

**62ND ANNUAL COCCIDIOIDOMYCOSIS
STUDY GROUP SCIENTIFIC MEETING**

AGENDA

**SATELLITE MEETING
Coccidioidomycosis and Public Health**

April 13, 2018

Northern Arizona University
High Country Conference Center
Flagstaff, Arizona

**SCIENTIFIC MEETING
Presentations of Original Research Regarding Coccidioidomycosis**

April 14, 2018

High Country Conference Center
Northern Arizona University
Flagstaff, Arizona

SATELLITE MEETING: APRIL 13, 2018
Coccidioidomycosis and Public Health
Moderator: Orion McCotter

- 1:00 P.M. **Welcome and Introductions - Orion McCotter**
- 1:15-1:30 **VALLEY FEVER IS UNDER-RECOGNIZED EVEN IN THE ENDEMIC AREAS**
Donovan E, Wightman P, Majeed A, Gabe L, Zong Y, Galgiani J (no abstract)
- 1:30-1:45 **TESTING FOR COCCIDIOIDOMYCOSIS IN ARIZONA EMERGENCY DEPARTMENTS**
Adame G (CSG-49)
- 1:45-2:00 **CHALLENGES IN COCCIDIOIDOMYCOSIS SURVEILLANCE IN WASHINGTON STATE: PROVIDER AWARENESS AND LABORATORY REPORTING**
Oltean H, Hubber J, Fuller M (CSG-19)
- 2:00-2:15 **Group Discussion: Enhancing Awareness.**
- 2:15-2:30 **COCCIDIOIDOMYCOSIS CASES WITH PERSISTENTLY POSITIVE TEST RESULTS**
Khan M (CSG-50)
- 2:30-2:45 **ENHANCED SURVEILLANCE OF COCCIDIOIDOMYCOSIS IN SAN DIEGO COUNTY, 2014-2016**
Arizmendi O, Fabian E, Balagot C, Iniguez-Stevens E, Kao A (CSG-45)
- 2:45-3:00 **RECENT TRENDS IN COCCIDIOIDOMYCOSIS IN THE DEPARTMENT OF VETERANS AFFAIRS (VA)**
Lucero-Obusan C, Holodniy M (CSG 37)
- 3:00-3:10 **Roundtable Discussion: Surveillance.**
- 3:10-3:30 **Break**
- 3:30-3:45 **DIRECT DETECTION OF *COCCIDIOIDES* FROM AIR SAMPLES IN PHOENIX, ARIZONA**
Litvintseva A (no abstract received)
- 3:45-4:00 **Group Discussion: Environmental Sampling Applications**

- 4:00-4:15 **DETERMINING OCCUPATIONAL CAUSATION OF COCCIDIOIDOMYCOSIS - TWO CASE STUDIES**
Nicas M (CSG-20)
- 4:15-4:40 **COCCIDIOIDOMYCOSIS AMONG WORKERS CONSTRUCTING A SOLAR POWER FARM IN MONTEREY, CALIFORNIA, 2016-2017**
Laws R, Sondermeyer Cooksey G, Jain S, Wilken J, McNary J, Moreno E, Michie K, Mulkerin C, McDowell A, Vugia D, Materna B (CSG-46)
- 4:15-4:40 **COCCIDIOIDOMYCOSIS AMONG INMATE WILDLAND FIREFIGHTERS IN CALIFORNIA, 2017**
Laws R, Mohle-Boetani J, Jain S, Sondermeyer Cooksey G, Leistikow B, Wilken J, McNary J, Vugia D, Harrison R, Materna B (CSG-47)
- 4:40-5:00 **Roundtable Discussion: Outbreak Mitigation.**
- 5:00-5:05 **Concluding Remarks: Orion McCotter**
- Dinner On your own**
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SCIENTIFIC MEETING: APRIL 14, 2018

- 7:00-8:00 A.M. **Continental Breakfast/Registration**
- 8:00-8:15 **Welcome and Announcements - Neil Ampel**
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Poster Presentations
Moderator: The Program Committee

SMALL MOLECULE SCREENING OF EUKARYOTIC RECOMBINANT CHITIN SYNTHASE IN *COCCIDIOIDES POSADASII*
Roeder A, Mitchell N, Lake D (CSG-25)

DETERMINING THE AMOUNT OF *COCCIDIOIDES* PRESENT IN A SOIL SAMPLE BASED ON QUANTITATIVE PCR ANALYSIS
Kollath D, Barker B (CSG-40)

COCCIDIOIDOMYCOSIS IN *CANIS LUPUS FAMILIARIS*
Parra K, Mead H, Kollath D, Teixeira M, Barker B (CSG-30)

LARGE-SCALE COCCIDIOIDES SOIL SAMPLING METHOD

Erickson R, Kollath Dan, Barker B (CSG-43)

HEAT TREATMENT TO INACTIVATE RISK GROUP 4 COCCIDIOIDES SPP.

Blackmon A, Mead H, Vogler A, Barker B (CSG-21)

COCCIDIOMYCOSIS WITH STRONGYLOIDIASIS AND POSSIBLE OTHER FUNGAL CO INFECTION

Nandurkar N (CSG-48)

DISSEMINATED COCCIDIOIDOMYCOSIS IN THE PRE-AMPHOTERICIN ERA: EXAMINATION OF THE VA-ARMED FORCES DATABASE

Bays D, Thompson G III, Reef S, Snyder L, Freifeld A, Huppert M*, Salkin D*, Wilson M, Galgiani J *deceased (CSG-16)

A CASE OF COCCIDIOIDOMYCOSIS DISSEMINATED TO THE KIDNEY

Coleman J, Heidari A, Hillyer S (CSG-24)

TARGETED SEROLOGICAL SURVEY OF CANINES FOR COCCIDIOIDES IN WASHINGTON: A PROOF OF CONCEPT PROJECT

Wohrle R, Clifford W, Salamone A, Kangiser D, Black W, DeBess E (CSG-13)

EXPLORING POSSIBLE ECOLOGICAL NICHES FOR COCCIDIOIDES SPECIES ENDEMIC IN NEW MEXICO

Hamm P, Hutchinson M, Melman S, Natvig D (CSG-17)

PULMONARY COCCIDIOIDOMYCOSIS PRESENTING WITH INTERLOBULAR SEPTAL THICKENING

Joshua J, Crotty-Alexander L (CSG-1)

SEVERE DISSEMINATED COCCIDIOIDOMYCOSIS IN A DOG WITH A MONOCLONAL GAMMOPATHY

Shubitz L, Vishkautsan P, Schlacks S, Bradley G, Van Erven L, Lewis M, Dial S (CSG-3)

A CASE OF PRIMARY COCCIDIOIDOMYCOSIS COMPLICATED BY EMPYEMA

Galant-Swafford J, Light M, Rawlings S, Chen E, Fierer J, Landsberg W (CSG-9)

PERITONEAL COCCIDIOIDOMYCOSIS PRESENTING AS A HERNIA

Quinlan M, Coleman J, Heidari A, Johnson R, Pakula A (CSG-27)

LOCUS MINORIS RESISTENTIAE IN COCCIDIOIDOMYCOSIS

Sherpa N, Heidari A, Johnson R. (CSG-31)

TRENDS IN LABORATORY RESULTS OF REPORTED COCCIDIOIDOMYCOSIS CASES IN ARIZONA, 2013-2017

Khan M, Brady S, Adame G, Komatsu K (CSG-5)

SEASONAL KERN COUNTY FARM WORKERS' KNOWLEDGE, ATTITUDES, BELIEFS AND BEHAVIORS REGARDING COCCIDIOIDOMYCOSIS (CDC/NIOSH 5U01OH010839)

Sipan C, Portillo-Silva C, Bang H, McCurdy S (CSG-42)

Laboratory and Basic Science

Moderator: Bridget Barker

- 8:15-8:30 **ANTI-COCCIDIOIDAL COMPLEMENT-FIXING TYPE (CF) ANTIBODIES RECOGNIZE FEW IF ANY CONTINUOUS EPITOPES OF THE CF ANTIGEN, CTS₁.**
Zong Y, Peng T, Johnson M, Lewis L, Frelinger J, Galgiani J (CSG-11)
- 8:30-8:45 **DEVELOPMENT OF A HIGH THROUGHPUT IMAGING FLOW CYTOMETRY (IFC) METHOD TO QUANTIFY FUNGAL CELLULAR STATES**
Hung C, McMahan C, Marisol E, Yu J (CSG-29)
- 8:45-9:00 **MEASURING THE NATURAL COURSE OF ANTIBODY PRODUCTION IN *COCCIDIOIDES* EXPOSED DOGS**
Powell D², Hill K, Shubitz L, Trinh H, Butkiewicz C, Peng T, Bowen R, Bosco-Lauth A, Galgiani J, Frelinger J (CSG-36)
- 9:00-9:15 **DEVELOPMENT PATHWAY AND PROGRESS TOWARDS A USDA-APPROVED AVIRULENT LIVE VACCINE TO PREVENT COCCIDIOIDOMYCOSIS IN CANINES**
Robb E, Hennessy K, Shubitz Lisa, Bowen R, Orbach M, Powell D, Frelinger J, Galgiani J (CSG-6)
- 9:15-9:30 **VALLEY FEVER COMPANION DIAGNOSTIC**
Stafford P (CSG-18)
- 9:30-09:45 **ASSAYS TO OBTAIN vNAR FRAGMENTS FOR ENVIRONMENTAL *COCCIDIOIDES* spp.**
Lopez-Tello J, Cabanillas-Bernal Ol, Licea-Navarro A, Riquelme M (CSG-22)
- 09:45-10:00 **HOST-PATHOGEN PROTEIN PROFILING OF COCCIDIOIDOMYCOSIS IN MULTIPLE HOST SPECIES**
Mitchell N, Grys T, Lake D (CSG-23)
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10:00-10:30 **Break and Posters Visitation**

Epidemiology-Ecology
Moderator: Rebecca Sunenshine

- 10:30-10:45 **REVIEW OF COCCIDIOIDOMYCOSIS ENDEMIC PARAMETERS IN MÉXICO**
Castañón-Olivares L, Muñoz-Salazar R, Candolfi O, Lezama A (CSG-44)
- 10:45-11:00 **THE EFFECTS OF CLIMATE CHANGE ON COCCIDIOIDOMYCOSIS ENDEMIC REGIONS IN THE UNITED STATES**
Gorris M, Treseder K, Zender C, Randerson J (CSG-14)
- 11:00-11:15 **COCCIDIOIDOMYCOSIS IN THE SURROUNDING LAND MASSES OF THE CARIBBEAN SEA IS CAUSED BY CRYPTIC COCCIDIOIDES POSADASII POPULATIONS**
Teixeira M, Matute D, Alvarado P, Hepp C, Roe C, Sahl J, Thompson G III, Arathoon E, Galgiani J, Engethaler D, Barker B (CSG-33)
- 11:15-11:30 **INCREASE IN REPORTED COCCIDIOIDOMYCOSIS CASES IN ARIZONA FROM OCTOBER, 2017 THROUGH JANUARY, 2018**
Bezold C, Khan M, Brady S, Adame G, Sunenshine R, Komatsu K (CSG-34)
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- 11:30-12:00 **Business Meeting - Moderator Neil Ampel**
- I. Nominations for outgoing Board Officers (floor nominations are ok)
 - Program Director:
 - Treasurer:
 - Nominations Chair:
 - Web Site Chair:
 - Veterinary Representative:
 - II. CSG-63 (2019) meeting site: U.C., Davis-Sacramento.
George Thompson III will host.
 - III. CSG-64 (2020) site: Phoenix, Tucson, New Mexico or San Antonio, TX. Host TBD.
 - IV. Treasurer's Report: Royce Johnson
 - V. Announcements:
 - President's award for Performance Excellence is **Karl V. Clemons, Ph.D.**
 - No Travel Grants were awarded.
 - VI. Other New Business
 - VII. Board of Directors meeting will be at 5:00, to include new members.

12:00-1:00 **Lunch Break**
1:00-1:30 **Posters Visitation**

Clinical Science
Moderator: Susan Hoover

- 1:30-1:45 **THE UTILITY OF SCREENING FOR COCCIDIOIDOMYCOSIS IN RECIPIENTS OF ANTI-TUMOR NECROSIS FACTOR ALPHA THERAPY**
Blair J, Choi K, Deval N, Vyas A (CSG-7)
- 1:45-2:00 **THE VALUE OF ROUTINE SEROLOGICAL SCREENING FOR COCCIDIOIDOMYCOSIS IN PATIENTS ON ANTIRHEUMATIC THERAPY**
Bilal J, Sudano D, Kollampare S, Bode B, Lisse J, Hoover S, Ampel N (CSG-35)
- 2:00-2:15 **COCCIDIOIDOMYCOSIS COMPLEMENT FIXATION TITER TRENDS IN THE AGE OF ANTIFUNGALS**
McHardy I, Dinh B, Thompson G III (CSG-12)
- 2:15-2:30 **A RETROSPECTIVE REVIEW OF CANINE COCCIDIOIDOMYCOSIS CASES AT A TERTIARY CARE CENTER IN TUCSON**
Butkiewicz C, Shubitz L (CSG-10)
- 2:30-2:45 **POSACONAZOLE AND ITRACONAZOLE INDUCED HYPERTENSION AND HYPOKALEMIA: MECHANISM AND TREATMENT IMPLICATIONS**
Thompson D III, McHardy I, Chang D, Wittenberg R, Semrad A, Hoffman W (CSG-4)
- 2:45-2:55 ****DELAYS IN DIAGNOSIS OF COCCIDIOIDOMYCOSIS IN TUCSON, ARIZONA**
Donovan, E, Wightman P, Majeed A, Gabe Luke, Zong Y, Galgiani J (CSG-8)
- 2:55-3:05 ****RAPIDITY OF COCCIDIOIDOMYCOSIS DIAGNOSIS AND ITS EFFECT ON HEALTHCARE UTILIZATION**
Ginn, R¹, Mohty, R, Bollmann, K, Galgiani, J, Mendez, G, Goodsell, J (CSG-38)

3:05-3:15 ****ANTIBIOTIC AND ANTIFUNGAL TREATMENT AMONG PATIENTS WITH COCCIDIOIDOMYCOSIS IN SOUTHERN CALIFORNIA 2011**
Chi G, Benedict K, Beer K, Jackson B, McCotter O, Xie F, Lawrence J, Tartof S (CSG-26)

3:15-3:30 ****Roundtable Discussion of Strategies to Avoid Diagnostic Delay**

3:30-4:00 **Break and Posters Visitation**

Case Reports

Moderator: Neil Ampel

4:00-4:15 **COCCIDIOIDOMYCOSIS OF THE EPIDIDYMISS AND TESTIS PRESENTING AS A TESTICULAR MASS**
Sheikhan Nazanin, Heidari Arash, Hillyer Shahab (CSG-39)

4:15-4:30 **COCCIDIOIDAL MENINGITIS WITH VASCULITIC MYCOTIC ANEURYSMS: A CASE AND REVIEW**
D'Assumpcao C, Kaur S, Chen J, Johnson R, Heidari A (CSG-28)

4:30-4:45 **COCCIDIOIDOMYCOSIS CHORIORETINITIS**
Nordstrom B, Heidari A, Johnson R H, Chawla A (CSG-32)

4:45-5:00 **SALVAGE THERAPY WITH ISAVUCONAZOLE FOR THE TREATMENT OF COCCIDIOIDAL MENINGITIS: A CASE REPORT**
Ngai T, Mu A (CSG-2)

5:00 **Concluding Remarks: Neil Ampel**

7:00 **CSG Banquet (pre-paid) at Restaurant 1899**
(across from the High Country Conference Center)

Co-Hosts for CSG-62 in Flagstaff, Arizona

Bridget Barker Joel Terriquez

Program Committee

*Bridget Barker
Janis Blair
Herbert Boro - Chair
Karl Clemons
Susan Hoover
Orion McCotter
Heather Mead
Natalie Mitchell
Lisa Shubitz
Rebecca Sunenshine*

Board of Directors

*Neil Ampel - Chair
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