7th International Coccidioimycosis Symposium

August 10-13, 2017
Li Ka Shing Center for Learning and Knowledge, Stanford, CA
Sponsored by the Stanford University School of Medicine

Dear Course Participants,

On behalf of Course Directors Stan Deresinski, MD and Neil M. Ampel, MD, it is our pleasure to welcome you to the 7th International Coccidioimycosis Symposium, a Continuing Medical Education Conference presented by the Department of Medicine, the Division of Infectious Diseases & Geographic Medicine at the Stanford University School of Medicine.

STATEMENT OF NEED
This CME conference seeks to fulfill the need in practicing health care professionals, particularly, physicians, clinical microbiologists, researchers, nurses, nurse practitioners, pharmacists, and veterinarians to improve the fund of knowledge in the prevention and management of coccidioidomycosis. The conference takes place approximately once in a decade, and will cover genomics, ecology, epidemiology, diagnosis, clinical presentation, treatment as well as pediatric and veterinary aspects of coccidioidomycosis, presented by experts in their field. The conference includes lectures with case studies, workshop sessions, panel discussion and an opportunity to engage in Q&A sessions with faculty.

TARGET AUDIENCE
This international program is designed to meet the educational needs of Health care professionals specializing in prevention and management of Coccidiodomycosis including:

- Physicians in all specialties
- Clinical Microbiologists
- Researchers
- Registered Nurses
- Nurse Practitioners
- Pharmacists
- Veterinarians
LEARNING OBJECTIVES
At the conclusion of this activity, participants should be able to:

- Define the sites where coccidioides may be found in the environment
- Recognize the genomic tests for speciation and identification of coccidioidomycosis causative agents
- Discuss the recent increases in coccidioidomycosis in certain geographic areas
- Describe environmental risk factors for acquiring coccidioidomycosis
- Identify patient risk factors for increased severity for coccidioidomycosis
- Evaluate the various tests to diagnose and monitor coccidioidomycosis and select the best method for your patient
- Manage patients with coccidioidomycosis by recognizing how therapy may differ among various patient risk groups and taking into account the available antifungal agents and their use
- Discuss how certain immune deficits and mutations are related to increased severity of coccidioidomycosis
- Recognize how coccidiodes may be a pathogen rather than saprophyte

Take this opportunity to network with colleagues and to spend time with the faculty. Please contact us if we can be of assistance.

Your Stanford Center for Continuing Medical Education Conference Team,

Ginny Jacobs, MEd, MLS, CHCP
CME Conference Manager (interim)
P: (650) 736-1896
E: ginnyj@stanford.edu

Yolanda Cervantes
CME Conference Coordinator
P: (650) 724-9549
E: ycervant@stanford.edu

Stanford Center for Continuing Medical Education
1520 Page Mill Road • Palo Alto, CA 94304-5190
Telephone: 650-497-8554 • Fax: 650-497-8585
Email: StanfordCME@stanford.edu
FACULTY

COURSE DIRECTORS & PLANNING COMMITTEE

Stan Deresinski, MD  
Course Director/Content Reviewer  
Clinical Professor of Medicine  
Stanford University

Herbert Boro, MD, FACP  
Planner  
Infectious Disease Clinician, retired  
Program Chair, Cocci Study Group  
Fresno, CA

Neil M. Ampel, MD  
Co-Course Director  
Professor of Medicine  
University of Arizona

Karl V. Clemons, PhD  
Planner  
Senior Research Scientist (retired)  
California Institute for Medical Research

FACULTY

Cody Alcott, DVM, DACVIM  
Medical Director, Neurology & Neurosurgery  
Veterinary Specialty Center of Tucson

Antonino Catanzaro, MD  
Professor of Medicine  
University of California at San Diego

Neil M. Ampel, MD  
Professor of Medicine  
University of Arizona

Vishnu Chaturvedi, PhD  
Director of the Microbial Disease Laboratory, California Department of Public Health

Eduardo G. Arathoon-Peréz, MD  
Asociación de Salud Integral  
Guatemala City, Guatemala

Tom Chiller, MD, MPHTM  
Chief, Mycology Diseases Branch  
Division of Foodborne, Waterborne, and Environmental Diseases  
National Center for Emerging and Infectious Zoonotic Diseases  
Centers for Disease Control and Prevention, (Non-CME Speaker)

Wassim M. Ballan, MD  
Clinical Assistant Professor  
University of Arizona College of Medicine, Phoenix

Nancy A. Chow, PhD  
Mycotic Diseases Branch  
Centers for Disease Control and Prevention

Bridget Barker, PhD  
Center Director and Assistant Professor  
Northern Arizona Center For Valley Fever Research TGen North

Karl V. Clemons, PhD  
Senior Research Scientist (retired)  
California Institute for Medical Research

Janis Blair, MD  
Professor of Medicine  
Mayo Clinic Arizona

Gail Sondermeyer Cooksey, MPH  
Infectious Diseases Branch  
California Department of Public Health

Cristina Canteros, MD  
Jefa de Servicio Micosis Profundas  
Departamento Micología  
INEI-ANLIS “Dr Carlos G. Malbrán”  
Buenos Aires, Argentina
FACULTY CONTINUED…

Marie A. de Perio, MD
National Institute for Occupational Safety and Health
Centers for Disease Control and Prevention

Stan Deresinksi, MD
Clinical Professor of Medicine
Stanford University

Autumn P. Davidson, DVM
Staff Veterinarian
School of Veterinary Medicine
University of California at Davis
(Non-Speaking Moderator)

Dennis M. Dixon, PhD
Chief, Bacterial and Mycology Branch
Division of Microbiology and Infectious Disease
National Institute of Allergy and Infectious Diseases
National Institutes of Health
(Non-CME Speaker)

David Engelthaler, PhD
Director of Programs and Operations
TGen North

Joshua Fierer, MD
Professor of Medicine
University of California at San Diego

Francesca Geertsma, MD
Clinical Associate Professor of Pediatrics, Stanford University
(Non-Speaking Moderator)

Thomas E. Grys, PhD
Assistant Professor of Laboratory Medicine and Pathology
Mayo Clinic Arizona

Susan E. Hoover, MD, PhD
Infectious Diseases Specialist
Sanford Health

Amy Hsu, BA
Biologist, Laboratory of Clinical Infectious Diseases
National Institute of Allergy and Infectious Diseases (NIAID)
National Institutes of Health (NIH)

Chiang-Yu Hung, PhD
Assistant Professor of Research
University of Texas at San Antonio

Royce Johnson, MD, FACP
Chief, Infectious Disease
Kern Medical

Ken Komatsu, MPH
Epidemiologist
Arizona Department of Health Services

Rafael Laniado-Laborín, MD, MPH
Clínica de Tuberculosis
Hospital General de Tijuana, ISESA
Tijuana, Baja California, Mexico

James S. Lewis II, PharmD
Clinical Pharmacist
Oregon Health and Sciences University

Anastasia P. Litvintseva, PhD
Mycotic Diseases Branch
National Center for Emerging and Zoonotic Infectious Diseases
Centers for Disease Control and Prevention

James M. McCarty, MD
Clinical Professor of Pediatrics
Stanford University
FACULTY CONTINUED…

Orion Z. McCotter, MPH
Mycotic Diseases Branch
Division of Foodborne, Waterborne, and Environmental Diseases
National Center for Emerging and Zoonotic Infectious Diseases
Centers for Disease Control and Prevention

Stephen A. McCurdy, MD, MPH
Director, UC Davis Master of Public Health Program
Vice Chair and Professor, Department of Public Health
University of California at Davis

Laurence F. Mirels, MD
Physician, Division of Infectious Disease Internal Medicine, Santa Clara Valley Medical Center

Janet Mohle-Boetani, MD, MPH
Chief, Public Health Branch
California Correctional Health Care Services

Raquel Muñiz-Salazar, PhD
Professor, Molecular Epidemiology of Infectious Diseases
Laboratory of Epidemiology and Molecular Ecology
Universidad Autonoma de Baja California
Ensenada, Baja California, Mexico

David E. Nix, PharmD
Professor, Pharmacy Practice and Science, College of Pharmacy,
University of Arizona

Hanna Oltean, MPH
Zoonotic Disease Epidemiologist
Washington State Department of Health

Marc J. Orbach, PhD
Professor, Plant Sciences
University of Arizona

Demosthenes Pappagianis, MD, PhD
Professor of Microbiology and Immunology, University of California at Davis

Thomas F. Patterson, MD, FACP, FIDSA
Chief, Division of Infectious Diseases
Professor of Medicine
Director, San Antonio Center for Medical Mycology
The University of Texas Health Science Center at San Antonio

Luís Adrian Rendón-Pérez, MD, PhD
Professor, Department of Medicine
Autonomous University of Neuvo Léon
Neuvo Léon, Mexico

Meritxell Riquelme, PhD
Research Professor, Department of Microbiology
Center for Scientific Research and Higher Education of Ensenada (CICESE), Ensenada, Baja California

David S. Roos, PhD
E. Otis Kendall Professor of Biology
University of Pennsylvania

Michael Saubolle, PhD
Clinical Associate Professor
University of Arizona College of Medicine – Phoenix

Lisa Shubitz, DVM
Associate Research Professor
School of Animal and Comparative Biomedical Sciences, University of Arizona
FACULTY CONTINUED…

Anita Sil, MD, PhD  
Professor of Microbiology and Immunology, University of California at San Francisco

Carol Sipan, RN, MPH, PhD  
School of Social Sciences, Humanities and Arts, University of California at Merced

David A. Stevens, MD  
Professor of Medicine  
Stanford University

Rebecca Sunenshine, MD  
Medical Director  
Disease Control Division  
Maricopa County Department of Public Health

Jane E. Sykes, BVSc (Hons), PhD, DACVIM (SAIM)  
Director, Small Animal Clinical Services  
School of Veterinary Medicine  
University of California Davis

John Taylor, PhD  
Professor of Plant and Microbial Biology, University of California at Berkeley

George Thompson III, MD  
Associate Professor of Medicine  
University of California at Davis

Jason A. Wilkin, PhD, MPH  
Epidemiologist  
California Department of Public Health

Duc J. Vugia, MD, MPH  
Chief, Infectious Diseases Branch  
California Department of Public Health

ABSTRACT PROGRAM COMMITTEE FOR THE COCCI STUDY GROUP
61ST ANNUAL MEETING

Bridget Barker, PhD  
Janis Blair, MD  
Herbert Boro, MD, FACP - Abstract Program Committee Chair  
Karl V. Clemons, PhD  
Autumn P. Davidson, DVM  
Susan E. Hoover, MD, PhD  
Orion Z. McCotter, MPH  
Lisa Shubitz, DVM  
Rebecca Sunenshine, MD
COMMERCIAL INTEREST AFFILIATIONS
DISCLOSURE TO LEARNERS

COMMERCIAL INTEREST AFFILIATIONS AND DISCLOSURE TO LEARNERS

In accordance with the standards of the Accreditation Council for Continuing Medical Education (ACCME), all persons who can influence CME content must disclose their financial relationships with commercial interests providing products or services that will be discussed. If they have no relevant financial relationships, persons who can influence CME content must specify that they have nothing to disclose.

PLANNING COMMITTEE MEMBERS

The following planning committee members have indicated they have no relationships with industry to disclose relative to the content of this CME activity.

Stan C. Deresinski, MD (Content Reviewer)

Herbert Boro, MD, FACP

Karl V. Clemons, PhD

The following planning committee member has indicated he does have relationships with industry to disclose relative to the content of this CME activity.

Neil M. Ampel, MD Contracted Research: Nielsen Biosciences

FACULTY and GUEST SPEAKERS

The following speakers/moderators/panelists have indicated they have no relationships with industry to disclose relative to the content of this CME activity.

Cody Alcott, DVM, DACVIM
Neil M. Ampel, MD
Wassim M. Ballan, MD
Bridget Barker, PhD
Janis Blair, MD
Cristina Canteros, MD
Antonino Catanzaro, MD
Vishnu Chaturvedi, PhD
Nancy A. Chow, PhD
Karl V. Clemons, PhD
Gail Sondermeyer Cooksey, MPH
Marie A. de Perio, MD
Stan Deresinksi, MD

Autumn P. Davidson, DVM
David Engelthaler, PhD
Joshua Fierer, MD
Francesca Geertmsa, MD
Thomas E. Grys, PhD
Susan E. Hoover, MD, PhD
Amy Hsu, BA
Chiung-Yu Hung, PhD
Royce Johnson, MD, FACP
Ken Komatsu, MPH
Rafael Laniado-Laborín, MD, MPH
Anastasia P. Litvintseva, PhD
James M. McCarty, MD
The following speakers/moderators/panelists have indicated they do have relationships with industry to disclose relative to the content of this CME activity.

**Eduardo G. Arathoon-Peréz, MD**
Fees for speakers’ bureaus: **Gilead**

**James S. Lewis II, PharmD**
Advisory Board: **Merck**

**Thomas F. Patterson, MD, FACP, FIDSA**
Contracted Research: **NIH Contract Support, (F2G, Viamet, Cidara, VFS)**
Consulting Fees: **Basilea, Gilead, Merck, Scynexis, Toyama Astellas**

**David A. Stevens, MD**
Contracted Research: **Astellas**

**EDUCATIONAL GRANTS**
COMMERCIAL SUPPORT ACKNOWLEDGEMENT

This CME activity is supported in part by educational grants from DxNA LLC and IMMY.
GENERAL INFORMATION

Conference registration desk hours:

- August 10\textsuperscript{th} from 8:00AM – 5:30PM
- August 11\textsuperscript{th} from 7:00AM – 5:30PM
- August 12\textsuperscript{th} from 7:00AM – 5:00PM
- August 13\textsuperscript{th} from 7:30AM – 12:00PM

HOW TO RECEIVE CME CREDIT

The ACCME requires that CME Providers have a mechanism in place to verify physician participation in CME activities. For this conference, please be certain to sign in each morning at the Registration Desk. Thank you!

COURSE EVALUATION & CME CERTIFICATES

Participants will receive an email one business day after the course with a link to an online evaluation survey. Please complete the survey within 1 week from receipt of this email. Upon completion of the online evaluation survey and attesting to the number of hours of participation in the educational activity, you can download a printable certificate for your records.

ACCREDITATION

The Stanford University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

CREDIT DESIGNATION

The Stanford University School of Medicine designates this live activity for a maximum of 24.5 \textit{AMA PRA Category 1 Credits\textsuperscript{TM}}. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The American Nurses Credentialing Center (ANCC) accepts \textit{AMA PRA Category 1 Credit\textsuperscript{TM}} from organizations accredited by the ACCME. Please check with your state’s credentialing board for their requirements.

ACCESS ELECTRONIC PRESENTATION SLIDES

You may access PDF versions of the presentations of participating faculty via online. To access these files, please go to the following website \texttt{http://2shoesapp.com/cocci}

SECURITY STATEMENT

Please do not leave any personal belongings unattended in the meeting room during breaks. We are not responsible for lost or stolen items.

CULTURAL AND LINGUISTIC COMPETENCY

California Assembly Bill 1195 requires continuing medical education activities with patient care components to include curriculum in the subjects of cultural and linguistic competency. It is the intent of the bill, which went into effect July 1, 2006, to encourage physicians and surgeons, CME providers in the State of California and the Accreditation Council for Continuing Medical Education to meet the cultural and linguistic concerns of a diverse patient population through appropriate professional development. The planners and speakers of this CME activity have been encouraged to address cultural issues relevant to their topic area.
The Stanford University School of Medicine Multicultural Health Portal also contains many useful cultural and linguistic competency tools including culture guides, language access information and pertinent state and federal laws. You are encouraged to visit the portal: https://lane.stanford.edu/portals/cultural.html
# Program (Subject to change)

## Thursday, August 10

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>8:00 – 9:00 AM</td>
<td>Breakfast and Registration</td>
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| 9:00 – 11:00  | **Workshop 1:** *(Room# Munzer Auditorium)*  
Genetic Manipulation and Isolation of Coccidioides  
*Bridget Barker, Nancy Chow, Marc Orbach*  
Accessing and Interrogating Coccidioides Datasets via FungiDB:  
What You Need to Know and What You Don’t:  
*David S. Roos* |
| 9:00 – 11:00  | **Workshop 2:** *(Room# Alway M106)*  
Clinical Laboratory Safety  
*Vishnu Chaturvedi and Karl Clemons* |
| 9:00 – 11:00  | **Workshop 3:** *(Room# Berg Hall A&B)*  
Understanding the Diagnostics of Coccidioidomycosis  
*Thomas Grsy, Demosthenes Pappagianis, and Mike Saubolle* |
| 11:00 – 12:30 PM| Lunch                                                                                       |
| 12:30 – 1:00  | Opening of Conference:  
• Introduction: Neil M. Ampel  
A History of Coccidioidomycosis:  
*Stan Deresinski* |
| 1:00 – 3:00   | **Fungal Ecology & Genomics**  
Moderator: Bridget Barker  
• Coccidioides Population Genomics:  
*Bridget Barker*  
• Analysis of Soils in Washington State and Oregon:  
*Ana Litvintseva*  
• Coccidioides in Soil and Rodents in Mexico:  
*Meritxell Riquelme*  
• Designing and Mining (Pathogen) Informatics Resources: From Genomics to Epidemiology:  
*David S. Roos* |
| 3:00 – 3:30   | Break                                                                                       |
| 3:30 – 5:30   | **Clinical Presentations of Coccidioidomycosis**  
Moderators: Susan Hoover and Rafael Laniado  
Panel:  
Janis Blair, Antonino Catanazaro, Royce Johnson, Laurence F. Mirels |
<p>| 5:30 PM       | Adjourn                                                                                     |</p>
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<tr>
<th>Time</th>
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<tr>
<td>7:00 – 8:00 AM</td>
<td>Breakfast</td>
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<tr>
<td>8:00 – 10:00</td>
<td>Epidemiology and Public Health</td>
<td>Moderators: Orion McCotter and Rebecca Sunenshine</td>
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<td></td>
<td>• Overview of the National Epidemiology:</td>
<td>Orion McCotter</td>
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<td></td>
<td>• Coccidioidomycosis in Arizona:</td>
<td>Ken Komatsu</td>
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<td></td>
<td>• Coccidioidomycosis in California:</td>
<td>Gail Sondermeyer Cooksey; Duc Vugia</td>
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<td>• Coccidioidomycosis in Washington State:</td>
<td>Hanna Oltean</td>
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<td>• Coccidioidomycosis in California Prison System:</td>
<td>Janet Mohle-Boetani</td>
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<td></td>
<td>• Genomic Epidemiology:</td>
<td>David Engelthaler</td>
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<tr>
<td>10:00 – 10:30</td>
<td>Break and Poster 1 – Viewing (No CME)</td>
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<tr>
<td>10:30 – 12:30 PM</td>
<td>Treatment and Pharmacology</td>
<td>Moderator: George Thompson III</td>
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<td></td>
<td>• New Therapies for Coccidioidomycosis:</td>
<td>Thomas Patterson</td>
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<td>• Pharmacology of Newer Antifungals:</td>
<td>James Lewis</td>
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<td>• Adverse Effects, Drug Interactions and Dosing Issues:</td>
<td>David Nix</td>
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<td>12:30 – 1:30</td>
<td>Lunch, Poster 1 - Viewing (No CME)</td>
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<tr>
<td>1:30 – 3:30</td>
<td>Pediatric Coccidioidomycosis</td>
<td>Moderators: Francesca Geertsma and James McCarty</td>
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<td>• Coccidioidomycosis: The Pediatric Experience in Phoenix, AZ:</td>
<td>Wassim Ballan</td>
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<td>• Coccidioidomycosis in Children in California:</td>
<td>Gail Cooksey</td>
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<td>3:30 – 4:00</td>
<td>Break and Poster 1 – Viewing (No CME)</td>
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<tr>
<td>4:00 – 5:30</td>
<td>Veterinary Coccidioidomycosis</td>
<td>Moderators: Autumn Davidson and Lisa Shubitz</td>
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<td>• Treatment of Coccidioidomycosis in Dogs and Cats:</td>
<td>Lisa Shubitz</td>
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<td>• CNS manifestations of Coccidioidomycosis in Dogs and Cats:</td>
<td>Cody Alcott</td>
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<td>• Comparative Aspects of Canine and Human Coccidioidomycosis:</td>
<td>Jane Sykes</td>
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<td>5:30 PM</td>
<td>Adjourn</td>
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<tr>
<td>6:00 – 7:30</td>
<td>Reception and Awards Ceremony (additional fee required)</td>
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**Saturday, August 12**

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<tr>
<th>Time</th>
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<tr>
<td>7:00 – 8:00 AM</td>
<td>Breakfast</td>
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<tr>
<td>8:00 – 10:00</td>
<td><strong>Coccidioidomycosis in Latin America</strong></td>
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<td></td>
<td>Moderators: Eduardo Arathoon-Perez and Rafael Laniado-Laborin</td>
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<td></td>
<td>• Coccidioidomycosis in Mexico:</td>
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<td></td>
<td>Rafael Laniado-Laborin</td>
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<td>• Coccidioidomycosis Research in Mexico:</td>
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<td></td>
<td>Raquel Muñiz-Salazar</td>
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<td>• Coccidioidomycosis and Tuberculosis: Differential Diagnosis:</td>
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<td>Luis Adrian Rendon-Perez</td>
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<td>• Coccidioidomycosis in Central America:</td>
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<td></td>
<td>Eduardo Arathoon-Perez</td>
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<td>• Coccidioidomycosis in South America:</td>
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<td>Cristina Canteros</td>
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<tr>
<td>10:00 – 10:30</td>
<td>Break and Poster 2 – Viewing (No CME)</td>
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<tr>
<td>10:30 – 12:30 PM</td>
<td><strong>Basic Science</strong></td>
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<td>Moderator: Joshua Fierer</td>
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<td>• Animal Models of Coccidioidomycosis:</td>
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<td></td>
<td>Joshua Fierer</td>
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<td>• Mendelian Mutations and Susceptibility to Coccidioidomycosis:</td>
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<td>Amy Hsu</td>
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<td>• Histoplasma and Coccidioides:</td>
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<td>Anita Sil</td>
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<td>• Determinants of a Vaccine for Coccidioidomycosis:</td>
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<td>Chiung-Yu Hung</td>
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<td>12:30 – 1:00</td>
<td>Lunch</td>
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<td>1:00 – 1:30</td>
<td>Update from CDC - No CME</td>
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<td>Tom Chiller</td>
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<td>Update from NIH – No CME</td>
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<td>Dennis Dixon</td>
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<td>1:30 – 2:30</td>
<td><strong>Special Lecture – Introduction:</strong> Neil M. Ampel</td>
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<td>What is the Life Cycle of Coccidioides? John Taylor</td>
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<td>2:30 – 3:00</td>
<td>Break and Poster 2 – Viewing (No CME)</td>
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<tr>
<td>3:00 – 5:00</td>
<td><strong>Coccidioidomycosis in Compromised Hosts</strong></td>
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<td>Moderator: Janis Blair</td>
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<td>• Coccidioidomycosis in Transplant Recipients:</td>
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<td></td>
<td>Janis Blair</td>
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<td>• Coccidioidomycosis in Patients with HIV Infection:</td>
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<tr>
<td></td>
<td>Neil M. Ampel</td>
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<td>• Coccidioidomycosis in Patients Receiving Biologics:</td>
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<td></td>
<td>Susan Hoover</td>
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<td>5:00 PM</td>
<td>Adjourn</td>
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<td>Time</td>
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<tr>
<td>7:30 – 8:30 AM</td>
<td>Breakfast</td>
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| 8:30 – 10:00 | **Occupational Health**  
Moderator: Marie de Perio  
• Occupational Coccidioidomycosis Surveillance:  
  [Marie de Perio](#)  
• Recent Occupational Coccidioidomycosis Investigations and Education Efforts in California:  
  [Jason Wilken](#)  
• A Case-Control Study of Coccidioidomycosis Among Hispanic Farm Workers in Kern County, CA:  
  [Stephen A. McCurdy](#)  
• Knowledge, Attitudes, Beliefs and Behaviors Regarding Coccidioidomycosis Among California Hispanic Farm Workers:  
  [Carol Sipan](#) |                                                                           |
| 10:00 – 12:00 PM | **Panel Discussion of the New Coccidioidomycosis Guidelines**  
Moderator: TBA  
**Panel:**  
Neil Ampel, Janis Blair, Antonino Catanzaro, Francesca Geertsma, Susan Hoover, Royce Johnson, David Stevens, and Rebecca Sunenshine |                                                                           |
| 12:00 PM     | Adjourn                                                                  |                                                                           |

Opportunities for Q&A will be provided at the conclusion of each presentation.