C1 metabolism in soil and increased capacity for N2O reduction with increased rainfall</p>
<p>30</p>	<p>Donaho, John A.*; Reysenbach, Anna-Louise I. (bwar@pdx.edu); Kelley, John F.; Flores, Gilberto E.; Rhoades, Nicholas ; Seewald, Jeffrey S</p>	<p>Functional Diversity of Microbial Communities Associated with Deep-Sea Hydrothermal Deposits</p>
<p>31</p>	<p>Dorn, Kevin M.* (dorn@ksu.edu); Kantarski, Traci; Crain, Jared; Altendorf, Kayla; Zhang, Xiaofei; Anderson, James; Wang, Shuwen; Larson, Steve; Plott, Christopher ; Jenkins, Jerry; Grimwood, Jane; Schmutz, Jeremy; DeHaan, Lee ; Poland, Jesse</p>	<p>The Genome of the Perennial Grain Crop Thinopyrum intermedium Provides Tools for Breeding and Unravels the Evolutionary History of the Genus</p>
<p>32</p>	<p>Doty, Sharon L.* (sldoty@uw.edu); Firrincieli, Andrea; Joubert, Pierre M.; Sher, Andrew W.; Tournay, Robert; Khorasani, Mahsa; Deutschbauer, Adam; Ray, Jayashree; Joseph, Matthew; Scharffenberger, Sam; Frank, Carolyn; Huffaker, Alisa; Mugnozza, Giuseppe; Kim, Soo-Hyung</p>	<p>Functional Analysis of the Microbiome of Populus: Identification, Localization, and Characterization of Key Endophytes</p>
<p>33</p>	<p>Dove, Nicholas C.* (ndove@ucmerced.edu); Hart, Stephen C</p>	<p>Novel, High-Severity Fire Influences on Soil Microbial Communities and Biogeochemical Processes: Opening the “Charcoal” Box</p>



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<p>34</p>	<p>Druzhinina, Irina S.* (irina.druzhinina@tuwien.ac.at); Rahimi, Mohammad Javad; Grujic, Marica; Forte, Ana; Pourmehdi, Shadi; Pretzer, Carina; Kopchinskiy, Alexey; Chenthamara, Komal; Fischer, Michaela; Laciny, Alice; Abu Salim, Kamariah; Lim, Linda; Chin Mei, Chan; Parich, Alexandra; Schuhmacher, Rainer; Zettel, Herbert</p>	<p>Ecophysiology of Fungi from the Habitats of Borneo's 'Exploding Ants'</p>
<p>35</p>	<p>Egerton Warburton, Louise M.* (louise.egerton08@gmail.com); Ross, Jessica</p>	<p>Dynamics of Lignin-Degrader Communities in a Dry Seasonal Tropical Forest</p>
<p>36</p>	<p>Emerson, Joanne B.*; Marcus, Tamara S. (tsm1004@wildcats.unh.edu); Varner, Ruth K.; Parks, Donovan H.; Johnson, Joel E.; Neumann, Rebecca B.; Woodcroft, Ben J.; Singleton, Caitlin M. ; Tollerson, Rodney; Wik, Martin; Owusu-Dommey, Akosua; Binder, Morgan; Freitas, Nancy L.; Crill, Patrick M.; Saleska, Scott R.; Tyson, Gene W.; Rich, Virginia I</p>	<p>Identifying Shifts in Lake Sediment Microbial Communities in Response to Carbon Biogeochemistry in Stordalen Mire, Sweden</p>
<p>37</p>	<p>Espinoza, Josh L.* (jespinoz@jcv.org); Warshan, Denis; Richter, Alex; Kaul, Driшти; Allen, Andrew; Weyman, Phil; Dupont, Chris; Rasmussen, Ulla</p>	<p>Assembly-centric multiomics for investigating cyanobacteria interactions</p>
<p>38</p>	<p>Fergusson, Elizabeth A.*; Stepanauskas, Ramunas X. (rstepanauskas@bigelow.org); Brown, Joseph; Poulton, Nicole J.; Tupper, Ben; Povilaitis, Tadas; Labonté, Jessica M.; Becraft, Eric D.; Brown, Julia M.; Pachiadaki, Maria G.; Jeremian, Richie; Thompson, Brian P.; Mascena, Corianna J.; Bellows, Wendy K.; Petronis, Arturas; Lubys, Arvydas;</p>	<p>Genomics of Individual Cells and Viruses Revamped: Enhanced Gdna Amplification and Direct, High Throughput Matching of Genomic and Physical Properties</p>



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39	Greenwold, Matthew J.* (greenwold@biol.sc.edu); Cunningham, Brady R.; Richardson, Tammi L.; Dudycha, Jeffry L.	Unlocking the Photosynthetic and Genetic Diversity of Cryptophyte Algae Through Whole-Genome Sequencing of a Diverse Assemblage of Species
40	Healey, Adam* ; Schmutz, Jeremy (jschmutz@hudsonalpha.com); Jenkins, Jerry; Mamidi, Sujana; Sreedasyam, Avinash; Barry, Kerrie; Mockler, Todd; Huang, Pu; Brutnell, Tom	Identification and Characterization of the Core and Disposable Genome of <i>Setaria viridis</i> through Gene Presence/Absence Variation
41	Heiner, Cheryl R.* (cheiner@pacificbiosciences.com); Sharon, Itai; Oh, Steve; Hernandez, Alvaro G.; Mizrahi, Itzhak; Hall, Richard	Profiling Complex Population Genomes with Highly Accurate Single Molecule Reads
42	Huang, Pu* (phu@danforthcenter.org); Studer, Anthony J.; Schnable, James C.; Kellogg, Elizabeth A.; Brutnell, Thomas P.	Cross species selection scans identify components of C4 photosynthesis in the grasses
43	Jenkins, Jerry* ; Schmutz, Jeremy (jschmutz@hudsonalpha.org); Grimwood, Jane; Barry, Kerrie; Goodstein, David; Shu, Shengqiang; Daum, Chris	Towards High-Quality de novo Plant Genome Assemblies with PACBIO
44	Joubert, Pierre M.* (pierrj@uw.edu); Deutschbauer, Adam; Doty, Sharon L.	Elucidation of Genes Required for Endophytic N-Fixation and Their Role in Plant Growth Promotion
45	Khadempour, Lily* (khadempour@wisc.edu); Currie, Cameron R.	Community Metagenomics of Bacterial Community in Fungus Gardens of Atta Leaf-Cutter Ants
46	Kingan, Sarah B.* (skingan@pacb.com); Matthews, Ben; Peluso, Paul; Hall, Richard; Vossell, Leslie; Korf, Jonas	A High-Quality Genome Assembly of SMRT Sequences Reveals Long-Range Haplotype Structure in the Diploid Mosquito, <i>Aedes aegypti</i>



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<p>47</p>	<p>Kominek, Jacek Z.* (jkominek@wisc.edu); Doering, Drew T.; Opulente, Dana A.; Shen, Xing-Xing; Zhou, Xiaofan; DeVirgilio, Jeremy; Hulfachor, Amanda B.; Kurtzman, Cletus P.; Rokas, Antonis; Hittinger, Chris T.</p>	<p>Eukaryotic Acquisition of a Bacterial Operon Identified through Comprehensive Comparative Genomics in the Yeast Subphylum</p>
<p>48</p>	<p>Krause, David J.* (dkrause2@wisc.edu); Alexander, William G.; Wrobel, Russell L.; Rovinskiy, Nikolay; Lopes, Mariana; Bukhman, Yury; Peris, David; Kang, Jin; Tarver, Angela; Harmon-Smith, Miranda; Cheng, Jan-Fang; Deutsch, Samuel; Landick, Robert; Piotrowski, Jeff S.; Sato, Trey K.; Gasch, Audrey P.; Hittinger, Chris T.</p>	<p>Improving Cellulosic Ethanol Production via Quantitative Fitness Measurements of Rationally Designed Gene Expression Cassettes</p>
<p>49</p>	<p>Kwan, Hoi Shan S.* (hoishankwan@cuhk.edu.hk); Au, Chun Hang; Wong, Man Chun; Li, Lei; Lee, Yung Yung; Huang, Qianli; Nong, Wenyan; Cheung, Man Kit; Chang, Jinhui; Cheng, Xuanjin; Xiao, Yang</p>	<p>Evolutionary Biology of Mushrooms: Genomics and Transcriptomics</p>
<p>50</p>	<p>La Reau, Alex J.* (alareau@wisc.edu); Meier-Kolthoff, Jan P.; Suen, Garret</p>	<p>Sequence-Based Analysis of the Genus Ruminococcus Resolves Its Phylogeny and Reveals Strong Host Association</p>
<p>51</p>	<p>Lambert, Christine C.* (clambert@pacb.com); Harting, John; Baybayan, Primo</p>	<p>Multiplexing Strategies for Microbial Whole Genome Sequencing Using the Sequel System</p>
<p>52</p>	<p>Larsen, Peter E.* (plarsen@anl.gov); Shinde, Shalaka; Cumming, Jonathan; Zerbs, Sarah; Korajczyk, Peter; Noirot, Philippe</p>	<p>Multi-Omics Analysis of an Ectomycorrhizal Interface</p>
<p>53</p>	<p>Lau, Yuet Ting* (1155032273@link.cuhk.edu.hk); Kwan, Hoi Shan</p>	<p>Identification of microRNA-like RNAs in Coprinopsis cinerea</p>



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54	Lee, Kevin* ; Klassen, Jonathan L. (jonathan.klassen@uconn.edu); Fox, Evan; Puckett, Sara; Balunas, Marcy J.	Tracking Interspecific Interactions in Symbiotic Fungus Gardens Raised by the Ant <i>Trachymyrmex septentrionalis</i>
55	Ievdokymenko, Kateryna* (ievdokymenko@gmail.com); Ho, Joe C.H.; Hallam, Steven J.	Engineering whole cell biocatalysts for consolidated bioprocessing
56	Lewis, Jared* (jaredlewis@uchicago.edu)	Identifying and Engineering Enzymes for Selective Catalysis
57	Lin, Yu-Ju (Lulu)* (superolulu@gmail.com); M., Anandharaj; Lu, Mei-Yeh; Huang, Chieh-Chen; Chang, Jui-Jen ; Li, Wen-Hsiung	An Enzyme Cocktail with a Cellulose Booster
58	Lopez-Fernandez, Margarita* (margarita.lopezfernandez@lnu.se); Simone, Domenico; Broman, Elias; Wu, Xiaofen; Bertilsson, Stefan; Dopson, Mark	Identification of Uncultured and Candidate Lineages as Viable Microorganisms in the Deep Terrestrial Biosphere
59	Malueg, Cera Danielle* (cdmalueg@wisc.edu); Petersen, Mike; Martinell, Brian; Miyamoto, Amy; Harnish, Rob; Mahoy, Jill; Lor, Vai; Spalding, Edgar; Miller, Nathan; Kaeppler, Heidi; Kaeppler, Shawn	Wisconsin Crop Innovation Center: A New Public Resource for Plant Genome Research
60	Mazaheri, Mona M.* (mmazaheri@wisc.edu); Burdo, Brett ; Heckwolf, Marlies; Vaillancourt, Brienne; Gage, Joseph; Buell, Robin C.; de Leon, Natalia; Kaeppler, Shawn	Zmm22 Gene in Maize Has Pleiotropic Effects on Traits Important for the Production of Food, Feed, and Fuel
61	Mei, Ran* (ranmei2@illinois.edu); Nobu, Masaru; Narihiro, Takashi; Kuroda, Kyohei; Sierra, Julian Muñoz; Wu, Zhuoying; Ye, Lin; Lee, Patrick; Lee, Po-Heng; van Lier, Jules; McNerney, Michael; Kamagata, Yoichi; Wen-Tso Liu	Operation-Driven Heterogeneity and Overlooked Feed-Associated Populations in Anaerobic Digester Microbiome



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62	Michener, Joshua K.* (michenerjk@ornl.gov); Clarkson, Sonya M.; Kridelbaugh, Donna; Elkins, James G.; Guss, Adam M.	Combining Sequencing, Synthesis, and Evolution to Discover and Optimize Pathways for Lignin Bioconversion
63	Morrison, Elise S.* (emorrison@ufl.edu); Bianchi, Thomas; Ward, Nicholas; Liu, Yina; Arellano, Ana; Osborne, Todd; Ogram, Andrew	The Role of Priming Effects on the Conversion of Blue Carbon to CO in the Coastal Zone
64	Mueller, Ulrich G.* (umueller@austin.utexas.edu); Kardish, Melissa R.; Smith, Chad C.; Juenger, Thomas E.; Des Marais, David L.; Tringe, Susannah G.	Artificial Microbiome-Selection to Engineer Microbiomes that Confer Salt-Tolerance to Plants
65	Narrowe, Adrienne B.* (adrienne.narrowe@ucdenver.edu); Angle, Jordan C.; Daly, Rebecca A.; Stefanik, Kay C.; Wrighton, Kelly, C.; Miller, Christopher S.	Targeted Exploration of Archaeal Genomic, Phylogenetic, and Spatial Diversity in Freshwater Wetland Soils
66	Naylor, Daniel T.* ; Coleman-Derr, Devin (colemanderr@gmail.com); DeGraaf, Stephanie; Purdom, Elizabeth	The Effect of Drought and Host Genotype on the Grass Root Microbiome
67	Necula, Simona* (sfnecula@lbl.gov); Smirnova, Tatyana; Beecroft, Chris; Foster, Bryce; Allen, Ed; Wilson, Steven; Taylor, Kristen; Shahab, Atif	Informatics at JGI
68	Neumann, Anthony P.* (apneumann2@wisc.edu); Suen, Garret	Elucidating the Ecology of Fibrobacter spp. in the Herbivore Gut Using Comparative Genomics



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69	Norton, Jeanette M.* (jeanette.norton@usu.edu); Ouyang, Yang; Habtessellasse, Mussie Y.; Shapiro, Nicole	Agricultural Nitrogen Management Affects Functional Genes and Organisms in Nitrogen Cycle Processes
70	Nucio, Erin* (nuccio1@llnl.gov); Karaoz, Ulas; Brodie, Eoin; Zhou, Jizhong; Tringe, Susannah; Malmstrom, Rex; Woyke, Tanja; Firestone, Mary; Pett-Ridge, Jennifer	Roots stimulate expression of decomposition transcripts in the soil microbiome
71	Paver, Sara F.* (sara.paver@gmail.com); Muratore, Daniel J.; Newton, Ryan J.; Coleman, Maureen	Re-Evaluating the Salty Divide: A Meta-Analysis of 16S rRNA Gene Sequences from Marine and Freshwater Systems
72	Peng, Xuefeng (Nick)* (xpeng@engineering.ucsb.edu); Gilmore, Sean P.; Henske, John K.; Swift, Candice L.; Theodorou, Michael K.; Valentine, David L.; O'Malley, Michelle A.	Understanding the Genomic Basis of Syntrophic Relationships between Rumen Anaerobes
73	Peredo, Elena L.* (elperedo@mbl.edu); Cardon, Zoe G.	Protecting Photosynthesis During Desiccation: Do the Genomes of Desert Derived and Aquatic Scenedesmus Species Hold the Key to Understanding Extreme Desiccation Tolerance among Green Algae?
74	Phillips, Jeremy* (jlphillips@lbl.gov); Carlson, Joseph W.; Goodstein, David M.; Rokhsar, Daniel S.	Gene Family Construction and Analysis in Phytosome
75	Pingault, Lise M.* (lise.pingault@ou.edu); Qiao, Zhenzhen; Ren, Yuqi; Libault, Marc	Use of a Single Cell Type Model, the Root Hair Cell, to Advance Our Understanding of the Soybean and Sorghum Transcriptomic and Epigenomic Responses to Various Environmental Stresses



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76	Prochnik, Simon E.* ; Brawley, Susan H. (brawley@maine.edu); Schmutz, Jeremy; Jenkins, Jerry; Barry, Kerrie; Lindquist, Erika; Rokhsar, Daniel; Blouin, Nicolas A; Bhattacharya, Debashish; Grossman, Arthur R.; Stiller, John E.	The Nuclear Genome of <i>Porphyra umbilicalis</i> (Bangioophyceae, Rhodophyta), a Commercially Harvested Representative of the Ancient Bangiophytes
77	Props, Ruben* (Ruben.Props@UGent.be); Schmidt, Marian; Heyse, Jasmine; Vanderploeg, Henry; Boon, Nico; Denef, Vincent	Invasive Dreissenid Mussels Induce Shifts in Bacterioplankton Diversity through Selective Feeding on High Nucleic Acid Bacteria
78	Rodriguez, William* ; Alteio, Lauren, V. (lalteio@umass.edu); Billings, Andrew; van Diepen, Linda; DeAngelis, Kristen; Frey, Serita; Melillo, Jerry; Blanchard, Jeffrey	Community RNA Reveals Changes in Soil Biodiversity and Ecosystem Function in a Long-Term Soil Warming Chronosequence (Short Talk)
79	Rojas, Alejandro J.* (jar115@duke.edu); Looney, Brian; Liao, Sunny; Chen, Jay; Labbé, Jessy; Vilgalys, Rytas	Plant-Microbe Interfaces: Characterizing the Diversity and Function of the Ectomycorrhizome of <i>Populus trichocarpa</i>
80	Sanchez Barrios, Andrea M.* (asanchez-barrios@uky.edu); Lundberg, Derek ³ ; Shearin, Tom ¹ ; De Lorenzo, Laura ² ; Nair, Meera ¹ ; Debolt, Seth	Driving Change in the Bacterial Microbiome Using Growth Promoting Inoculums in <i>Nicotiana benthamiana</i> Plants
81	Song, Zewei* (songgewei@outlook.com); Yoshikuni, Yasuo; Smanski, Mike; Heinsch, Stephen; Pennacchio, Christa; Schlatter, Dan; Vaz-Jauri, Patricia; Kinkel, Linda	Transcriptomic interactions in sympatric community of disease suppressive soil
82	Sjogaard, Kamilla S.* (kamillasjogaard@biology.sdu.dk); Forth, Michael; Schramm, Andreas; Woyke, Tanja; Treusch, Alexander H.	Metagenomic study of Microbial Community in Seasonal Stratified Lakes
83	Sprecher, Brittany N.* (brittany.sprecher@uconn.edu); Lin, Senjie; Prochnik, Simon E.; Brawley, Susan H.	Meiosis in <i>Porphyra umbilicalis</i>



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84	<p>Tarn, Jonathan*; Tarn, Ann H. (cupoflifenuoodles@gmail.com); Valentine, David L.</p>	<p>Characterizing Novel Archaeal Lineages in Salton Sea Sediments</p>
85	<p>Tolar, Bradley B.* (btolar1@stanford.edu); Francis, Christopher</p>	<p>Response of a Low-Salinity Ammonia-Oxidizing Thaumarchaeote to Shifts in Environmental Conditions</p>
86	<p>Tolar, Bradley B.* (btolar1@stanford.edu); Reji, Linta; Smith, Jason M.; Chavez, Francisco P.; Francis, Christopher</p>	<p>Combining Molecular, Genomic, and Isotopic Techniques to Examine the Diversity and Activity of Marine Thaumarchaeota in Monterey Bay</p>
87	<p>Tsuji, Jackson M.* (jackson.tsuji@uwaterloo.ca); Schiff, Sherry L.; Wu, Lingling; Venkiteswaran, Jason J.; Molot, Lewis A.; Elgood, Richard J.; Paterson, Michael J.; Neufeld, Josh D.</p>	<p>Exploring the Robustness and Functional Potential of Boreal Shield Lake Archaeal Ocean Analogues</p>
88	<p>Voriskova, Jana* (jvoriskova@lbl.gov); McCreary, Julia; Hurst Williams, Kenneth; Tas, Neslihan</p>	<p>Seasonal variation of benthic bacterial communities in a mountainous river</p>
89	<p>Venturi, Vittorio* (venturi@icgeb.org); Bertani, Iris; Moronta Barrios, Felix; Caballo Ponce, Eloy; Ramos, Cayo</p>	<p>Interspecies Communities and Signaling in Plant Associated Bacteria</p>
90	<p>Wang, Yuan* (ywang@noble.org); Nuccio, Erin; Barbour, Josh; Escalas, Arthur; Bates, Colin; Hale, Lauren; Ding, Na; Estera, Katerina; Baker, Nameer; Navarro, Javier Ceja; Arellano, Abelardo; Zhalnina, Kateryna; Brodie, Eoin; Northen, Trent; Scheible, Wolf; Udvardi, Michael; Pett-Ridge, Jennifer; Saha, Malay; Zhou, Jizhong; Fireston, Mary; Craven, Kelly</p>	<p>Following rhizosphere microbial communities during switchgrass establishment on marginal soils</p>



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91	Whitman, William B.* (whitman@uga.edu); Woyke, Tanja; Zhou, Y.-G.; Klenk, Hans-Peter; Kyrpides, Nikos	Genomic Encyclopedia of Bacterial and Archaeal Type Strains, Phase III and IV: The Genomes and Pangenomes of Soil and Plant-Associated and Newly Described Type Strains
92	Wing, Rod A. (rwing@email.arizona.edu); Kudrna, Dave; Talag, Jayson; Lee, Seunghee; Rajasekar, Shawn; Zhang, Jiawei	ETOP: Resources and protocols for generating high-quality genome assemblies-II
93	Yao, Qiuming* (yaoq@ornl.gov); Li, Zhou; Yang, Song; Wright, Joseph S.; Guo, Xuan; Biswas, Abhishek; Tringe, Susannah G.; Hazen, Terry; Turner, Benjamin L.; Mayes, Melanie; Pan, Chongle	Charactering Microbe Response to P Availability in Panama Soils by Long Term Fertilization
94	Yuet Ting, Lau* ; Lau, Amy (1155032273@link.cuhk.edu.hk); Kwan, Hoi Shan	Validation and Characterization of Development-Related microRNA-like RNAs in the Mushroom-Forming Fungus Coprinopsis cinerea
95	Zhong, Yiyi* (yiyi11zhong@gmail.com); Nong, Wenyan; Xing, Lei; Lu, Xi; Kwan, Hoi Shan	Comparative Transcriptomic Study towards Two Aspergillus oryzae Strains
96	Zhou, Ran* (razhou@mix.wvu.edu); Carlson, Craig H.; Rodgers-Melnick, Eli; Schmutz, Jeremy; Jenkins, Jerry; Tuskan, Gerald A.; Smart, Lawrence B.; DiFazio, Stephen	A Tale of Transition of Sex Determination from XY to ZW in Salix purpurea