7th International Coccidioidomycosis Symposium

A Continuing Medical Education Conference Presented by the Division of Infectious Diseases & Geographic Medicine Department of Medicine with Infectious Diseases & Geographic Medicine at the Stanford University School of Medicine

August 10-13, 2017
Li Ka Shing Center for Learning
Palo Alto, CA

Please register early – space is limited • Register online at cme.stanford.edu/icm

Sponsored by the Stanford University School of Medicine

Stanford Medicine
Welcome message from the course directors

Dear Colleagues,

It is a pleasure to invite you to the 7th International Coccidioidomycosis Symposium to be held August 10-13, 2017 at Stanford University. The meeting, which takes place approximately once a decade, will bring together experts from the Americas and will present state of the art knowledge about this fascinating disease. Areas covered will include:

- History
- Understanding the fungal life cycle
- Fungal ecology and genomics
- Epidemiology (classical and molecular) and public health
- Occupational health aspects
- Coccidioidomycosis in Latin America
- Veterinary aspects
- Immunity
- Clinical presentation
- Diagnostics
- Management, including review of new IDSA guideline
- Host aspects – including role of immunodeficiencies, as well as genetic and immunosuppressive therapies
- Surgical aspects
- Role of new and promising antifungal agents
- Clinical problem-solving

Space is limited so register early; we look forward to your participation in this meeting.

Sincerely,

Stan Deresinski, MD
Clinical Professor of Medicine
Division of Infectious Diseases
Stanford University

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

Faculty

Course Directors
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Tgen North

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Departamento Micología
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California Department of Public Health

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Division of Foodborne, Waterborne, and Environmental Diseases
National Center for Emerging and Infectious Zoonotic Diseases
Centers for Disease Control and Prevention

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Mycotic Diseases Branch
Centers for Disease Control and Prevention

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Senior Research Scientist (retired)
California Institute for Medical Research

Gail Sondermeyer Cooksey, MPH
Infectious Diseases Branch
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National Institute of Allergy and Infectious Diseases (NIAID)
National Institutes of Health (NIH)

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

Please register early – space is limited
Faculty

Register online at cme.stanford.edu/icm
## Program (subject to change)

### Thursday – August 10th

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:00 – 9:00 AM</td>
<td><strong>Breakfast and Registration</strong></td>
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</table>
| 9:00 – 11:00 | **Workshop 1: Genetic Manipulation and Isolation of Coccidioides**  
Bridget Barker, Nancy Chow, and Marc Orbach |
| 9:00 – 11:00 | **Workshop 2: Clinical Laboratory Safety**                         
Vishnu Chaturvedi and Karl Clemons          |
| 9:00 – 11:00 | **Workshop 3: Understanding the Diagnostics of Coccidioidomycosis**  
Thomas Gys, Demosthenes Pappagianis, and Mike Saubolle  |
| 11:00 – 12:30 | Lunch                                                                 |
| 12:30 – 1:00 | **Opening of Conference**                                          
Introduction by Neil M. Ampel                                      |
| 1:00 – 3:00 | **Fungal Ecology & Genomics**                                     
Convener: 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  |
| 3:00 – 3:30 | Break                                                               |
| 3:30 – 5:30 | **Clinical Presentations of Coccidioidomycosis**                   
Convener: Susan Hoover and Rafael Laniado                                                                 |
|            | Panel: Janis Blair, Antonino Catanazaro, John N. Galgjani, Royce Johnson, and Laurence F. Mirels |
| 5:30 PM    | **Adjourn**                                                        |

### Friday – August 11th

<table>
<thead>
<tr>
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| 8:00 – 10:00 | **Epidemiology and Public Health**                                  
Conveners: Orion McCotter and Rebecca Sunenshine                     |
|            | • Overview of the National Epidemiology – Orion McCotter           |
|            | • Coccidioidomycosis in Arizona – Ken Komatsu                      |
|            | • Coccidioidomycosis in California                                  |
|            | – Gail Sondermeyer Cooksey; Duc Vugia                           |
|            | • Coccidioidomycosis in Washington State – Hanna Oltean            |
|            | • Genomic Epidemiology – David Engelthaler                         |
| 10:00 – 10:30 | Break and Poster 1 – Viewing                                      |
| 10:30 – 12:30 | **Treatment and Pharmacology**                                   
Convener: George Thompson III                                                                                   |
|            | • New Therapies for Coccidioidomycosis – Thomas Patterson         |
|            | • Pharmacology of newer Antifungals – James Lewis                 |
|            | • Adverse Effects, Drug Interactions and Dosing Issues – David Nix |
| 12:30 – 1:30 | Lunch and Poster 1 – Viewing                                      |
| 1:30 – 3:30 | **Pediatric Coccidioidomycosis**                                  
Conveners: Francesca Geertsma and James McCarty                      |
|            | • Coccidioidomycosis: Perspective from a Pediatric Pulmonologist – John Moua |
|            | • Coccidioidomycosis: The Pediatric Experience in Phoenix, AZ – Wassim Ballan |
|            | • Coccidioidomycosis in Children in California – Gail Sondermeyer Cooksey |
| 3:30 – 4:00 | Break and Poster 1 – Viewing                                      |
| 4:00 – 5:30 | **Veterinary Coccidioidomycosis**                                 
Conveners: Autumn Davidson and Lisa Shubitz                                                                        |
|            | • Treatment of Coccidioidomycosis in Dogs and Cats – Lisa Shubitz   |
|            | • CNS Manifestations of Coccidioidomycosis in Dogs and Cats – Cody Alcott |
|            | • Comparative Aspects of Canine and Human Coccidioidomycosis – Jane Sykes |
| 5:30      | **Adjourn**                                                        |
| 6:00 – 7:30 PM | Reception (participants and guests – additional fee required) |

### Saturday – August 12th

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<tbody>
<tr>
<td>7:00 – 8:00 AM</td>
<td><strong>Breakfast</strong></td>
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| 8:00 – 10:00 | **Coccidioidomycosis in Latin America**                              
Conveners: Eduardo Arathoon and Rafael Laniado                        |
|            | • Coccidioidomycosis in Mexico – Rafael Laniado-Laborín              |
|            | • Coccidioidomycosis Research in Mexico – Raquel Muñiz-Salazar       |
|            | • Coccidioidomycosis and Tuberculosis: Differential Diagnosis – Luis Adrian Rendón-Pérez |
|            | • Coccidioidomycosis in Central America – Eduardo Arathoon-Pérez    |
|            | • Coccidioidomycosis in South America – Cristina Canteros            |
| 10:00 – 10:30 | Break and Poster 2 – Viewing                                      |
| 10:30 – 12:30 | **Basic Science**                                                   
Convener: Joshua Fierer                                               |
|            | • Animal Models of Coccidioidomycosis – Joshua Fierer               |
|            | • Mendelian Mutations and Susceptibility to Coccidioidomycosis – Amy Hsu |
|            | • Histoplasma and Coccidioides – Anita Sil                         |
|            | • Determinants of a Vaccine for Coccidioidomycosis – Chiu Ng Hung  |
| 12:30 – 1:00 | Lunch                                                               |
| 1:00 – 1:30 | **Update from CDC**                                                 
Tom Chiller – No CME                                                 |
| 1:30 – 2:30 | Special Lecture – Introduction by Neil M. Ampel                      
What is the Life Cycle of Coccidioides? – John Taylor                |
| 2:30 – 3:00 | **Break and Poster 2 – Viewing**                                   |
| 3:00 – 5:00 | **Coccidioidomycosis in Compromised Hosts**                         
Convener: Janis Blair                                               |
|            | • Coccidioidomycosis in Transplant Recipients – Janis Blair         |
|            | • Coccidioidomycosis in Patients with HIV Infection – Neil M. Ampel |
|            | • Coccidioidomycosis in Patients Receiving Biologics – Susan Hoover |
| 5:00      | **Adjourn**                                                        |

### Sunday – August 13th

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<tr>
<td>7:30 – 8:30 AM</td>
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| 8:30 – 10:00 | **Occupational Health**                                             
Conveners: Marie de Perio                                           |
|            | • Occupational Coccidioidomycosis Surveillance – Marie de Perio      |
|            | • Recent Occupational Coccidioidomycosis Investigations and Education Efforts in California – Jason Wilken |
|            | • Occupation and Industry Data in Coccidioidomycosis-Associated Deaths in California – Rebecca Laws |
|            | • 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 | **Panel Discussion of the New Coccidioidomycosis Guidelines**      
Conveners: John Galgiani                                                                                   |
|            | Panel: Neil Ampel, Janis Blair, Antonino Catanazaro, Francesca Geertsma, Susan Hoover, Royce Johnson, David Stevens, and Rebecca Sunenshine |
| 12:00 PM   | **Adjourn**                                                        |
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 is an international program, designed for:
- Health care professionals specializing in prevention and management of Coccidioidomycosis
- Physicians in all specialties
- Clinical Microbiologists
- Researchers
- Registered Nurses
- Nurse Practitioners
- Pharmacists
- Veterinarians

LEARNING OBJECTIVES
At the conclusion of this activity, learners will 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 in 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 pathogen rather than saprophyte

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 24.50 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

CANCELLATION POLICY
In the event of cancellation, course fees will be fully refunded. Stanford University School of Medicine reserves the right to cancel this program in the event of cancellation, course fees will be fully refunded.

CONFERENCE LOCATION
Li Ka Shing Center for Learning and Knowledge
291 Campus Drive, 2nd Floor Conference Center
Stanford, California 94305
conferencecenter.stanford.edu

ACCOMMODATIONS
Sheraton Palo Alto
615 El Camino Real, Palo Alto, 650-328-2800

Registration

REGISTRATION
Registration fee includes course materials, certificate of participation, breakfast, lunch, and conference materials. An additional fee applies for those who wish to attend the Friday special reception.

Register online with a Visa or Master Card by visiting cme.stanford.edu/icm. If you prefer to pay by check or need assistance, please call (650) 497-8554 or email stanfordcme@stanford.edu. Be sure to register with an email address that you check frequently. Your email address is used for critical information, including registration confirmation, evaluation, and certificate.

<table>
<thead>
<tr>
<th>ATTENDEE TYPE</th>
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<tbody>
<tr>
<td>Physician/NP/RN</td>
<td>$475</td>
</tr>
<tr>
<td>All Others</td>
<td>$225</td>
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</tbody>
</table>

OPTIONAL
- Reception (LKSC lawn) $50/pp. Open to conference registrants and their guests.

CANCELLATION POLICY
Cancellations received in writing no less than 30 days before the course will be refunded, less a 20% administrative fee. No refunds will be made on cancellations received after that date. Please send cancellation requests to stanfordcme@stanford.edu.

Stanford University School of Medicine reserves the right to cancel this program in the event of cancellation, course fees will be fully refunded.

CONTACT INFORMATION
For questions about the symposium, please contact Yolanda Cervantes, CME Conference Coordinator, (650) 724-9549 or email ycervantes@stanford.edu

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