

**82ND ANNUAL MEETING OF
THE MYCOLOGICAL
SOCIETY OF AMERICA**

JUNE 8 – 11, 2014



2014

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SATURDAY, JUNE 7TH

10:00 AM - 5:30 PM MSA Council Meeting Kellogg Room 103 AB

SUNDAY, JUNE 8TH

8:30AM - 3:00 PM MSA Foray Meet in Front of Kellogg Central Lobby
Bus to Eddy Discovery Cntr, Waterloo State Recreation Area
(17030 Bush Rd, Chelsea MI) Travel time 1 hr. Box lunches for registrants.
Buses load at 8:15 and leave promptly at 8:30.

1:00 PM - 6:00 PM Registration Kellogg Central Lobby

3:30 PM - 4:30 PM NSF-MICC discussion Beggar's Banquet
Downtown East Lansing

6:30 PM - 10:00 PM Cocktail Reception Kellogg East Patio
Light hors d'oeuvres & drinks. Bring Drink Tickets labeled 'Reception.'
In case of rain event will be in Kellogg Big Ten C

MONDAY, JUNE 9TH

7:00 AM - 8:30 AM Continental Breakfast Kellogg South Lobby

8:30 AM - 10:00 AM 1 Contributed Papers - Ecology/Pathology I Kellogg Room 103

Chair: Donald M. Walker

- 8:30 1001 Walker, Donald M.* - Lawrence, Brandy R. - Graham, Sean P. - Wooten, Jessica
A metagenomics approach to the top-down effect; red-backed salamander effects on fungal communities in Midwestern upland deciduous forests
- 8:45 1002 Adenipekun, Dr.clementina Oyinkansola* - Ipeaiyeda, Dr Ayodele R - Egbewale , Samson O.
Biodegradation of Polycyclic Aromatic Hydrocarbons (PAHs) in spent and fresh cutting fluids polluted soils by a white-rot fungus *Pleurotus ostreatus* (Jacq.)Fr.Kumm
- 9:00 1003 Vandegrift, Roo* - Thomas, Daniel - Ju, Yu-Ming - Carroll, George - Roy, Bitty
Dispersal ecology of endophytic Xylariaceae in subtropical Taiwan: a test of the Foraging Ascomycete Hypothesis
- 9:15 1004 Beard, Charles E
Nutritional sources for the trichomycete fungus *Harpella melusinae*
- 9:30 1005 Tobias, Terri* - Sinsabaugh, Robert - Suding, Katharine - Farrer, Emily - Porras-Alfaro, Andrea
Seed associated fungi: mutualists and pathogens, and their potential impact on seed recruitment and community composition.
- 9:45 1006 Maynard, Daniel S.* - Crowther, Thomas W. - Leonard, Kenneth E. - Bradford, Mark A
Predicting the realized niche by modeling fungal competitive ability

8:30 AM - 10:00 AM 2 Contributed Papers - Systematics I**Kellogg Auditorium****Chair: Brian P. Looney**

- 8:30 2001 Looney, Brian P.* - Hampe, Felix - Ryberg, Martin - Sánchez-García, Marisol - Matheny, Brandon
Global diversity and host evolution in a diverse clade of ectomycorrhizal fungi (*Russula*,
Russulales)
- 8:45 2002 Mueller, Gregory M.* - Dahlberg, Anders
Mainstreaming Fungal Conservation
- 9:00 2003 O'Donnell, Kerry
Phylogenetic diversity and fidelity of the *Euwallacea* (Coleoptera:Xyleborini) - *Fusarium*
mutualism
- 9:15 2004 Powers, Rob
Mating Studies and Molecular Phylogenies Reveal a Species Complex in *Coprinellus*
disseminatus
- 9:30 2005 Taylor, John W.
Fungal species recognition is being challenged by next-generation-sequencing and fungal
generic concepts are being challenged by the new nomenclatorial code
- 9:45 2006 Zelski, Steven E* - Miller, Andrew N - Shearer, Carol A.
A molecular evaluation of the freshwater ascomycete family Annulatascaceae *sensu lato*

8:30 AM - 10:00 AM 3 Contributed Papers - Genetics/Molecular Biology I**Kellogg Room 104 AB****Chair: Sara Branco**

- 8:30 3001 Branco, Sara* - Taylor, John W. - Bruns, Thomas D.
Recent divergence in fungal populations
- 8:45 3002 Czaplicki, Lauren M* - Gunsch, Claudia
Evaluating Fungal Ecology under Heavy Polycyclic Aromatic Hydrocarbon Soil Contamination
- 9:00 3003 Diaz Valderrama, Jorge Ronny* - Aime, M. Catherine
Moniliophthora roreri (Marasmiaceae) possesses a tetrapolar mating system but appears to
reproduce clonally
- 9:15 3004 Gazis, Romina* - Kuo, Alan - Floudas, Dimitrios - Grigoriev, Igor - Spatafora, Joey - Hibbett,
David
Xylona heveae (Xylonomycetes) genome: a window to fungal endophytism
- 9:30 3005 Gilbert, Matthew* - Mack, Brian - Bhatnagar, Deepak - Cary, Jeff
RNA-Seq Analysis of an *nsdC* Mutant in *Aspergillus flavus*

10:30 AM - 11:00 AM Coffee Break**Kellogg South Lobby****10:45 AM - 12:00 PM S1 Special Lecture - Karling Lecture****Kellogg Auditorium****Chair: David Hibbett**

- 10:45 S1001 McDonald, Bruce A
The dark side of fungal domestication

12:00 PM - 1:00 PM Lunch

Kellogg Big Ten Room C and Riverside

1:00 PM - 2:30 PM 4 Contributed Papers - Genetics/Molecular Biology II

Kellogg Auditorium

Chair: Lisa Grubisha

- 1:00 4001 Grubisha, Lisa* - Dowie, Nicholas - Miller, Steven - Brewer, Jessica - Nelson, Bailey - Trowbridge, Steven - Klooster, Matthew
Conservation genetic study of *Rhizopogon kretzeriae* and *Pterospora andromedea* populations in eastern North America
- 1:15 4002 Uehling, Jessie* - Hameed, Khalid - Tschaplinski, Timothy - Gryganskyi, Andrii - Labbé, Jessy - Pelletier, Dale - Schaefer, Amy - Schadt, Christopher - Vilgalys, Rytas - Bonito, Gregory
Genomic-based interaction inferences of the bacterial endosymbiont *Glomeribacter* sp. lineage with associated fungal hosts
- 1:30 4003 Stevens, Bo Maxwell
Environmental Predictors of the Microbiome Associated with Serengeti Grasses
- 1:45 4004 Nagy, Laszlo* - Hibbett, David
Insights into the evolutionary origins of the white-rot decay apparatus in Basidiomycetes
- 2:00 4005 Hallen-Adams, Heather* - Pribil, Erica
Inter- and intraspecific diversity of *Candida* colonizing the healthy human gastrointestinal tract

1:00 PM - 2:30 PM 5 Contributed Papers - Ecology/Pathology II

Kellogg Room 103 AB

Chair: Aaron David

- 1:00 5001 David, Aaron* - May, Georgiana - Seabloom, Eric
Disentangling drivers of root endophyte communities in beach grasses
- 1:15 5002 Smyth, Christopher* - Schlesinger, Sara - Overton, Barrie - Butchkoski, Calvin
Application of the Alternative Host Hypothesis Elucidates Potential Virulence Genes in *Pseudogymnoascus destructans*
- 1:30 5003 Balwin, Thomas - Glenn, Anthony*
Detoxification of nitric oxide by *Fusarium verticillioides* is linked to denitrification
- 1:45 5004 Rojas, Alejandro* - Urrea, Keiddy - Rothrock, C.s. - Chilvers, Martin - Rupe, John
Effect of crop rotation and baiting temperature on the diversity of Oomycetes associated with root diseases of soybean
- 2:00 5005 Adongbede, Erute Magdalene* - Egboduku, Wisdom Ogenevwogaga
Effect of medicinal plants extracts on growth of *Collectotrichum gloeosporioides* (Penz.) Sacc. Isolated from *Carica papaya*

1:00 PM - 2:30 PM 6 Contributed Papers - Cell Biology/Physiology I

Kellogg Room 104 AB

Chair: Jonathan S. Schilling

- 1:00 6001 Schilling, Jonathan S.* - Presley, Gerald - Menke, Jon - Zhang, Jiwei
Tracking footprints of wood-degrading fungi that do the two-step
- 1:15 6002 Nguyen, Hai* - Pelin, Adrian - Chabot, Denise - Hirooka, Yuuri - Corradi, Nicolas - Seifert, Keith
Genome analysis and confocal microscopy of the heat resistant and xerotolerant basidiomycete *Basidioascus undulatus* reveal insight into its basic biology

- 1:30 6003 Lee, Samantha* - Hung, Richard - Bennett, Joan W.
Interactions between Fungi and Plants through Volatile Signaling: The Effects of Volatile Organic Compounds (VOCs) Emitted by *Trichoderma* on Plants
- 1:45 6004 Ramírez-Del Villar, Arianne* - Callejas-Negrete, Olga A. - Riquelme, Meritxell - Mouriño-Pérez, Rosa R.
The class V myosin in *Neurospora crassa*
- 2:00 6005 Corrales-Vargas, Isabel* - Cano-Domínguez, Nallely - Amarillas-González, Marisol - Castro-Longoria, Ernestina
Phenotypic characterization of the RhoGAPs mutants $\Delta bem-3$, $\Delta rgd-1$ and $\Delta rga-1$ in *Neurospora crassa*

2:30 PM - 3:00 PM Coffee Break Kellogg South Lobby

3:00 PM - 6:00 PM SY1 Symposium - Fungal functional traits in a changing world Kellogg Auditorium

Chair: Mia Rose Maltz

- 3:00 SY1001 Koide, Roger* - Fernandez, Christopher
Determining place and process: functional traits of ectomycorrhizal fungi
- 3:30 SY1002 Crowther, Thomas W.* - Maynard, Daniel S. - Bradford, Mark A
Thermal adaptation in fungi: Linking traits to biogeography
- 4:00 SY1003 Treseder, Kathleen - Maltz, Mia Rose* - Hawkins, Bradford - Noah, Fierer - Jason, Stajich - Krista, Mcguire
Evolutionary histories of fungi are reflected in their continental-scale biogeography
- 4:30 SY1004 Branco, Sarah
Fungi at a small-scale: spatial zonation of fungal assemblages around single trees.
- 5:00 SY1005 Herr, Joshua
Mining Metagenomes for Mycological Relevance - Finding Fungal Functions within Environmental Samples
- 5:30 SY1006 Wilson, Nathan
Mobilizing Fungal Trait Data Using the Encyclopedia of Life

3:00 PM - 6:00 PM SY2 Symposium - Kellogg Room 103 AB
Exploring the environmental side of the disease triangle in animal pathogens

Chair: Hannah Reynolds and Andrew N. Miller

- 3:00 SY2001 Allender, Matthew* - Bunick, David - Maddox, Carol
Another fungal pathogen threatening conservation: epidemiology of ophioidiomyces in free-ranging snakes
- 3:30 SY2002 Cornelison, Christopher T
Bacterially-mediated contact-independent antagonism of fungal diseases of bats and honeybees
- 4:00 SY2003 Hodkinson, Brendan P.* - Gardner, Sue E. - Tyldsley, Amanda S. - Boudhar, Sanaa - Margolis, David J. - Grice, Elizabeth A.
The diabetic foot ulcer microbiome: association with clinical factors and outcomes

- 4:30 SY2004 Raudabaugh, Daniel* - Miller, Andrew N
Biotic and Abiotic Factors Influencing the Environmental Persistence and Growth of
Pseudogymnoascus destructans
- 5:00 SY2005 Reynolds, Hannah T.* - Ingersoll, Tom - Barton, Hazel A
Environmental influences on bat colony persistence in White-nose Syndrome

3:00 PM - 6:00 PM SY3 Symposium - Secondary Metabolites Kellogg Room 104 AB

Chairs: Frances Trail and Hong Luo

- 3:00 SY3001 Bushley, Kathryn E.* - Spatafora, Joseph W.
Secondary Metabolites in Fungi: Evolution of Genes and Clusters
- 3:30 SY3002 Luo, Hong* - Angelos, Evan - Li, Xuan - Sgambelluri, R. Michael - Smith, Miranda O. - Hong, Sung-Yong - Scott Craig, John S. - Walton, Jonathan D.
Biosynthesis of Cyclic Peptide *Amanita* Toxins
- 4:00 SY3003 Newmister, Sean A.* - Tran, Hong - Yu, Fengan - Li, Shengying - Berlinck, Roberto G. S. - Williams, Robert M. - Sherman, David H.
Biosynthetic analysis of fungal derived [2.2.2] prenylated indole alkaloids
- 4:30 SY3004 Pestka, James
Trichothecenes produced by *Fusarium* species
- 5:00 SY3005 Wee, Josephine* - Linz, John
Transcriptional Regulation and Subcellular Localization of Aflatoxin Biosynthesis
- 5:30 SY3006 Wisecaver, Jennifer* - Slot, Jason - Rokas, Antonis
The evolution of fungal metabolic pathways

6:00 PM - 8:00 PM Mycological Editorial Board Meeting Kellogg Galaxy Room

6:00 PM - 8:00 PM Student Social Kellogg Corniche Room

8:00 PM - 10:00 PM POSTER SESSION Lincoln Room

- P1001 Villavicencio-Aguilar, Fausto M.* - Callejas-Negrete, Olga A. - Mouriño-Pérez, Rosa R.
AMI-1 a microtubule +TIP Associated to nuclear displacement in *Neurospora crassa*
- P1002 Ahrendt, Steven* - Jeong, Na - Ear, Sapphire - Stajich, Jason
Growth inhibition of *Neurospora crassa* by the chytridiomycete *Homolaphlyctis polyrhiza*
- P1003 Finlayson, Timothy John
Fungal-mediated biotransformation of DHEA (didehydroepiandrosterone) by *Penicillium coprobium* is associated with increased antimicrobial activity against bacteria and fungi
- P1004 Ratekin, Angela* - Taylor, Bernadette - Volk, Thomas
Survivor: Human pathogen edition. The virulence factor BAD1 expressed by *Blastomyces dermatitidis* yeast as a potential modulator of the host immune response by altering the production of neutrophil extracellular traps
- P1005 Lueschow, Shiloh* - Johnson, Lynnaun - Williams, Tabitha - Porras-Alfaro, Andrea
Phylogenetic Relationship Between Human Opportunistic Pathogens and the Causative Agent of White Nose Syndrome in Bats

- P1006 Wang, Qiong* - Chai, Benli - Tiedje, James M. - Cole, James R.
RDP: New tools for fungal analysis
- P1007 Bahkali, Ali Hassan* - Abd-Elsalam, Kamel - Guo, Jian-Rong - Mohamed, Khiyami - Verreet, Joseph-Alexander
Characterization of Novel Di-, Tri-, and Tetranucleotide Microsatellite Primers Suitable for Genotyping Various Plant Pathogenic Fungi with Special Emphasis on *Fusaria* and *Mycosphaerella graminicola*
- P1008 Bailey, Jordan* - Karaoglu, Haydar - Wellings, Colin - Park, Robery
Development of diagnostic molecular markers for *Puccinia striiformis* f. sp. *tritici*.
- P1009 Morris, Samuel D - Reboredo Segovia, Ana L - Hughes, Karen W.*
Cloning of ribosomal ITS PCR products creates numerous chimeric sequences - a test involving a hybrid between *Gymnopus dichrous* species I and II
- P1010 Liimatainen, Kare* - Niskanen, Tuula - Ammirati, Joseph F. - Kytovuori, Ilkka - Dima, Balint
Describing species of macrofungi using differences in DNA sequence data - a case study in *Cortinarius* (Agaricales)
- P3001 Hann-Soden, Christopher* - Taylor, John W
Reproductive Diversity and Sympatric Species in Populations of *Neurospora* from Soil
- P3002 Moore, Geromy
Turn on your love light: A heritability study using eGFP-transformed *Aspergillus flavus*
- P3003 Mccotter, Sean W.* - Humann, Jodi L. - Main, Dorrie - Okubara, Patricia A. - Carris, Lori - Castlebury, Lisa A.
The bipolar-mating wheat bunt pathogen, *Tilletia caries*, possesses an unusual complement of mating genes
- P3004 Mccotter, Sean* - Aujla, Iqbal - Garfinkel, Andrea - Jardini, Teresa - Mullahy, Sean - Xia, Chongjing - Adams, Michael - Carris, Lori - Peever, Tobin
Multiple phylogenetic species of morels (*Morchella*) occur in landscape settings in the Pacific Northwest
- P3005 Koch, Rachel* - Wilson, Andrew - Aime, M. Catherine
The recent speciation of gasteromycete *Guyanagaster necrorhiza* suggests endemism
- P3006 Wilson, Andrew* - Bell, Charles - Aime, M. Catherine
Deconstructing the co-evolutionary complexity of rust fungi (Pucciniales) and their plant hosts
- P3007 Reitman, Maxwell* - Bonito, Gm - Brenneman, T - Guevara, G - Healy, Rabern - Trappe, Jm - Smith, Me
Molecular systematics of the *Tuber lyonii* species complex
- P3008 Ortiz-Santana, Beatriz* - Kuo, Michael
Phylogeny and species delimitation of North American Leccinoid fungi
- P3009 Methven, Andrew S.* - Miller, Andrew N.
Evolutionary relationships of the clavarioid mushroom genus *Lentaria*
- P3010 Haight, John-Erich* - Laursen, G. A. - Glaeser, J. - Taylor, D. Lee
Phylogeny of *Fomitopsis pinicola*: A Species Complex
- P3011 Diaz Contreras, Alejandro - Cappello Garcia, Silvia - Cifuentes, Joaquin*
New records of tropical Hygrophoraceae in Mexico
- P3012 Lodge, D. Jean* - Hughes, Karen W.
Hygrocybe flavescens (Kauff.) Singer - connecting the dots and resurrecting the name

- P5001 Kijpornyongpan, Teeratas* - Aime, M. Catherine
Three new species of yeasts belonging to Exobasidiomycetes
- P5002 Abercrombie, Troy D* - Riggle, Jeremy
Analysis of some nutritive and toxic elements in four species of wild edible mushrooms.
- P5003 Trappe, Matthew J. - Smith, Matthew E.* - Hobbie, Erik
Exploring the phylogenetic affiliations and the trophic mode of *Sedecula pulvinata* (Sedeculaceae)
- P5004 Kolp, Matthew* - Double, Mark - Fulbright, Dennis W - Macdonald, William - Jarosz, Andrew M
Diversity of secondary fungi inhabiting chestnut blight cankers caused by *Cryphonectria parasitica* in American chestnut (*Castanea dentata*) populations
- P5005 Sánchez, Romina Magalí* - Bianchinotti, María Virginia
Mitosporic fungi associated with native *Nothofagus* trees from the Andean-Patagonian Forests of Argentina
- P5006 Gonzalez, Maria C* - Glenn, Anthony - Hanlin, Richard T - Macias-Rubalcava, Martha L - Hernandez-Bautista, Blanca E - Anaya, Ana L
Acremonium camptosporum isolated as an endophyte of *Bursera simaruba* from Yucatan Peninsula, Mexico
- P5007 Skaltsas, Demetra* - Castlebury, Lisa A. - Chaverri, Priscila
Diversity of endophytes isolated from two tropical euphorbiaceous host genera: *Hevea* and *Micandra*
- P5008 González-Chávez, Ma. Del Carmen A. - Johnson, Lynnaun* - Sandona, Katrina - Carrillo-González, Rogelio - Mueller, Gregory M. - Porras-Alfaro, Andrea
Root-associated fungi in *Vanilla planifolia* from plantation systems in Mexico
- P7001 Lawrence, Brandy* - Walker, Donald M.
New species of fungi in the plant pathogenic family Gnomoniaceae (Ascomycota) from Japan.
- P7002 Almeida, Davi Augusto Carneiro De* - Gusmão, Luis Fernando Pascholati - Miller, Andrew N.
Biodiversity of Dothideomycetes and Sordariomycetes in the Brazilian Semi-Arid region
- P7003 Simmons, Rabern* - Groden, Eleanor
Hirsutella species are polyphyletic in Ophiocordycipitaceae
- CANCELLED** P7004 Bourret, Tyler* - Sitepu, Irnayuli - Schiff, Nathan - Ignatia, Laura - Kanti, Atit - Faulina, Sarah - Silaban, Sira - Nugroho, Agustinus - Chow, Elaine- Nguyen, Ngoc-Lien - Ubaidillah, Rosichon - Rizzo, David - Boundy-Mills, Kyria
Diversity of yeasts and filamentous fungi associated with wood-feeding beetles in Indonesia
- P7005 Deaver, Noland* - Porras-Alfaro, Andrea - Mccravy, Kenneth - Kuske, Cheryl R
A survey of entomopathogenic fungi from a temperate forest soil
- P7006 Hamm, Paris* - Tobias, Terri - Sandona, Katrina - Belnap, Jayne - Kuske, Cheryl R - Porras-Alfaro, Andrea
A study of diversity and abundance of desert keratinophilic fungi
- P7007 Belasen, Anat* - James, Timothy
Investigating the native skin mycoflora as a potential first line of defense against amphibian chytridiomycosis

- P7008 Jenkinson, Thomas* - Betancourt-Román, Clarisse M. - Belasen, Anat - Isenhardt, Lindsay G. - Marino, John A. - James, Timothy
Temporal patterns of *Batrachochytrium dendrobatidis* infection in the native amphibian community of the Edwin S. George Biological Reserve, Livingston County, Michigan
- P7009 Lazarus, Katy* - Smith, Matthew E. - Benny, Gerald L.
Systematics and ecology of *Syncephalis*, a genus of ubiquitous mycoparasites
- P7010 Raja, Huzefa A.* - Shearer, Carol A. - Miller, Andrew N - Tanaka, Kazuaki - Fournier, Jacques - El-Elimat, Tamam - Oberlies, Nicholas H.
Minutisphaeraceae (Dothideomycetes, Ascomycota), a new family of freshwater ascomycetes including two new species from North Carolina, USA
- P7011 Cheeke, Tanya E* - Phillips, Richard P - Fransson, Petra
Mycelial production and turnover differ in temperate hardwood forests dominated by arbuscular mycorrhizal trees versus ectomycorrhizal trees
- P7012 Nelsen, Donald J.* - Stephenson, Steven L.
Comparative analyses of ectomycorrhizal communities associated with *Quercus* and *Carya* in the Ozarks and Central Appalachian Mountains
- P7013 Hassett, Maribeth O.* - Fischer, Mark W. F. - Money, Nicholas P.
Horizontal versus vertical splash discharge of peridioles in bird's nest fungi

TUESDAY, JUNE 10TH

7:00 AM - 8:30 AM Continental Breakfast

Kellogg South Lobby

8:30 AM - 10:15 AM 7 Contributed Papers - Ecology/Pathology III

Kellogg Auditorium

Chair: Linda Henderson

- 8:30 7001 Henderson, Linda* - Gleason, Frank - Lilje, Osu - Pilgaard, Bo
Copper (II), Lead (II) and Zinc (II) are detrimental to the growth and reproduction of four zoosporic fungi from soils of NSW, Australia
- 8:45 7002 Padamsee, Mahajabeen* - Johansen, Renee - Bellgard, Stanley - Burns, Bruce - Hooker, John - Stuckey, Alex - Williams, Stephen
Characterization of the arbuscular mycorrhizal fungi colonizing roots and nodules of New Zealand kauri
- 9:00 7003 Jiang, Qianwei* - Kirk, William - Hanson, Linda
Short term elevated temperature exposure impacts growth of mycelium of *Cercospora beticola*
- 9:15 7004 Wright, Chris* - Paul, E. A. - Reddy, C. A. - Tiedje, J. M. - Trail, E. - Schmidt, T. M.
Species Richness and Lignolytic Potential of Decomposer Fungi Inhabiting Midwest Agricultural Soils
- 9:30 7005 Kepler, Ryan* - Rehner, Stephen
Assessment of *Metarhizium* community structure in soil ecosystems

8:30 AM - 10:15 AM 8 Contributed Papers - Systematics II

Kellogg Room 103 AB

Chair: Cathy Cripps

- 8:30 8001 Barge, Edward* - Cripps, Cathy
Systematics and biogeography of *Lactarius* in the Rocky Mountain alpine zone
- 8:45 8002 Larsson, Ellen - Cripps, Cathy* - Vauras, Jukka
Inocybe leiocephala Stuntz, a species with an intercontinental distribution range mainly in arctic, alpine and subalpine habitats - disentangling the *I. leiocephala-subbrunnea-catalaunica* complex
- 9:00 8003 Dee, Jaclyn M.* - Chang, Ying - Sekimoto, Satoshi - Berbee, Mary L.
Hyphally Inclined: Septins and the Search for an Ancient Morphogenetic Toolkit for Hyphal Growth
- 9:15 8004 Gazis, Romina* - Rees, Jonathan - Ree, Rick - Smith, Stephen - Hibbett, David
Lost in translation: challenges of transferring information from phylogenies into taxonomy
- 9:30 8005 White, Merlin
Recent advances in and current opportunities for Gut Fungi research with reflections on the Trichomycetes
- 9:45 8006 Demers, Mara B.* - Healy, Rosanne A. - Mclaughlin, David J.
Uncovering *Cortinarius* Diversity in Midcontinental North America

8:30 AM - 10:15 AM 9 Contributed Papers - Ecology/Pathology IV**Kellogg Room 104 AB****Chair: Ryoko Oono**

- 8:30 9001 Oono, Ryoko* - Lefèvre, Emilie - Simha, Anita - Lutzoni, François
Community species richness of foliar fungal endophytes decrease from seedling to adult pine needles
- 8:45 9002 Annis, Seanna* - Hopkins, Kathy - Calder, Beth - Perkins, Brian
Fungi contaminating bottled maple syrup
- 9:00 9003 Brown, Shawn* - Olson, Bradley - Jumpponen, Ari
Snow Algae Occurrence Elicits an Enrichment of Saprobic and Pathogenic Fungi
- 9:15 9004 Davis, William J.* - Edmonds, Jennifer W. - Longcore, Joyce E. - Antonetti, Jonathan - Letcher, Peter M. - Powell, Martha J.
Diversity of Early-diverging Fungal Lineages in Temporary Ponds
- 9:30 9005 Dean, Sarah* - Warnock, Daniel - Litvak, Marcy - Sinsabaugh, Robert
Drought Effects on Abiotic and Biotic Fungal Assembly Mechanisms in Root Associated Fungi

10:00 AM - 10:30 AM Coffee Break**Kellogg South Lobby****10:30 AM - 12:00 PM 10 Contributed Papers - Systematics III****Kellogg Auditorium****Chair: Huzefa A. Raja**

- 10:30 10001 Raja, Huzefa A.; Shearer, Carol A.; Miller, Andrew N; Tanaka, Kazuaki; Fournier, Jacques; El-Elimat, Tamam; Oberlies, Nicholas H..
Minutisphaeraceae (Dothideomycetes, Ascomycota), a new family of freshwater ascomycetes including two new species from North Carolina, USA.
- 10:45 10002 Schoch, Conrad L.* - Barbara, Robbertse
Remember my (fungal) name: Tying names to sequences and specimen data in GenBank
- 11:00 10003 Seelan, Jaya Seelan Sathiyaa* - Justo, Alfredo - Nagy, Laszlo - Hibbett, David - Hughes, Karen
Phylogenetic relationships and morphological evolution in *Lentinus*, *Polyporellus* and *Neofavolus*, emphasizing Southeast Asian taxa
- 11:15 10004 Spiegel, Frederick W.
Rethinking the origin of Eukaryotes

10:30 AM - 12:00 PM 11 Contributed Papers Ecology/Pathology V**Kellogg Room 103 AB****Chair: Lotus A. Lofgren**

- 10:30 11001 Lofgren, Lotus A.* - Lasin, Praphapan - Roelfs, Alan - Corby Kistler, H.
Fusarium Inhabitants of Asymptomatic Wild Grasses
- 10:45 11002 Osmundson, Todd* - Bergemann, Sarah - Garbelotto, Matteo
Biogeography and biodiversity assessment of macrofungi of Moorea, French Polynesia
- 11:00 11003 Malcolm, Katalin* - Dighton, John - Barkay, Tamar
The effects of mercury on fungal phylloplane communities
- 11:15 11004 Nguyen, Nhu H.* - Williams, Laura - Cavender-Bares, Jeannine - Gravel, Dominique - Meisser, Christian - Paquette, Alain - Reiche, Peter - Kennedy, Peter G.
Host tree diversity as drivers of ectomycorrhizal richness

11:30 11005 Walker, Allison K.* - Tanney, Joey - Frasz, Samantha L - Sumarah, Mark W. - Richardson, Susan N - Nsiama, Tienabe - Hirooka, Yuuri - Walker, Donald M. - Seifert, Keith - Miller, J David
Conifers and Chemistry: fungal endophytes of Canada's Acadian forest

10:30 AM - 12:00 PM 12 Contributed Papers - Genetics/Molecular Biology III Kellogg Room 104 AB

Chair: Melissa McCormick

10:30 12001 McCormick, Melissa* - Hauser, Wesley - Whigham, Dennis
Effects of bacteria within fungal hyphae on the function of orchid mycorrhizae

10:45 12002 Herr, Joshua* - Geib, Scott - Scully, Erin - Tien, Ming - Geiser, David M. - Hoover, Kelli - Carlson, John E.
The genome sequence of a *Fusarium solani* isolate from the gut of the Asian Longhorned Beetle provides insight into fungal-insect associations, supernumerary chromosomes, and the breakdown of lignocellulose

11:00 12003 Wang, Jie* - Jacobs, Janette - Rojas, Alejandro - Chilvers, Martin
Population genetic analysis indicates genetic diversity of *Fusarium virguliforme* within and between sampling locations

11:15 12004 Bunyard, Britt A
Amanita mycophagy among the "true flies" (Insecta: Diptera)

11:30 12005 Miller, Megan E. - Burchhardt, Kathleen M. - Cubeta, Marc A.*
Genetic diversity of *Monilinia vaccinii-corymbosi* sampled from apothecia and infected blueberry fruit

12:00 PM - 1:00 PM Lunch Big Ten Room C and Riverside

1:00 PM - 5:00 PM SY4 Symposium - Kellogg Auditorium

Ecological Consequences and Mechanisms of Fungal-Fungal Interactions

Chair: Peter G. Kennedy

1:00 SY4001 Bell-Dereske, Lukas* - Emery, Sarah
Interactions in the dunes: synergisms between foliar endophytes and arbuscular mycorrhizal fungi in an ecosystem engineering dune grass

1:30 SY4002 Boddy, Lynne
Fungal Wars: a primer of interspecific fungal interactions

2:00 SY4003 Kennedy, Peter G.* - Nguyen, Nhu - Cohen, Hannah
Missing checkerboards: an absence of competitive signal in *Alnus*-associated ectomycorrhizal fungal assemblages

2:30 SY4004 May, Georgiana* - Nelson, Paul
Fungal-fungal interactions structure populations and communities

3:00 PM - 3:30 PM Coffee Break Kellogg South Lobby

- 3:30 SY4006 Mujic, Alija Bajro* - Kennedy, Peter G. - Durall, Daniel M. - Spatafora, Joseph W.
On living with family: Factors affecting the vertical distribution of the ectomycorrhizal sister species *Rhizopogon vinicolor* and *Rhizopogon vesiculosus* in soil
- 4:00 SY4007 Song, Zewei* - Vail, Andrew - Sadowsky, Michael - Liew, Fengjin - Schilling, Jonathan
Fungal competition for wood in the face of endophytes: Glory and consequence
- 4:30 SY4008 Branco, Sara* - Bruns, Thomas D. - Singleton, Ian
Fungi at a small-scale: spatial zonation of fungal assemblages around single trees

1:00 PM - 4:30 PM SY5 Symposium -

Kellogg Room 103 AB

Molecular mechanisms of adaptation to host and environment

Chair: Richard Wilson

- 1:00 SY5001 Ridenour, John* - Smith, Jonathon - Hirsch, Robert - Horevaj, Peter - Kim, Hun - Sharma, Sandeep - Bluhm, Burton
UBL1 of *Fusarium verticillioides* links the N-end rule pathway to extracellular sensing and plant pathogenesis
- 1:30 SY5002 Marroquin-Guzman, Margarita R.* - Wilson, Richard
GATA-dependent glutaminolysis drives appressorium formation by the blast fungus *Magnaporthe oryzae*
- 2:00 SY5003 Liang, Xiaofei* - Liberti, Daniele - Li, Moyi - Kim, Young-Tae - Hutchens, Andrew - Wilson, Ron - Rollins, Jeffrey
Genetic Regulation of Oxalate Metabolism in *Sclerotinia sclerotiorum*

2:30 PM - 3:00 PM Coffee Break

Kellogg South Lobby

- 3:00 SY5005 Giraldo, Martha C.* - Dagdas, Yasin - Gupta, Yogesh - Mentlak, Thomas - Yi, Mihwa - Martinez-Rocha, Ana Lilia - Saitoh, Hiromasa - Terauchi, Ryohei - Talbot, Nicholas J. - Valent, Barbara
Two distinct mechanisms of *Magnaporthe oryzae* effector secretion for biotrophic invasion of rice
- 3:30 SY5006 Downes, Damien* - Davis, Meryl - Wong, Koon Ho - Hynes, Michael - Todd, Richard
Transcriptional regulation of NADP-GDH in *Aspergillus nidulans*: A key step in the nitrogen assimilation pathway

1:00 PM - 4:30 PM SY6 Symposium -

Kellogg Room 104 AB

Evolution of Hyphal Function and Development

Chair: Rosa Mouriño Perez and Brian D Shaw

- 1:00 SY6001 Trail, Frances* - Fellows, Kayla - Cubba, Caitlyn - Hoffman, Tiana - Wang, Zheng - Townsend, Jeffrey
Evolution of perithecium morphology through transcriptomics
- 1:30 SY6002 Lara-Rojas, F.* - Bartnicki-Garcia, S. - Mouriño-Pérez, Rosa R.
Proteins involved in early stages of endocytosis in *Neurospora crassa*
- 2:00 SY6003 Luo, Yongping - Xu, Jinrong*
The FgKin1 kinase localizes to the septal pore and differentially regulates the localization of two beta-tubulins in *Fusarium graminearum*

2:30 PM - 3:00 PM Coffee Break**Kellogg South Lobby**

- 3:00 SY6005 Schultzhause, Zachary
Membrane Trafficking and Hyphal Tip Growth in *Aspergillus nidulans*
- 3:30 SY6006 Castro-Longoria, Ernestina
The architecture and function of cell polarity components in filamentous fungi

6:00 PM - PM MSA Volunteer's Social**Kellogg Corniche Room****8:00-10:00 PM POSTER SESSION****Lincoln Room**

- P2001 Balkan, Mehmet A.* - Eppley, Sarah M. - Kennedy, Peter G. - Rosenstiel, Todd N.
Sex-specific fungal communities associated with the cosmopolitan dioecious moss, *Ceratodon purpureus*
- P2002 Vandorp, Carrie* - Beiler, Kevin - Durall, Daniel M.
Rhizopogon Sister Species Dominance Correlates to Forest Age Structure
- P2003 Rollins, Jeff* - Benny, Ulla - Chamuscho, Karen - Veluchamy, Selva
Photoresponses of apothecial stipes and photomorphogenesis of apothecial discs in *Sclerotinia sclerotiorum*
- P2004 Smith, Matthew E.* - Rollins, Jeffrey
How many fungi make sclerotia?
- P2005 Obase, Keisuke* - Douhan, Greg W. - Yosuke, Matsuda - Smith, Matthew E.
Culturable fungal biota growing on *Cenococcum* sclerotia in forest soil
- P2006 Haridas, Sajeet* - Riley, Robert - Salamov, Asaf - Kurtzman, Cletus P. - Blackwell, Meredith - Grigoriev, Igor - Jeffries, Thomas W.
Evolutionary history of Ascomyceteous Yeasts
- P2007 Stewart, Jane* - Brewer, Marin
Drivers of divergence and host range expansion in a fungal species complex pathogenic to cucurbits and papaya
- P2008 Scharnagl, Klara* - Prather, Alan
Do Lichens follow the Latitudinal Diversity Gradient? A Review
- P2009 Romero-Olivares, Adriana Lucia* - Taylor, John W - Treseder, Kathleen
Can fungi adapt to global warming? *Neurospora discreta* holds the answer
- P2010 Robinson, Aaron J* - Hutchinson, Miriam - Natvig, Donald O.
A Genetic Analysis of Differences in Optimal and Maximal Growth Temperatures among Mesophilic and Thermophilic Members of the Sordariales
- P2011 Hutchinson, Miriam* - Powell, Amy J. - Tsang, Adrian - Berka, Randy M. - Grigoriev, Igor - Barry, Kerrie - Natvig, Donald O.
What genome sequences from members of the Chaetomiaceae tell us about the evolution of reproductive systems and thermophily
- P2012 Martin, W. Wallace* - Warren, Alyssa M.
A New Basal Oomycete with Isogamous Sexual Reproduction

- P4001 Uehling, Jessie K* - Lee, Samantha - Adams, Catharine - Maltz, Mia Rose - Haelewaters, Danny
MSA Student Section 2014 - Fungal functional traits
- P4002 Presley, Gerald* - Schilling, Jonathan S.
Probing the *Postia placenta* secretome in early stages of wood decay
- P4003 Zhang, Jiwei* - Presley, Gerald - Song, Zewei - Oliver, Jason P. - Schilling, Jonathan S.
Partitioning transcriptions of the oxidative enzymes and cellulase reveals the spatially control mechanisms of fungi during wood degradation
- P4004 Morgan, Benjamin* - Egerton-Warburton, Louise
High-throughput sequencing reveals diverse fungal communities associated with lignin decomposition in seasonally dry forests of the Yucatan Peninsula
- P4005 Mickelson, Emily
Investigating the Relationships between Varying Filter Media and Microbial Populations in Biofiltration Processes
- P4006 Mougharbel, Lina* - Ostadjoo, Saghayegh - Lagu, Sonali - Martin, Vincent - Powlowski, Justin - Storms, Reginald
Developing Consolidated Bioprocessing Competent *Saccharomyces cerevisiae* through the Optimized Expression of Fungal Cellulases
- P4007 Oliver, Jason P.* - Janni, Kevin A. - Schilling, Jonathan S.
Developing a qPCR approach to monitor fungal dominance in biofilms colonizing wood chip biofilters
- P4008 Kennedy, Zachary* - Volk, Thomas
Mycological Applications to Combat Deforestation in the Amazon
- P6001 Bokati, Deepak* - Herrera, Jose - Poudel, Ravin
Characterization of root fungal endophyte community of cereal grains using 454 pyrosequencing techniques.
- P6002 Gdanetz Maccready, Kristi* - Trail, Frances
The distribution of microbes on wheat plants and their impacts on the life cycle of *Fusarium graminearum*
- P6003 Johannsen, Aleshia G* - Almatruk, Maryam A - Belnap, Jayne - Kuske, Cheryl R - Porras-Alfaro, Andrea
Diversity and Distribution of Yeasts in Arid Grassland Soils
- P6004 Sandona, Katrina* - Tobias, Terri - Kuske, Cheryl R - Belnap, Jayne - Porras-Alfaro, Andrea
Distribution of Dark Septate Fungi in Different Desert Soil Microenvironments
- P6005 Thomas, Daniel* - Vandegrift, Roo - Ludden, Ashley - Carroll, George - Roy, Bitty
Fungal Foliar Endophyte Dispersal: Testing the Foraging Ascomycete Hypothesis
- P6006 Shymanovich, Tatsiana* - Saari, Susanna - Charlton, Nikki D. - Young, Carolyn A. - Cech, Nadja - Faeth, Stanley H.
Alkaloid variation among epichloid endophytes of sleepygrass (*Achnatherum robustum*): Consequences insect herbivore resistance
- P6007 Springer, Joshua* - Trail, Frances
Identification of natural compounds that limit aflatoxin production in *Aspergillus parasiticus*
- P6008 Tournas, V.h.* - Niazi, N.s. - Katsoudas, E.j.
Fungal profiles of selected grains and grain products from U.S. retail.

- P6009 Imboden, Lori* - Afton, Drew - Trail, Frances
Fusarium graminearum ingress of the barley palea via phytoliths
- P6010 Habibi, Azadeh - Frederick, Zachary - Koberstein, Staci - Liu, Lu - Nazarov, Taras - Salamone, Amy - Wheeler, David - Carris, Lori* - Peever, Tobin
How many species of *Ascochyta* cause *Ascochyta* blights of cultivated legumes and their wild relatives?
- P6011 McTavish, Christine Kay* - Fulbright, Dennis W - Jarosz, Andrew M
Emerging epidemic: correlation of *Phomopsis* spp. with spruce decline in the Lower Peninsula of Michigan

WEDNESDAY, JUNE 11TH

7:00 AM - 8:00 AM Continental Breakfast

Kellogg South Lobby

8:00 AM - 9:00 AM MSA Business Meeting

Kellogg Auditorium

9:00 AM - 10:00 AM S2 Special Lecture - MSA Presidential Address

Kellogg Auditorium

Chair: D. Jean Lodge

10:00 AM - 10:30 AM Coffee Break

Kellogg South Lobby

10:30 AM - 12:00 PM 13 Contributed Papers - Ecology/Pathology VII

Kellogg 104 AB

Chair: Daniel Durall

- 10:30 0001 Scholl, Chrysal - Stone, Morgan - Tantikachornkiat, Mansak - Neuner, Marissa - Morgan, Sydney-Durall, Daniel M.*
Yeast diversity and composition in spontaneous fermentations of two varieties at multiple Canadian wineries
- 10:45 0002 Oliver, Alena* - Callahan Jr., Mac - Brown, Shawn - Jumpponen, Ari
Soil community responses to recurring prescribed fires in yellow pine forests: effects of fire intervals and season
- 11:00 0003 Nagy, Laszlo* - Hibbett, David
Convergent regulatory evolution underlies the repeated appearance of yeast-like fungi
- 11:15 0004 Adongbede, Erute Magdalene* - Akinyeke, Oluwanifemi
A study of the degradative potential of moulds isolated from the rhizosphere of three weeds (*Commelina diffusa*, *Aspilia africana* and *Vernonia cinerea*)
- 11:30 0005 Demmers, Jill* - Crouch, Jo Anne - Castlebury, Lisa A.
Real-time PCR as a tool for identification of rust specimens
- 11:45 0006 Vandegrift, Roo* - Blaser, Wilma - Campos-Cerda, Felipe - Heneghan, Allison - Carroll, George - Roy, Bitty
Mixed fitness effects of grass endophytes modulate impact of enemy release and rapid evolution in an invasive grass

10:30 AM - 12:00 PM 14 Contributed Papers - Systematics IV

Kellogg Room 103 AB

Chair: Yuuri Hirooka

- 10:30 14001 Hirooka, Yuuri* - Tanney, Joey - Nguyen, Hai - Seifert, Keith
A proposal for a new family in the Onygenales for the genus *Spiromastix*
- 10:45 14002 Hustad, Vincent Patrick* - Miller, Andrew N
Molecular systematics of Geoglossomycetes: genus and species concepts

- 11:00 14003 Justo, Alfredo* - Hibbett, David
The genus *Pluteus* (Agaricales, Basidiomycota) in North America, how close are we to a continental Mycoflora?
- 11:15 14004 Knudson, Alicia* - Hibbett, David
Fruiting Body Shape in Gomphales and Clarification of *Ramaria*
- 11:30 14005 Harrower, Emma* - Matheny, Brandon.
Evolution and phylogeography of the *Cortinarius violaceus* group in Australasia and the Americas.

10:30 AM - 12:00 PM 15 Contributed Papers - Ecology/Pathology VI

Kellogg Auditorium

Chair: Cedar Hesse

- 10:30 15001 Hesse, Cedar N.* - Vuyisich, Momochillo - Gallegos-Graves, La Verne - Challacombe, Jean F. - Ticknor, Lawrence O. - Zak, Donald R. - Kuske, Cheryl R.
Metatranscriptomes from maple forest leaf litter reveal decreased community expression of fungal lignocellulytic enzymes under elevated atmospheric N deposition
- 10:45 15002 Jusino, Michelle Alice* - Lindner, Daniel L. - Skelton, James - Banik, Mark T. - Walters, Jeffrey R.
A successional partnership: the fungal communities associated with a cavity-excavating woodpecker
- 11:00 15003 Hiscox, Jennifer* - Savoury, M - Rogers, H - Muller, C - Boddy, Lynne
What is present affects what is to come: fungal community dynamics in decaying wood
- 11:15 15004 Kennedy, Peter G.
Unlocking environmental keys to host specificity: differential tolerance of acidity and nitrate by *Alnus*-associated ectomycorrhizal fungi

1:00 PM - 4:30 PM SY7 Symposium - Emerging infectious diseases by zoosporic parasites Kellogg Auditorium

Chair: Frank Gleason; Gerard Adams

- 1:00 SY7001 Natvig, Don
The Cantino and Emerson Legacies in Experimental Mycology
- 1:30 SY7002 Chang, Ying* - Sekimoto, Satoshi - Wang, Sishuo - Spatafora, Joseph W. - Berbee, Mary L.
Early diverging fungi and evolutionary origins of enzymes for breakdown of the pectins in plant cell walls
- 2:00 SY7003 James, Timothy
Deciphering the current amphibian chytridiomycosis panzootic using genomics

2:30 PM - 3:00 PM Coffee Break

Kellogg South Lobby

- 3:00 SY7005 Sain, Divya - Melida, Hugo - Bulone, Vincent - Stajich, Jason*
Fungal cell wall evolution reconstructed from genomes of early diverging fungi
- 3:30 SY7006 Gleason, Frank
Resource seeking strategies of zoosporic true fungi

1:00 PM - 4:30 PM SY8 Symposium - Sequence-based Identification of Fungi Kellogg Room 103 AB

Chair: David M. Geiser; Andrea Porras-Alfaro (Check announcement board or on-line for time changes!)

- 1:00 SY8001 Hibbett, David S.
Challenges and opportunities in sequence-based identification and classification of fungi
- 1:30 SY8002 Geiser, David M.
Practice makes... progress. Successes and challenges in sequence-based species recognition, taxonomy and identification in *Fusarium*
- 2:00 SY8003 Kõljalg, Urmas* - Abarenkov, Kessy - Nilsson, R. Henrik - Larsson, Henrik
At species crossroads

2:30 PM - 3:00 PM Coffee Break Kellogg South Lobby

- 3:00 SY8005 Porras-Alfaro, Andrea* - Liu, Kuan-Liang - Xie, Gary - Cole, James R. - Kuske, Cheryl R
RDP Classifier: ITS and LSU Automated Fungal Identification
- 3:30 SY8006 Öpik, Maarja
MaarjAM Database: Sequence-based identification of arbuscular mycorrhizal fungi

1:00 PM - 4:30 PM SY9 Symposium - Lignocellulose Deconstruction by Fungi Kellogg Room 104 AB

Chair: Jonathan Walton

- 1:00 SY9001 Baker, Scott
Molecular tools for understanding biomass degradation
- 1:30 SY9002 Cullen, Daniel
Mechanisms of lignocellulose degradation inferred from recent genome investigations of wood decay fungi
- 2:00 SY9003 Riley, Robert* - Salamov, Asaf - Brown, Daren W - Nagy, Laszlo - Floudas, Dimitrios - Held, Benjamin - Levasseur, Anthony - Lombard, Vincent - Morin, Emmanuelle - Otilar, Robert-Lindquist, Erika - Sun, Hui - Labutti, Kurt - Schmutz, Jeremy - Jabbour, Dina - Luo, Hong - Baker, Scott - Pisabarro, Antonio - Walton, Jonathan - Blanchette, Robert - Henrissat, Bernard - Martin, Francis - Cullen, Daniel - Hibbett, David S. - Grigoriev, Igor
Extensive sampling of basidiomycete genomes demonstrates inadequacy of the white rot/brown rot paradigm for wood decay fungi

2:30 PM - 3:00 PM Coffee Break Kellogg South Lobby

- 3:00 SY9005 Xiong, Yi* - Glass, Louise
Exploring plant cell wall degradation using *Neurospora crassa*
- 3:30 SY9006 Walton, Jonathan* - Ye, Zhuoliang - Zheng, Yun - Jabbour, Dina - Storms, Reginald - Borrusch, Melissa
Mining fungal genomic diversity for novel enzymes for biomass deconstruction

6:00 PM - 10:00 PM Kellogg Big Ten Room C
MSA Banquet & Student Presentation Awards & Auction

THURSDAY, JUNE 12TH

8:00 AM - 5:00 PM WS1 Workshop - NSF - Sequence-based Identification of Fungi

Chair: David M. Geiser; Andrea Porras-Alfaro

- 8:00 NSF - Sequence-based Identification of Fungi - Closed Session

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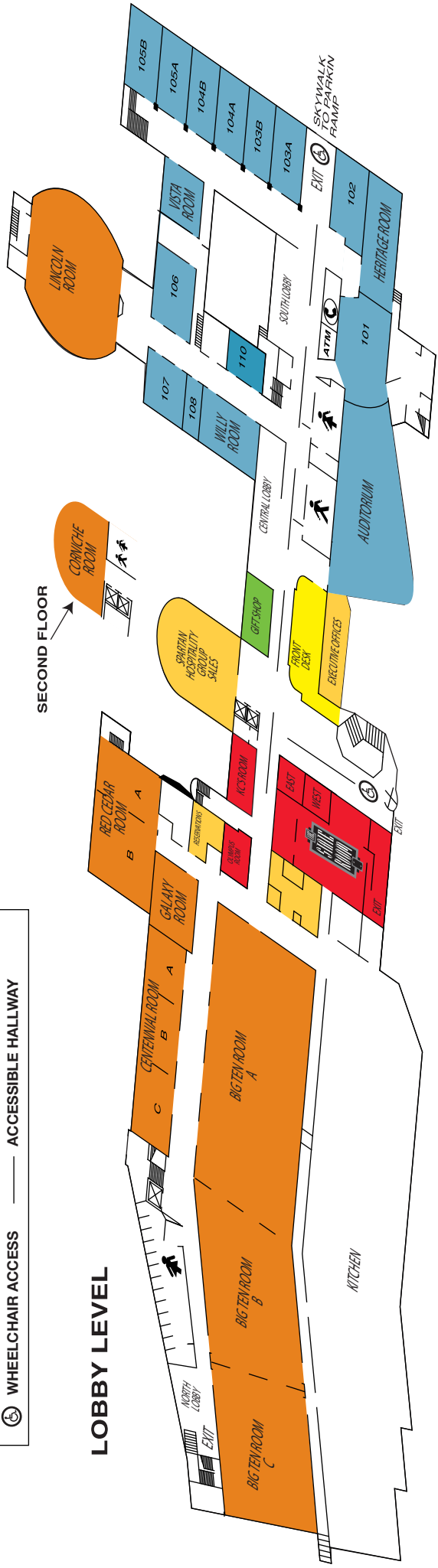
Notes

Notes

Notes

	GUEST AMENITIES
	MEETING ROOMS
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	RESTAURANT / PRIVATE DINING ROOMS
	The SCHOOL OF HOSPITALITY BUSINESS
	OFFICES
	FRONT DESK
	MENS ROOM
	WOMENS ROOM
	ELEVATOR
	PHONES
	WHEELCHAIR ACCESS
	ACCESSIBLE HALLWAY

LOBBY LEVEL



SECOND FLOOR



GARDEN LEVEL

