

Scientific Program

Sunday August 9th

2:00-6:00 Arrival and Registration (Microbial Sciences Building [MSB] – 1550 Linden Dr.)
6:00-8:30 Meeting Welcome Party; Guided MSB Tours

Monday August 10th

8:00-8:30	Congress Opening Welcome by ISS President, Douglas Zook and 2009 ISS Organizing Committee Chair, Heidi Goodrich-Blair Rm. 1220 Ebling Symposium Center	
	THEME 1: EVOLUTION Rm. 1220 Ebling, MSB	THEME 2: METABOLIC SYMBIOSIS Rm. 1520, MSB
8:30-8:45	SESSION OVERVIEW BY CHAIR	SESSION OVERVIEW BY CHAIR
	1A: Stability, Conflict and Cooperation Chair: Cameron Currie Associate Professor - University of Wisconsin-Madison - USA	2A: Monitoring Metabolic Flux and Potential Chair: Michael Udvardi Professor - Noble Foundation - USA
8:45-9:45	Invited Speakers	
	Kevin Foster Bauer Fellow - Harvard University - USA - Social evolution in microbes -	Andreas Brune Professor - Max Planck Institute for Terrestrial Microbiology - Germany - Termite guts - world's smallest bioreactors -
	Angela Douglas Professor - Cornell University - USA - Bound to cooperate: mutual dependence and conflict resolution in the pea aphid- <i>Buchnera</i> symbiosis -	Victoria Orphan Assistant Professor - CalTech - USA - Characterizing uncultured syntrophic microbial associations using stable isotopes and metagenomics -
9:45-10:15	Break	
10:15-11:15	Michael Poulsen Research Associate - University of Wisconsin-Madison - USA - Conflict and Cooperation in Fungus-Growing Ant-Microbe Symbioses -	Dieter Strack Professor - Leibniz Institute of Plant Biochemistry - Germany - Metabolism in mycorrhizal roots of <i>Medicago truncatula</i> -
	Dale Clayton Professor - University of Utah - USA - Host defense reinforces host-parasite co-speciation -	Michael Udvardi Professor - Noble Foundation - USA - Metabolism in the legume rhizobium symbiosis -
11:15-12:15	Selected Abstract Speakers	
	Debra Brock Ph.D. Student - Rice University - USA - Farmers come in many shapes and sizes: A new microbe symbiosis -	Manuel Kleiner Ph.D. Student - Max-Planck-Institute for Marine Microbiology - Germany - Metaproteomics of a gutless marine worm and its symbiotic microbial community: Novel insights into host and symbiont metabolism and interactions -

	<p>Catherine Masson-Boivin Principal Investigator - INRA Castanet-Tolosan - France - Experimental Evolution of Rhizobia: from a Plant Pathogen to a Legume Symbiont -</p>	<p>Edouard Jurkevitch Associate Professor - The Hebrew University of Jerusalem - Israel - The gut bacterial community associated with the Mediterranean fruit fly (<i>Ceratitis capitata</i>) and its functions during the different life stages of the host -</p>
	<p>Elodie Chapuis Postdoctoral Researcher - Université de Montpellier 2 - France - Genetic evidence for symbiotic trade-off in a nematode by experimental selection -</p>	<p>Sudhakara Reddy Professor - Thapar University - India - Cadmium induces the expression of γ-glutamylcysteine synthetase (<i>GSH1</i>) gene in ectomycorrhizal fungi -</p>
	<p>Alison Bennett Research Associate - University of Wisconsin-Madison - USA - Using network modeling to examine evolutionary stability in multi-partner mutualisms -</p>	<p>Simon Dunn Senior Research Fellow - University of Queensland-Brisbane - Australia - Carbon flux, changing oceans and their relationship to coral reef health -</p>
12:15-1:45	<p>Lunch For New Investigators: Applying for NSF Grants Presentation and chat time with Gisele Muller-Parker from the United States National Science Foundation (Registration and Lunch Orders Available Sunday, August 9) Rm. 6201, MSB</p>	
	<p>THEME 1: EVOLUTION Rm. 1220 Ebling, MSB</p>	<p>THEME 2: METABOLIC SYMBIOSIS Rm. 1520, MSB</p>
1:45-2:00	<p>SESSION OVERVIEW BY CHAIR</p>	<p>SESSION OVERVIEW BY CHAIR</p>
	<p>1B: Specificity Chair: Edward Ruby Professor - University of Wisconsin-Madison - USA</p>	<p>2B: Controlling Metabolite Synthesis and Exchange Chair: Maria Harrison Scientist - Boyce Thompson Institute Adjunct Professor - Cornell University - USA</p>
2:00-4:00	<p>Invited Speakers</p>	
	<p>Thomas Bosch Professor - Christian-Albrechts University-Kiel - Germany - Host-microbe communication in the basal metazoan <i>Hydra</i> -</p>	<p>Maria Harrison Scientist – Boyce Thompson Institute Adjunct Professor - Cornell University – USA - Phosphate transport in the arbuscular mycorrhizal symbiosis -</p>
	<p>Mary Alice Coffroth Professor – SUNY Buffalo - Specificity determination in the development of coral/zooxanthellae symbioses -</p>	<p>Philip Poole Professor - John Innes Center - United Kingdom - Regulation of bacterial metabolism in legume nodules -</p>

	<p>Mathieu Sicard Assistant Professor – University of Poitiers- CNRS - France - On the different forms of specificity in the <i>Steinernema-Xenorhabdus</i> symbioses -</p>	<p>Uwe Nehls Professor - University of Bremen - Germany - Ectomycorrhizas as a hub between trees and soil microbes in forest ecosystems -</p>
	<p>Cameron Currie Associate Professor - University of Wisconsin- Madison - USA - Exploring symbiont specificity across multiple scales in the fungus-growing ant-microbe symbiosis -</p>	<p>David Yellowlees Professor - ARC Centre of Excellence for Coral Reef Studies - Australia - Metabolic exchange between <i>Symbiodinium</i> and its invertebrate host: an unequal partnership? -</p>
4:00-4:30	Break	
4:30-5:30	Selected Abstract Speakers	
	<p>Takema Fukatsu Group Leader - National Institute of Advanced Industrial Science and Technology - Japan - Diversity and evolutionary origins of endosymbiotic bacteria in blood-feeding insects -</p>	<p>Alan Verde Assistant Professor - Maine Maritime Academy - USA - Nutritional exchange in the anemonefish - anemone symbiosis: carbon and nitrogen is transferred to anemonefish from anemone and zooxanthellae -</p>
	<p>James Angus Chandler Ph.D. Student - University of California-Davis - USA - Microbial diversity associated with natural <i>Drosophila</i> populations -</p>	<p>Andreas Beck Research Scientist - Botanische Staatssammlung Muenchen - Germany - Isotopologue profiling in lichens -</p>
	<p>Elena Toenshoff Ph.D. Student - University of Vienna - Austria - Molecular ecology of bacteriocyte-associated endosymbionts in adelgids -</p>	<p>Elfie Stocker-Wörgötter Professor - University of Salzburg - Austria - Metabolic diversity of lichen-forming, ascomycetous fungi: Culturing, metabolite production and polyketide synthase (PKS) genes -</p>
	<p>Mark Mandel Postdoctoral Fellow - University of Wisconsin- Madison - USA - Probing the development and evolution of host specificity by functional analyses in symbiotic <i>Vibrio fischeri</i> -</p>	<p>Christian Lott Ph.D. Student - Max Planck Institute for Marine Microbiology - Germany - Ecophysiology of the symbiosis between a gutless marine worm and its microbial community -</p>
5:30-5:45	<p>Clayton Cook National Science Foundation Rm. 1220 Ebling, MSB</p>	
5:45-6:30	<p>Douglas Zook - President of the International Symbiosis Society – - Symbiotic systems dominate in northwest Amazon – Rm. 1220 Ebling, MSB</p>	

Tuesday August 11th

	THEME 1: EVOLUTION Rm. 1220 Ebling, MSB	THEME 2: METABOLIC SYMBIOSIS Rm. 1520, MSB
8:00-8:15	SESSION OVERVIEW BY CHAIR	SESSION OVERVIEW BY CHAIR
	1C: Evolutionary Genomics and Coevolution Chair: Nicole Gerardo Assistant Professor - Emory University - USA	2C: Synthesis and Activity of Symbiotic Association Secondary Metabolites Chair: Michael Thomas Assistant Professor - University of Wisconsin-Madison - USA
8:15-10:15	Invited Speakers	
	Nicole Gerardo Assistant Professor - Emory University - USA - Modulation of the pea aphid immune response by protection-conferring symbionts -	Helge Bode Professor - Goethe Universität Frankfurt - Germany - Biosynthesis and function of secondary metabolites from <i>Photorhabdus</i> and <i>Xenorhabdus</i> -
	Esther Angert Associate Professor - Cornell University - USA - Determining how reproductive strategy impacts the symbiotic relationship of intestinal bacteria and their vertebrate host -	Christopher Schardl Professor - University of Kentucky - USA - Symbionts with super genomes: metabolic diversity of grass endophytes -
	John McCutcheon Post-doctoral Fellow - University of Arizona - USA - Convergent evolution of metabolic roles in bacterial co-symbionts of insects -	Eric Schmidt Associate Professor - University of Utah - USA - Cyanobacterial symbiosis in tropical ascidians -
	Colleen Cavanaugh Professor - Harvard University - USA - Shedding light on chemosynthetic symbioses: Comparative genomics, phylogeny, and evolution -	Jorge Vivanco Professor - Colorado State University - USA - Underground communication between roots and soil organisms -
10:15-10:45	Break	
10:45-11:45	Selected Abstract Speakers	
	Daniel Distel Executive Director - Ocean Genome Legacy - USA - Shipworm symbionts: Early insights from genomics -	Daniele Armaleo Associate Professor - Duke University - USA - Identification of a polyketide synthase linked to the synthesis of the depsidone grayanic acid in the lichen <i>Cladonia grayi</i> -
	Harald Gruber-Vodicka Ph.D. Student - University of Vienna - Austria - Alphaproteobacteria as coevolved thiotrophic symbionts in marine catenulid flatworms with a worldwide distribution -	Margo Haygood OGI Distinguished Professor - Oregon Health and Science University - USA - The role of <i>Endobugula</i> species, specific bacterial symbionts of marine bryozoans in the genus <i>Bugula</i> , in the biosynthesis of defensive secondary metabolites -

	<p>Stephan Schmitz-Esser Postdoctoral Fellow - University of Vienna - Austria - The genome of the amoeba symbiont '<i>Candidatus</i> Amoebophilus asiaticus' reveals common mechanisms for host cell interaction among amoeba-associated bacteria -</p>	<p>Dirk Krüger Senior Scientist - Helmholtz Centre for Environmental Research UFZ, Halle (Saale) - Germany - Bacteria Living on Ectomycorrhizal Fungi: Feeding and Shielding the Mushrooms -</p>
	<p>David Bird Professor - North Carolina State University - USA - Signatures of horizontal gene transfer and convergent evolution in the root-knot nematode genome -</p>	<p>Dr. Rupam Kapoor Reader, Department of Botany - University of Delhi - India Visiting Scientist (BOYSCAST Fellow) - University of Alabama-Huntsville - USA - Arbuscular mycorrhiza in improving the yield of secondary metabolites In medicinal plants -</p>
11:45-1:15	<p>Lunch Governing Council Meeting Rm. 6201</p>	
	<p>THEME 1: EVOLUTION Rm. 1220 Ebling, MSB</p>	<p>THEME 2: METABOLIC SYMBIOSIS Rm. 1520, MSB</p>
1:15-1:30	<p>SESSION OVERVIEW BY CHAIR</p>	<p>SESSION OVERVIEW BY CHAIR</p>
	<p>1D: Innovation Chair: Mary Beth Saffo Harvard University – Marine Biological Laboratories - USA</p>	<p>2D: Genomics of Host and Symbiont Metabolism Chair: Gary Stacey Professor - University of Missouri - USA</p>
1:30-3:30	<p>Invited Speakers</p>	
	<p>Christian Hertweck Professor - Leibniz Institute for Natural Product Research and Infection Biology (HKI), Jena - Germany - Endofungal bacteria as producers of mycotoxins - insights into an overlooked symbiosis -</p>	<p>Birgitta Bergman Professor - Stockholm University - Sweden - Genomic Analysis of a Vertically Inherited symbiotic cyanobacterium: a nitrogen-fixing plastid in the making? -</p>
	<p>Francois Lutzoni Associate Professor - Duke University - USA - Macroevolution as a unifying framework for integrative studies of symbiotic systems -</p>	<p>John Glass Professor - J. Craig Venter Institute - USA - Synthetic genomics: Progress on construction of a synthetic bacterial cell -</p>
	<p>Marc-André Selosse Professor - University of Montpellier - France - Evolution of mycorrhizal associations in Ericaceae shaped host ecology: an overview -</p>	<p>Sidney Pierce Professor - University of South Florida - USA - Chlorophyll synthesis in a sea slug using transferred algal nuclear genes -</p>
	<p>Robert Vrijenhoek Senior Scientist - Monterey Bay Aquarium Research Institute - USA - Genetics and evolution of deep-sea chemosynthetic microbes and their invertebrate hosts -</p>	<p>Gary Stacey Professor - University of Missouri - USA - Functional Genomics of the <i>Bradyrhizobium japonicum</i>-soybean nitrogen fixing symbiosis -</p>
3:30-4:00	<p>Break</p>	

4:00-5:00	Selected Abstract Speakers	
	<p>Wolfgang Miller Assistant Professor - Medical University of Vienna - Austria - The impact of <i>Wolbachia</i> on symbiotic speciation -</p>	<p>Alexander Siegl Graduate Student - University of Wuerzburg - Germany - Whole genome amplification of a single poribacterial cell: Insights into the genome of a marine sponge symbiont -</p>
	<p>Mary Beth Saffo Harvard University – Marine Biological Laboratories - USA - Symbiotic innovation: Insiders' perspectives -</p>	<p>Sandy Macdonald Postdoctoral Researcher - University of York - United Kingdom - Modelling metabolite flux between the pea aphid and its endosymbiont <i>Buchnera aphidicola</i> APS -</p>
	<p>Caroline Verna Ph.D. Student - Max Planck Institute for Marine Microbiology - Germany - Unexpected symbiont diversity in the Whale-fall siboglinid <i>Osedax mucofloris</i> -</p>	<p>Mustafa Morsy Postdoctoral Fellow - Noble Foundation - USA - A virus helps a fungus that helps a plant survive heat stress -</p>
	<p>Sigrid Katz Ph.D. Student - University of Vienna - Austria - Of Bones and Worms: Origin and organization of the Trophosome in <i>Osedax</i> from the monterey canyon -</p>	<p>Dhileepkumar Jayaraman Research Assistant - University of Wisconsin-Madison - USA - Role of <i>Medicago truncatula</i> 3-Hydroxy-3-Methylglutaryl Coenzyme A Reductase 1 (HMGR1) in symbiotic signaling -</p>
5:00-6:30	<p>Poster Session A, Abstracts – 1-62 Tripp Commons, 2nd Floor, Memorial Union</p>	

Wednesday August 12th

9:00am ISS Membership Meeting (Rm. 104 Van Hise Building)
9:00am NEMASYM RCN Meeting (Rm. 1520 MSB)
Excursions

Thursday August 13th

	Theme 3: Host-Symbiont Interface Rm. 1220 Ebling, MSB	Theme 4: Ecology Rm. 1520, MSB
8:00-8:15	SESSION OVERVIEW BY CHAIR	SESSION OVERVIEW BY CHAIR
	3A: Surface Molecules and Matrices Chair: Karen Visick Associate Professor - Loyola University - USA	4A: Host Defense Symbiosis Chair: Keith Clay Professor - Indiana University - USA
8:15-10:15	Invited Speakers	
	Laurie Comstock Associate Professor - Harvard Medical School, Brigham and Women's Hospital - USA - Bacterial factors involved in colonization of the mammalian intestine by <i>Bacteroides fragilis</i> -	A. Elizabeth Arnold Assistant Professor - University of Arizona - USA - Evolution of endophytic symbioses: implications for host defense -
	Ann Hirsch Professor - UCLA - USA - Stuck on you--Initiating symbiotic interactions between microbes and plants -	Keith Clay Professor - Indiana University - USA - Clavicipitaceous endophytes of grasses, alkaloids and protection from natural enemies -
	Karen Visick Associate Professor - Loyola University - USA - <i>Vibrio fischeri</i> genes, surface molecules and matrix components necessary for mutualism with <i>Euprymna scolopes</i> -	Nicole Lopanik Assistant Professor - Georgia State University - USA - Chemically mediated defense of a marine invertebrate by its microbial symbiont -
	Graham Walker Professor - MIT - USA - <i>Sinorhizobium meliloti</i> functions necessary for intra-nodule survival -	Kerry Oliver Assistant Professor - University of Georgia, USA - Role of bacteriophage in symbiont-based defense against parasitic wasps in aphids -
10:15-10:45	Break	
10:45-11:45	Selected Abstract Speakers	
	Silvia Bulgheresi Postdoctoral Fellow - University of Vienna - Austria - Remarkable sequence variability in the Mermaid lectin family -	Rumsais Blatrix Postdoctoral Fellow - Center for Evolutionary and Functional Ecology - France - Plant communication signals inducing defense by host ants -
	John Chaston Ph.D. Student - University of Wisconsin- Madison - USA - Mutational analysis yields insights into the role of a bacterial host-association factor in a model animal-bacterial mutualism -	Patrick Abbot Assistant Professor - Vanderbilt University - USA - The evolution and ecology of nutrition and defense in the fungal symbioses of gall midges -

	<p>Elisha Wood-Charlson Postdoctoral Fellow - University of Hawaii-Honolulu - USA - Unique cell surface glycan profiles discriminate between closely related clade <i>Symbiodinium</i> dinoflagellates -</p>	<p>Martin Kaltenpoth Postdoctoral Fellow - University of Regensburg - Germany - Population dynamics and evolutionary history of a defensive insect-bacteria symbiosis -</p>
	<p>Quan Zhang Postdoctoral Fellow - Boyce Thompson Institute for Plant Research - USA - An ATP-binding cassette (ABC) transporter essential for arbuscular mycorrhizal (AM) symbiosis -</p>	<p>Barbara Schulz Associate Professor - University of Braunschweig - Germany - Fungal root endophyte <i>Phialocephala fortinii</i>: friend or foe? -</p>
11:45-1:15	Lunch	
	Theme 3: Host-Symbiont Interface Rm. 1220 Ebling, MSB	Theme 4: Ecology Rm. 1520, MSB
1:15-1:30	SESSION OVERVIEW BY CHAIR	SESSION OVERVIEW BY CHAIR
	<p>3B: Symbiont Signal Transduction and Host Manipulation Chair: Michael Sadowsky Professor - University of Minnesota - USA</p>	<p>4B: Complex Interactions in a Changing Environment Chair: Ken Raffa Professor - University of Wisconsin-Madison - USA</p>
1:30-3:30	Invited Speakers	
	<p>William Broughton Professor - University of Geneva - Switzerland - Signal exchange in symbiotic Rhizobium-legume interactions -</p>	<p>Kier Klepzig Assistant Director of Research - United States Forest Service - USA - Symbiosis: A key driver of bark beetle physiology, ecology, evolution and impacts on humans -</p>
	<p>Joerg Graf Associate Professor - University of Connecticut - USA - The role of the Type-III secretion system of <i>Aeromonas veronii</i> in beneficial and pathogenic associations -</p>	<p>Katarzyna Turnau Professor - Jagiellonian University - Kraków - Poland - Mycorrhizae in endangered plants new perspectives for conservation projects -</p>
	<p>Gopi Podila Professor - University of Alabama-Huntsville - USA - Comparative and functional genomics of symbiotic signaling pathways from model ectomycorrhizal symbiont <i>Laccaria bicolor</i> -</p>	<p>Diana Six Professor - University of Montana - USA - Climate change and the stability of bark beetle-fungal symbioses -</p>
	<p>Jack Werren Professor - University of Rochester - USA - Lateral gene transfers from <i>Wolbachia</i> to hosts and dynamics of <i>Wolbachia</i> infections -</p>	<p>Simon R. Dunn Senior Research Fellow - Centre for Marine Studies, University of Queensland - Australia - Potential impacts of climate change on coral reef ecosystems -</p>
3:30-4:00	Break	

4:00-5:00	Selected Abstract Speakers	
	<p style="text-align: center;">Jacques Batut Principal Investigator - LIPM INRA-CNRS Castanet-Tolosan - France - Cyclic nucleotide signalling in the plant symbiont <i>Sinorhizobium meliloti</i> -</p>	<p style="text-align: center;">James Susaimuthu Postdoctoral Fellow - The Samuel Roberts Noble Foundation - USA - Exploring the mechanisms of thermal tolerance in the three-way symbiosis involving a virus, a fungus and a plant -</p>
	<p style="text-align: center;">Anthony Heidt Master's Research Student - Michigan State University - USA - Role of Type VI secretion system in symbiosis of <i>Photobacterium luminescens</i> and <i>Heterorhabditis</i> <i>bacteriophora</i> -</p>	<p style="text-align: center;">Yuval Gottlieb Assistant Professor - The Hebrew University of Jerusalem - Israel - Bacterial symbiont in the spirocercosis system -</p>
	<p style="text-align: center;">Irene Newton Postdoctoral Fellow - Tufts University - USA - Large scale identification of <i>Wolbachia pipientis</i> wMel Type IV effectors -</p>	<p style="text-align: center;">Mark Martin Associate Professor - University of Puget Sound - USA - Diversity of cloacal microbiota in the striped plateau lizard, <i>Sceloporus virgatus</i>, and possible relevance to fitness -</p>
	<p style="text-align: center;">Harriet Harris Professor - Concordia University College of Alberta - Canada - A unique adenine methyltransferase enzyme from <i>Wolbachia pipientis</i> (wRi) may be involved in host-endosymbiont interactions -</p>	<p style="text-align: center;">Matias J. Cafaro Associate Professor - University of Puerto Rico - USA - Island effect on the biodiversity of gut symbionts of arthropods (trichomyctes) -</p>
5:00-6:15	<p>Dennis and Alicemay Watson Keynote Lecturer Nancy Moran - Professor at the University of Arizona – Rm. 1220 Ebling, MSB</p>	
6:15-7:45	<p>Poster Session B – Abstracts 63-128 Tripp Commons, 2nd Floor, Memorial Union</p>	

Friday August 14th

	Theme 3: Host-Symbiont Interface Rm. 1220 Ebling, MSB	Theme 4: Ecology Rm. 1520, MSB
8:00-8:15	SESSION OVERVIEW BY CHAIR	SESSION OVERVIEW BY CHAIR
	3C: Host Recognition of and Responses to Symbionts Co-Chair: Jean-Michel Ané Assistant Professor - University of Wisconsin-Madison - USA Co-Chair: Virginia Weis Professor - Oregon State University - USA	4C: Microbial Symbiont Impacts on Communities and Ecosystems Chair: James Bever Professor - Indiana University - USA
8:15-10:15	Invited Speakers	
	Simona Radutoiu Associate Professor - University of Aarhus - Denmark - Plant recognition of symbiotic rhizobia -	Scott R. Santos Assistant Professor - Auburn University - USA - Symbiotic dinoflagellates (<i>Symbiodinium</i> , Dinophyta) as drivers of community structure and complexity in the coral reef ecosystem -
	Won-Jae Lee Ewha Woman's University and National Creative Research Initiative Center for Symbiosystem - South Korea - Bacterial-modulated signaling pathways in gut homeostasis in <i>Drosophila</i> -	Todd Palmer Assistant Professor - University of Florida - USA - David and Goliath: ant symbionts buffer against megaherbivore-induced landscape change in an African savanna -
	Jean-Michel Ané Assistant Professor - University of Wisconsin-Madison - USA - Conserved signaling pathways in plant-microbe symbioses -	James Bever Professor - Indiana University - USA - The ecological consequences of diversity within the arbuscular mycorrhizal symbiosis -
	Virginia Weis Professor - Oregon State University - USA - The regulation of cnidarian-dinoflagellate mutualisms: host innate immunity and symbiont immune modulation are key to symbiosis stability -	Jennifer Rudgers Assistant Professor - Rice University - USA - Small fungi with big impacts: community and ecosystem-level consequences of grass-endophyte symbioses -
10:15-10:45	Break	
10:45-11:45	Selected Abstract Speakers	
	Muthusubramanian Venkateshwaran Ph.D. Student - University of Wisconsin-Madison - USA - Cross-species complementation and localization studies to functionally characterize <i>Medicago truncatula</i> DMI1 and its homologs CASTOR and POLLUX in <i>Lotus japonicus</i> -	Noah Rosenzweig Postdoctoral Fellow - University of Minnesota-St. Paul - USA - Microbial diversity associated with the long-lived perennial plant species <i>Andropogon gerardii</i> and <i>Lespedeza capitata</i> : Impacts on plant host species on Rhizosphere bacterial consortium diversity and composition -

	<p>Laura Serbus Postdoctoral Fellow - University of California-Santa Cruz - USA - A host growth factor pathway controls intracellular <i>Wolbachia</i> titer -</p>	<p>Linda Graham Professor - University of Wisconsin-Madison - USA - A multispecies consortium of eukaryotic and prokaryotic heterotrophs from peat bogs -</p>
	<p>Emilie-Fleur Dicks Ph.D. Candidate - Victoria University of Wellington - New Zealand - Symbiotic dinoflagellates modify the host innate immune response: Initiating the Tgf-beta pathway in cnidaria -</p>	<p>Sven Hammann Ph.D. Student - Christian Albrechts University-Kiel - Germany - Bacterial symbionts of an invasive species in a warming sea: <i>Mnemiopsis leidyi</i> -</p>
	<p>Mathieu Pernice Marie Curie Postdoctoral Research Fellow - University of Queensland-St Lucia - Australia - Influence of thermal stress on the molecular regulation of cell death in coral-dinoflagellate symbiosis -</p>	<p>Bhoopander Giri Assistant Professor - University of Delhi - India - Arbuscular mycorrhizal symbiosis in restoration of salt stress habitats -</p>
11:45-1:15	Lunch	
	Theme 3: Host-Symbiont Interface Rm. 1220 Ebling, MSB	Theme 4: Ecology Rm. 1520, MSB
1:15-1:30	SESSION OVERVIEW BY CHAIR	SESSION OVERVIEW BY CHAIR
	<p>3D: Symbiont Transmission – Processes and Mechanisms Chair: Margaret McFall-Ngai Professor - University of Wisconsin-Madison - USA</p>	<p>4D: Community Ecology of Symbionts Chair: Jo Handelsman Professor – University of Wisconsin-Madison - USA</p>
1:30-3:30	Invited Speakers	
	<p>Monika Bright Professor - University of Vienna - Austria - Microbial symbiont transmission -</p>	<p>Rebecca Vega Thurber Assistant Professor - Florida International University - USA - Stressor induced pathogenesis in the coral Holobiont -</p>
	<p>Abdelaziz Heddi Professor - L'INSA de Lyon - France - The innate immune system says 'YES' to endosymbionts, but keeps them under control -</p>	<p>Daniel Thornhill Postdoctoral Fellow - Bowdoin College – USA - Population genetic structure of symbiotic dinoflagellates in two Caribbean reef-building corals -</p>
	<p>Seana Davidson Research Assistant Professor - University of Washington - USA - Earthworm acquisition of a bacterial consortium during embryogenesis -</p>	<p>Gwyn Beattie Associate Professor - Iowa State University - USA - Leaf-associated bacteria: survival strategies and community functions -</p>

	<p>Spencer Nyholm Assistant Professor - University of Connecticut - USA - Establishing and maintaining specificity in a Squid/Vibrio symbiosis -</p>	<p>Jo Handelsman Professor - University of Wisconsin-Madison - USA - <i>Bacillus thuringiensis</i>, resident gut microbiota, and innate immunity in lepidopteran insects-</p>
3:30-4:00	Break	
4:00-5:00	Selected Abstract Speakers	
	<p>Todd Ciche Assistant Professor - Michigan State University - USA - A phenotypic switch is key to <i>Photorhabdus</i> symbiosis -</p>	<p>Angela Kouris Ph.D. Student - UQAM - Canada - Molecular characterization of Blue Mat (<i>Folliculinopsis</i> sp.) ciliate symbionts from northeast Pacific hydrothermal vents -</p>
	<p>Yoshitomo Kikuchi Postdoctoral Fellow - AIST - Japan - Infection dynamics of <i>Burkholderia</i> symbionts in the bean bug <i>Riptortus pedestris</i> visualized by GFP-labeled symbiotic bacteria -</p>	<p>Lucile Durand Ph.D. Student - Ifremer - France - Microbial diversity associated with the hydrothermal shrimp <i>Rimicaris exoculata</i> gut: Possible occurrence of a resident microflora -</p>
	<p>Joachim Meessen Ph.D. Student - University of Dusseldorf - Germany - Pre-contact interactions of the mycobiont of <i>Fulgensia bracteata</i> with specific and unspecific photobionts and a non-lichenising green alga -</p>	<p>Farrah Bashey-Visser Postdoctoral Fellow - Indiana University - USA - Antagonistic interactions among bacterial symbionts of nematodes -</p>
	<p>Koty Sharp Postdoctoral Fellow - Ocean Genome Legacy - USA - Exploring bacterial community dynamics in early life stages of the Caribbean coral <i>Porites astreoides</i> -</p>	<p>Jeffrey O. Dawson Professor - University of Illinois-Urbana - USA - Spatial distribution of <i>Frankia</i> with respect to soils and host plants -</p>
5:00-6:30	Graduate Student and Postdoctoral Fellow Forum Rm. 1520, MSB	
6:30-8:30	Congress Dinner Concourse Hotel 1 W Dayton St Madison, WI 53703	

Saturday August 15th

Theme 5: Focused Sessions		
8:00-8:15	SESSION OVERVIEW BY CHAIR	SESSION OVERVIEW BY CHAIR
	<p>5A: Symbiosis Models and the Human Microbiome Rm. 1220 Ebling, MSB Chair: Justin Sonnenburg Assistant Professor - Stanford School of Medicine - USA</p>	<p>5B: Threats to Earth Systems, Restoration Ecology, and Applications Rm. 1520, MSB Organized by the late Peter Graham Professor - University of Minnesota – USA Session Chair: Michael Sadowsky Professor - University of Minnesota - USA</p>
8:15-10:15	Invited Speakers	
	<p>Ruth Ley Assistant Professor - Cornell University - USA - Co-evolution between humans and their microbiota -</p>	<p>Gisele Muller-Parker Program Director - National Science Foundation - USA - Environmental variability across multiple scales and the consequences for symbiosis in the anemone <i>Anthopleura elegantissima</i> -</p>
	<p>Justin Sonnenburg Assistant Professor - Stanford School of Medicine - USA - Insight into intestinal microbiota function and manipulation -</p>	<p>Todd LaJeunesse Assistant Professor - Pennsylvania State University - USA - Coral-algal symbioses in a time of climate change -</p>
	<p>Karen Guillemin Associate Professor - University of Oregon - USA - Molecular dialogues with the microbiota in the zebrafish intestine -</p>	<p>R. J. Rodriguez Project Leader and Affiliate Professor - U.S. Geological Survey and University of Washington - USA - A symbiogenic mechanism for stress tolerance in plants and mitigating impacts of climate change -</p>
	<p>Edward Ruby Professor - University of Wisconsin-Madison - USA - Beneficial bacterial-invertebrate symbiosis: using a natural model to investigate general concepts -</p>	<p>In Memoriam Peter Graham Professor - University of Minnesota - USA</p>
10:15-10:45	Break	
10:45-11:45	Selected Abstract Speakers	
	<p>Kristina Fontanez Ph.D. Student - Harvard University - USA - Bacterial diversity associated with <i>Caenorhabditis elegans</i> -</p>	<p>Martha Hunter Professor - University of Arizona - USA - Spectacular spread of <i>Rickettsia</i> - a facultative bacterial symbiont of the sweetpotato whitefly -</p>

	<p>Michele Maltz Ph.D. Student - University of Connecticut - USA - The Type II secretion system is an essential colonization factor in the symbiosis of <i>Aeromonas veronii</i> and the medicinal leech, <i>Hirudo verbana</i> -</p>	<p>Louis Tisa Professor - University of New Hampshire - USA - <i>Frankia</i> genomics, signaling, and natural products: A new light on an old symbiosis -</p>
	<p>Caitlin Brennan Ph.D. Student - University of Wisconsin-Madison - USA - Flagellar motility and chemotaxis in the initiation of the <i>Euprymna scolopes-Vibrio fischeri</i> symbiosis -</p>	<p>Veena Pande Assistant Professor - Kumaun University - India - Molecular diversity of ectomycorrhizal fungi of central Himalaya: An important component of forest ecosystem -</p>
	<p>Lindsey Bomar Ph.D. Student - University of Connecticut - USA - Application of real-time PCR to identify genes expressed in the digestive tract of <i>Hirudo verbana</i> by its symbiont, <i>Aeromonas veronii</i> -</p>	<p>Elizabeth McGraw Assistant Professor - The University of Queensland - Australia - A new set of <i>Wolbachia</i>-associated host phenotypes in the mosquito, <i>Aedes aegypti</i> -</p>
11:45-1:15	Lunch	
	Theme 5: Focused Sessions	
1:15-1:30	SESSION OVERVIEW BY CHAIR	SESSION OVERVIEW BY CHAIR
	<p>5C: Agents of Dependence – from Viruses to Organelles Rm. 1220 Ebling, MSB Chair: Seth Bordenstein Assistant Professor - Vanderbilt University - USA</p>	<p>5D: Education Workshop Rm. 1520, MSB Chairs: Patricia Stock Associate Professor - University of Arizona - USA Marc-André Seloisse Professor - Université Montpellier II - France</p>
1:30-3:30	Invited Speakers	
	<p>Seth Bordenstein Assistant Professor - Vanderbilt University - USA - Mobile elements in symbiotic bacteria -</p>	<p>Marc-André Seloisse Professor - University of Montpellier - France - Darwin and Symbiosis - a 150 year-old conflict? The teacher's point of view -</p>
	<p>Mary Rumpho Professor - University of Maine - USA - Sea slug - algal chloroplast symbiosis and evolution -</p>	<p>Patricia Stock Associate Professor – University of Arizona - ENTO 310-Living in symbiosis: bridging knowledge in undergraduate curricula -</p>
	<p>Serap Aksoy Professor - Yale School of Public Health - USA - Biology of host-pathogen interactions, particularly tsetse flies -</p>	<p>William Reznikoff Emeritus Professor University of Wisconsin-Madison – Visiting Scientist - Marine Biological Laboratories USA - The <i>Wolbachia</i> project: discover the microbes within - Bordenstein and Reznikoff</p>

	<p>Joel Sachs Assistant Professor - University of California- Riverside - USA - The evolutionary origins of uncooperative rhizobia -</p>	<p>Karen Cloud-Hansen Post-doctoral/HHMI Fellow - University of Wisconsin-Madison - Money, sex, and drugs: Exciting college freshman about genetics -</p>
3:30-4:00	Break	
4:00-5:00	Selected Abstract Speakers	
	<p>Barton Slatko Senior Scientist - New England Biolabs, Inc. - USA - The <i>Wolbachia</i> endosymbiont as a potential anti-filarial nematode target -</p>	<p>Joanne Odden Assistant Professor - Metropolitan State College of Denver - USA - Evolution of a college teaching resource: Mutualistic symbiosis website -</p>
	<p>Ikuko Yuyama Postdoctoral Fellow - University of the Ryukyus - Japan - Analysis of endosymbiosis genes in coral harboring zooxanthellae -</p>	<p>Darby G. Oldenburg Assistant Professor - University of Wisconsin- Richland - USA - Earthworms revisited: a model system for undergraduate biology education and beyond-</p>
	<p>Ryuichi Koga Research Scientist - National Institute of Advanced Industrial Science and Technology - Japan - Discovery of a novel secondary endosymbiont of the pea aphid: Microbiological characterization, interaction with co-infecting endosymbionts, and phenotypic effect on the host insect -</p>	<p>Observation of Living Material Rms. 2420 and 2410, MSB</p>
5:00-5:30	Conference Closing Rm. 1220 Ebling, MSB	