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**COCCI STUDY GROUP 58<sup>TH</sup> ANNUAL MEETING**  
**AGENDA**  
**PHOENIX, ARIZONA**  
**April 5, 2014**

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7:00-8:00 A.M.                      **Breakfast, Registration, Poster Set-up**

8:00-5:00 P.M.                      **Poster Visitation Available - Hosted in Foyer**

**List of Posters by Title and Authorship**

**1. Pilot-Project: Attempt to inhibit the growth of *Coccidioides immitis* in its natural habitat by a bacterial antagonist**

Joe Baal, Derrick Chung-Sang, Abdelhamid Dalia, Julie Asato, Kiefer Rodriguez and Antje Lauer

**2. The Epidemiology of Coccidioidomycosis – 15 California Counties, 2007-2011**

Michael Mac Lean

**3. Demonstration of *Coccidioides immitis* and *Coccidioides posadasii* DNA in soil samples collected from Dinosaur National Monument, Utah**

Suzanne M. Johnson, Erin L. Carlson, Frederick S. Fisher and Demosthenes Pappagianis

**4. Detection of *Coccidioides immitis* growth sites in the Antelope Valley Area, California**

Yvette Sanchez, Erica Mullins, Gurleen Kaur and Antje Lauer

**5. Development of a comprehensive rehabilitation program for patients convalescing from primary coccidioidal pneumonia**

Capone BL, Januszewski C, Nelson C, Galgiani JN.

**6. Zero Incidence of Coccidioidomycosis in Liver Transplant Recipients after Institution of Universal Prophylaxis**

Allon Kahn, Elizabeth J Carey and Janis E Blair

**7. Comparison of Nikkomycin Z Bioavailability after Single Dose Administration under Fed and Fasting Conditions**

Kathryn R. Matthias, David E. Nix, Susan Hoover, John N. Galgiani

**8. Establishing a Low-Cost, High-Throughput Screening Assay for Compounds Efficacious Against the Fungus *Coccidioides*, the Causative Agent of Valley Fever**

Valentine M, Chow D, Driebe E, Bowers J, Petit J, Narang P, Meurice N, Yin H, Engelthaler D, Keim P

**9. *Coccidioides* Exposures and Coccidioidomycosis Infections among Prison Employees in California**

Marie A. de Perio, Gregory A. Burr

**10. Novel IL-12R $\beta$ 2 Mutation Associated with Disseminated Coccidioidomycosis**

Mary E. Hanks, Amy P. Hsu, Uimook Choi, Brandon Sickel, Prabha Chandrasekaran, Un-In Wu, Christine D. Spalding, Gulbu Uzel, Alexandra F. Freeman, Harry L. Malech, Christa S. Zerbe, Steven M. Holland, Elizabeth P. Sampaio

**11. The avirulent *C. posadasii cps1* mutant has great potential as an attenuated vaccine**

Marc J. Orbach, Lisa F. Shubitz, Hema Narra, M. Alejandra Mandel and Hien Trinh

**12. *Coccidioides* Real Time PCR using the BD MAX**

Marilyn Mitchell, Dominic Dizon, Robert Libke, Michael Peterson, David Slater, Akashdeep Dhillon

**13. Development of a proteomic-based diagnostic tool for Valley Fever infection through the isolation and identification of *Coccidioides* proteins detectable in blood plasma**

Jenck, A., D. Lake, and R. U. Halden

**14. Estimating the Effect of Implementing a Screening Skin Test to Reduce Valley Fever at Highly Endemic Prisons in California**

Anne E. Purfield, Kaitlin Benedict, Brian Yablon, Charlotte Wheeler, Janet Mohle-Boetani, Benjamin J. Park

**15. *Coccidioides immitis* Infection in Total Knee Arthroplasty in Non-endemic Regions: a Report of the First Case in Spain**

Arbeloa, Lucas with Kuberski, Tim (by proxy)

**16. California Valley Fever Network**

Erin Gaab

8:00-8:15 A.M. **Convene Meeting/Introductions/Poster logistics/Amenities  
Antonino Catanzaro, Suzanne Johnson, Peter Kelly, Rebecca Sunenshine**

8:15-8:50 A.M. **Steven Holland, M.D.  
8:15 The Human Genetics of Disseminated Coccidioidomycosis**

8:50-9:50 A.M. **Clinical Science  
Moderator: Janis Blair**

**8:50 Pericardial Dissemination of Coccidioidomycosis, A Case Review Study**

Heidari, Arash, Johnson, Royce, Cohen, Avi, Sanchez, Negin.

**9:05 Surgical pathology of pleural coccidioidomycosis: a clinicopathological study of 36 cases**

Tatyana A. Shekhel, Robert W. Ricciotti, Janis E. Blair,

Thomas V. Colby, Richard E. Sobonya, Brandon T. Larsen

**9:20 Assessing outdoor exposure as a risk factor for valley fever among inmates at two prisons in highly endemic areas of California**

Anne E. Purfield, Kaitlin Benedict, Brian Yablon, Charlotte Wheeler, Janet Mohle-Boetani, Benjamin J. Park

**9:35 Disseminated Coccidioidomycosis: Risk Factors and Review of the Literature**

Camila Odio and Steven M. Holland

9:50-10:15 A.M. **Poster Visitation/Break  
Moderator: Suzanne Johnson**

Posters 1-8

10:15-11:45 A.M.

**Ecology and Epidemiology**  
**Moderator: David Engelthaler**

**10:15 Molecular detection and isolation of *Coccidioides immitis* from soil in Washington State**

Steven Hurst, Lalitha Gade, Nicola Marsden-Haug, David Engelthaler, Heather Hill, Cindy Ralston, Marcia Goldoft, Tom Chiller, Mary Brandt and Anastasia Litvintseva

**10:30 The Binational Project improving the Diagnosis, Surveillance, and Treatment of Coccidioidomycosis in the Border Region of “Four Corners” Arizona-Sonora and New Mexico-Chihuahua**

Dra Nubia Hernandez, Orion McCotter, Katherine Perez-Lockett, Mariana Casal, Cristhian Tapia, Paul Dulin, Robert Guerrero, Dr. Gumaro Barrios, Dr Francisco Navarro Galvez, Olvera Alba Sergio, QC Rosario Aguayo, Marta Alicia Bueno, Chad Smelzer, Cesar Vera, Gloria Carrete, Ken Komatsu

**10:45 *Coccidioides* spp Antibodies in Domestic Dogs and Wild Rodents in Mexico**

LR Castañón-Olivares, C Segundo-Zaragoza, MR González-Martínez, MG Moctezuma-Zárate, R Muñoz-Salazar, Ana R. Montiel-Arteaga, C Toriello, A Pérez, R Laniado-Laborín, RA Cervantes-Olivares.

**11:00 The impact of changing laboratory reporting and testing practices on the epidemiology of coccidioidomycosis in Arizona, 2008 - 2013**

Mohammed Khan, Clarisse Tsang

**11:15 The Epidemiology of coccidioidomycosis in southern Arizona**

Mohammed Alzoubaidi, Orion McCotter, Catherine Golenko, and Neil M. Ampel

**11:30 Conducting a study on the economic burden of Valley Fever in California: results and lessons learned**

Jie Ting, Harold Lin, Paul Brown, Leslie Wilson

11:45-12:45 P.M.

**Lunch**

12:45-1:00 P.M.

**Dennis Dixon, Ph.D.**

**12:45 Coccidioidomycosis and the NIH: Past, Present and Future**

1:00-1:15 P.M.

**Business Meeting, Cocci Study Group**

**Moderator: A. Catanzaro, Chair, CSG**

Bylaws/Voting; U.C., Merced proposal to host 59<sup>th</sup> meeting; 59<sup>th</sup> meeting date choices of March 21, 28 and April 11, 18 (Easter is Sunday, Apr. 5 and Passover is Apr. 3-11); Stewart Nielson/Skin Tests; Royce Johnson/Treasury Report; Herbert Boro/Program - duration of meeting vs. concurrent sessions/Poster presentations with abstract overload

1:15-3:00 P.M.                    **Laboratory and Experimental Science**  
**Moderator: Karl Clemons**

**1:15 Whole blood cytokine patterns after *in vitro* antigen stimulation among patients with various types of coccidioidomycosis**

Chinh T. Nguyen, Lance Nesbit, Suzanne Johnson, Demosthenes Pappagianis, and Neil M. Ampel

**1:30 Th17 immunity is essential for optimal protection against *Coccidioides* infection**

Chiung-Yu Hung, Natalia Castro-Lopez, Gary Ostroff, Tao Peng, John Galgiani, and Garry T. Cole

**1:45 IL-8 receptor and resistance to *C. immitis* Infection**

Joshua Fierer, Suganya Viriyakosol, Lorraine Walls, Sharon Okamoto

**2:00 A Survey of Lectin Reactivity to *Coccidioides* in Infected Human Lung Tissue**

Yasmynn Chowdhury, Setu Kaushal, Tom Gryns, Janis A. Blair, Yvette Ruiz, D. Mitchell Magee, Thomas V. Colby and Douglas F. Lake

**2:15 Screening spherule cell walls for protective vaccine antigens**

Roberts LM, Shubitz LF, Pablo J, Trinh, HT, Peng T, Aljumentas A, Sasaki R, Hermanson G, Lewis, ML, Felgner P, Davies DH, Frelinger JA, Galgiani JN

**2:30 VT-1161, a Novel Fungal CYP51 Inhibitor, Improved Survival in a Murine Model of Coccidioidal Meningitis**

Shubitz, LF, Trinh, HT, Galgiani, JN, Lewis, ML, Garvey, EP, Hoekstra, WJ, Moore, WR, Schotzinger, RJ

**2:45 Hybridization and Introgression among species of *Coccidioides***

Bridget Barker, Eric Lewis

3:00-3:30 P.M.                    **Poster Visitation/Break**  
**Moderator: Suzanne Johnson**

Posters 9-16

3:30-4:00 P.M.                    **Poster Forum - Questions and Answers**  
**Moderator: Suzanne Johnson**

4:00-5:00 P.M.                    **Clinical Science**  
**Moderator: Neil Ampel**

**4:00 Differentiating Lung Nodules due to Coccidioidomycosis from Lung Cancer using Clinical and Radiographic Features**

Reza Ronaghi, Ali Rashidian, Paul Mills, Michael W. Peterson

**4:15 Serum Procalcitonin Levels in Acute Coccidioidomycosis Infections**

Kenneth K. Sakata, Thomas Gryns, Yu-Hui Chang, Holenarasipur R. Vikram and Janis E. Blair

**4:30 Multi-center Laboratory Investigation of Coccidioidomycosis EIA  
Reproducibility in Patients with Confirmed Disease and Controls**

Soofia Khan, MD; Rebecca Sunenshine, MD; Mike Saubolle, PhD, DABMM; Frank Ryan, Ph.D., DABCC; Arash Heidari, MD; Kelly Barbian, MT; Megan Eguchi, MPH; Orion McCotter, MPH; Kenneth Komatsu, MPH; Benjamin J Park, MD; Mike V Lancaster, PhD

**4:45 Incidence and severity of coccidioidomycosis in subjects receiving corticosteroids, DMARDs or anti-TNF- $\alpha$  therapy**

Mohammad Fazel, Emily McGlamery, and Neil M. Ampel

5:00 P.M. **Concluding Remarks**  
**Antonino Catanzaro**

7:00 P.M. **Dinner at Canyon Café (by reservation)**  
**Peter Kelly and Rebecca Sunenshine**

Cocci Study Group Program Committee  
Herbert Boro – Chair  
Karl Clemons  
David Engelthaler  
Suzanne Johnson

2014 Cocci Study Group Hosts  
Peter Kelly  
Rebecca Sunenshine

Cocci Study Group Board of Directors  
Neil Ampel – Chair-elect  
Janis Blair  
Herbert Boro  
Antonino Catanzaro - Chair  
Autumn Davidson  
Jessica Einstein  
Rafael Laniado-Laborin  
Royce Johnson  
Rebecca Sunenshine

Maricopa County Department  
of Public Health  
Lia Koski  
Jamie Wells

Arizona Department of  
Health Services  
Mohammed Khan  
Clarisse Tsang

**CSG Satellite Meeting: “Coccidioides in the Soil”**

Directors: Bridget Barker and David Engelthaler  
Sign-up: at CSG meeting April 5  
Fee: **no fee** for registered attendees at the CSG meeting  
Time: 10:00-12:00 noon on Sunday, April 6, 2014  
Location: TGen HQ (next to the Phoenix Biomedical Campus)