**67th ANNUAL COCCIDIOIDOMYCOSIS STUDY GROUP SCIENTIFIC MEETING**

**AGENDA**

**SCIENTIFIC MEETING**

**Presentations of Original Research Regarding Coccidioidomycosis**

**March 30-April 1, 2023**

**Health Sciences Innovation Building**

**University of Arizona**

**Tucson, AZ**

**MARCH 30, 2023**

1:00-4:00 **WORKSHOP:** **MOVING PREDICTIVE MODELING FOR VALLEY FEVER FORWARD THROUGH A HUB APPROACH, A MEETING OF A PROSPECTIVE COCCI MODELING HUB**

**MARCH 31, 2023**

7:15-7:50 **CONTINENTAL BREAKFAST/REGISTRATION**

7:50-8:00 **OPENING REMARKS**

**CSG PRESIDENT: NEIL AMPEL**

**LOCAL HOST: FARIBA DONOVAN**

**COLLEGE OF MEDICINE DEAN: MICHAEL ABECASSIS**

**EPIDEMIOLOGY**

**Moderator: Rebecca Sunenshine**

8:00-8:20 **PRELIMINARY ESTIMATE OF THE BURDEN OF COCCIDIOIDOMYCOSIS IN THE UNITED STATES, 2019**

Samantha Williams, Brendan Jackson, Kaitlin Benedict, Tom Chiller, Mitsuru Toda

Centers for Disease Control and Prevention, Atlanta, USA

8:20-8:40 **PRELIMINARY RESULTS OF VALLEY FEVER ENHANCED SURVEILLANCE AMONG ADULTS IN CALIFORNIA, JUNE–OCTOBER 2022 (Virtual)**

Gail Sondermeyer Cooksey, Shambhavi Mishra, Alyssa Nguyen, Seema Jain, Duc Vugia, Akiko Kimura

California Department of Public Health, Richmond, CA, USA

8:40-9:00 **OCCUPATIONAL ENHANCED SURVEILLANCE OF COCCIDIOIDOMYCOSIS, MARICOPA COUNTY, 2018-2019**

Jennifer Collins1, Sourav Roy1, Jessica White1, Stacey Marovich2, Jeff Purdin2, Jennifer Cornell2, Matthew Hirst2, Surprese Watts2, Rebecca Sunenshine1,3

1Maricopa County Department of Public Health, Phoenix, USA. 2The National Institute for Occupational Safety and Health (NIOSH), Cincinnati, USA. 3CDC Career Field Office Program, Atlanta, USA

9:00-9:20 **NOVEL EPIDEMIOLOGICAL TRENDS OF COCCIDIOIDOMYCOSIS IN SOUTH AMERICA: RISK FACTORS, CLINICAL AND GEOGRAPHICAL CHARACTERIZATION, AND GENOMIC TYPING OF COCCIDIOIDES SP. IN AN EMERGING ENDEMIC AREA IN NORTHEASTERN BRAZIL**

Kelsen Dantas Eulálio1, Daniel Kollath2, Liline Maria Soares Martins1, Antonio de Deus Filho1, Maria do Amparo Salmito Cavalcanti1, Lucas Machado Moreira3, Lucas Gomes de Brito Alves4, Daniele Yamauchi5, Gil Benard6, George Thompson7, Mathieu Nacher8, Eduardo Bagagli5, Maria Sueli Soares Felipe9, Bridget M. Barker10, Luciana Trilles3, Marcus de Melo Teixeira4

1Hospital de Doenças Infecto Contagiosas-HDIC, Federal University of Piauí-UFPI, Teresina, Brazil. 2The Pathogen and Microbiome Institute, Northern Arizona University, Flagstaff, USA. 3Evandro Chagas National Institute of Infectology, Fiocruz, Rio de Janeiro, Brazil. 4Faculty of Medicine, University of Brasília, Brasília, Brazil. 5Departamento de Microbiologia e Imunologia, Instituto de Biociências de Botucatu, Universidade Estadual Paulista/UNESP, Botucatu, Brazil. 6Laboratório de Micologia Medica, Departamento de Dermatologia, Instituto de Medicina Tropical, Faculdade de Medicina, Universidade de São Paulo, São Paulo, Brazil. 7Department of Medical Microbiology and Immunology, University of California, Davis, Davis, USA. 8Centre d’Investigations Cliniques, INSERM 1424, Centre hospitalier de Cayenne, Cayenne, French-Guiana. 9Universidade Católica de Brasília, Brasília, Brazil. 10The Pathogen and Microbiome Institute, Northern Arizona University, Flagstaff, Brazil

9:20-9:35 **ASSOCIATION BETWEEN WILDFIRES AND COCCIDIOIDOMYCOSIS CASES IN CALIFORNIA, 2000-2018: A SYNTHETIC CONTROL ANALYSIS**

Sophie Phillips1,2, Isabel Jones2, Gail Sondermeyer-Cooksey3, Alexander Yu3, Alexandra Heaney2, Bo Zhou1, Abinash Bhattachan4, Amanda Weaver2, Simon Campo2, Whitney Mgbara2, Robert Wagner2, John Taylor2, Dennis Lettenmaier2, Greg Okin2, Seema Jain2, Duc Vugia2, Justin Remais2, Jennifer Head2

1University of California, Los Angeles, Los Angeles, USA. 2University of California, Berkeley, Berkeley, USA. 3California Department of Public Health, Richmond, USA. 4Texas Tech University, Lubbock, USA

9:35-9:50 **POSITIVE ASSOCIATION BETWEEN FINE MINERAL DUST EXPOSURE AND COCCIDIOIDOMYCOSIS INCIDENCE IS MODIFIED BY ANTECEDENT CLIMATE CONDITIONS**

Amanda Weaver1, Nicole Keeney1, Jennifer Head1, Alexandra Heaney1, Simon Campo1, Philip Collender1, Abinash Bhattachan2, Gregory Okin3, Ellen Eisen1, Gail Sondermeyer- Cooksey4, Alexander Yu4, Duc Vugia4, Seema Jain4, John Balmes5, John Taylor1, Justin Remais1

1UC Berkeley, Berkeley, USA. 2Texas Tech University, Lubbock, USA. 3UCLA, Los Angeles, USA. 4California Department of Public Health, Richmond, USA. 5UCSF, San Francisco, USA

9:50-10:00 **DISCUSSION**

10:00-10:30 **BREAK**

**ECOLOGY**

**Moderator: Ana Litvintseva**

10:30-10:50 **SMALL MAMMAL BURROWS SHAPE THE DISTRIBUTION OF *COCCIDIOIDES* IN SOILS: EVIDENCE FROM A LONG-TERM ECOLOGICAL EXPERIMENT IN THE CARRIZO PLAIN NATIONAL MONUMENT, CALIFORNIA, USA**

Jennifer Head1, Simon Campo1, Amanda Weaver1, Isabel Jones1, Lilliam Montoya1, Erika Lee1, Molly Radosevich1, Robert Wagner1, Abinash Bhattachan2, Phillip Collender1, Grace Campbell1, Alexandra Heaney1, William T Bean3, John Taylor1, Justin Remais1

1University of California, Berkeley, Berkeley, USA. 2Texas Tech University, Lubbock, USA. 3California Polytechnic University, San Luis Obispo, USA

10:50-11:10 **THE RELATIONSHIP BETWEEN *COCCIDIOIDES POSADASII* AND BIOLOGICAL SOIL CRUSTS IN ARIZONA DESERT ECOSYSTEMS**

Marieke Ramsey1, Daniel Kollath1, Anita Antoninka2, Bridget Barker1

1Pathogen and Microbiome Institute at NAU, Flagstaff, USA. 2Northern Arizona University, Flagstaff, USA

11:10-11:30 **COCCIWATCH: UNDERSTANDING THE EXPOSURE RISK OF AEROSOLIZED *COCCIDIOIDES* IN A VALLEY FEVER ENDEMIC METROPOLIS**

W. Tanner Porter1, Lalitha Gade2, Parker Montfort1, Joseph R. Mihaljevic3, Jolene R. Bowers1, Andrew Willman4, Brian A. Klimowski5, Bonnie LaFleur6, Guillermo Adame7, Shane Brady7, Ken Komatsu7, Tom Chiller2, Anastasia P. Litvintseva2, David M. Engelthaler1

1Pathogen & Microbiome Division, Translational Genomics Research Institute 2Mycotic Diseases Branch, Centers for Disease Control and Prevention 3School of Informatics, Computing, and Cyber Systems, Northern Arizona University 4Department of Homeland Security 5National Weather Service 6College of Pharmacy, The University of Arizona 7Epidemiology and Biostatistics, Arizona Department of Health Services

11:30-11:50 ***COCCIDIOIDES* ALONG RIPARIAN HABITATS IN THE SAN JOAQUIN VALLEY IN CALIFORNIA**

Robert Wagner, Liliam Montoya, Justin Remais, John Taylor

University of California Berkeley, Berkeley, USA

11:50-12:00 **SUMMARY OF THURSDAY MEETING ON A MODELING HUB APPROACH TO PREDICTIVE MODELING FOR VALLEY FEVER**

Malavika Rajeev1

1Mycotic Diseases Branch, Centers for Disease Control and Prevention, Atlanta, USA

12:00-12:10 **DISCUSSION**

12:10-13:30 **LUNCH BREAK**

**VACCINE DEVELOPMENT**

**Moderator: Janis Blair**

13:30-13:50 **LUNG EPITHELIAL CELLS REGULATE THE IMMUNE RESPONSE TO INTRANASAL VACCINATION AGAINST COCCIDIOIDOMYCOSIS (virtual)**

Bruce Klein1, Gaurav Bairwa1, Darin Wiesner2, Prashant Desai1

1Univeristy of Wisconsin-Madison, Madison, USA. 2Rutgers University, Newark, USA

13:50-14:10 **PROTEIN MICROARRAYS IDENTIFY KNOWN AND NOVEL IMMUNOREACTIVE *COCCIDIOIDES* PROTEINS**

Lusheng Song1, Lisa Shubitz2, Jin Park1, Vel Murugan1, Yunro Chung1, Francisca Grill1, Joshua LaBaer1, John Galgiani2, Daniel Powell2, Douglas Lake1, D. Mitchell Magee1

1The Biodesign Institute, Arizona State University, Tempe, USA. 2Valley Fever Center for Excellence, The University of Arizona, Tucson, USA

14:10-14:20 **FAILURE TO DETECT Δ*cps1* IN A MOUSE REVERSION-TO-VIRULENCE STUDY**

Lisa Shubitz1, Edward Robb2, Christine Butkiewicz1, Hien Trinh1, John Galgiani1

1Valley Fever Center for Excellence, Tucson, USA. 2Anivive Lifesciences, Long Beach, USA

14:20-14:40 **LACK OF SHED SPREAD OR REVERSION OF VIRULENCE OF A ΔCPS1 IN VACCINATED DOGS**

Edward Robb1, Angela Bosco-Lauth2, Lisa Shubitz3, Hien Trinh3, Richard Bowen2

1Anivive Lifesciences, Inc., Long Beach, USA. 2Colorado State University, Fort Collins, USA. 3University of Arizona, Tucson, USA

## 14:40-14:50 **SAFETY AND EFFICACY OF Δcps1 VACCINE IN MICE WITH PRIMARY IMMUNODEFECIENCES**

Daniel Powell1,2, Amy Hsu3, Christine Butkiewicz1, Hien Trinh1, Edward Robb4, David Bruyette4, Jeffrey Frelinger1, Steven Holland3, John Galgiani1, Lisa Shubitz1

1Valley Fever Center for Excellence, University of Arizona, Tucson, USA. 2Department of Immunobiology, University of Arizona, Tucson, USA. 3NIAID NIH, Bethesda, USA. 4Anivive Lifesciences, Long Beach, USA

14:50-15:00 **DISCUSSION**

15:00-15:30 **BREAK**

**VACCINE DEVELOPMENT**

**Moderator: Ken Knox**

15:30-15:50 **CREATION AND EVALUATION OF AN mRNA VACCINE AGAINST COCCIDIOIDOMYCOSIS**

Austin Negron1, Nawal Abdul-Baki1, Venus Stanton1, Matthew Barker1, Althea Campuzano1, Florentina Rus2, Karthika Nagalekshmi2, Jeremy Luban2, Ernesto Soto2, Gary Ostroff2, Chiung-Yu Hung1

1The University of Texas at San Antonio, San Antonio, USA. 2UMass Chan Medical School, Worcester, USA

15:50-16:10 **DNA AND SELF-AMPLIFYING RNA VACCINES EXPRESSING *COCCIDIOIDES* ANTIGENS INDUCE ROBUST MUCOSAL AND SYSTEMIC IFN-γ AND TH17 T CELL RESPONSES IN MICE**

Justin Ulrich-Lewis1, Miles Corley1, James T. Fuller1, Bridget M. Barker2, Jesse Erasmus3, Deborah H. Fuller1

1Department of Microbiology, University of Washington, Seattle, WA, USA. 2Department of Biological Sciences, Northern Arizona University, Flagstaff, AZ, USA. 3HDT Bio, Seattle, WA, USA

16:10-16:30 **IDENTIFICATION OF A NOVEL VIRULENCE FACTOR IN *COCCIDIOIDES POSADASII***

Heather Mead1,2, Daniel Kollath1, Ashley Itogawa1, Matthew Morales1, Ana Braga1, Mitchell Bryant1, Austin Blackmon1, Apoorva Bhaskara2, Marcus Teixeira3,1, Bridget Barker1

1The Pathogen and Microbiome Institute at Northern Arizona University, Flagstaff, AZ, USA. 2The Translation Genomics Institute-North, Flagstaff, AZ, USA. 3University of Brasilia, Brasilia, Brazil

16:30-16:50 **STRUCTURAL AND FUNCTIONAL ANALYSIS OF *CPS1*; A VIRULENCE FACTOR IN VALLEY FEVER**

Devin Seka, Thomas Tomasiak, Marc Orbach

University of Arizona, Tucson, USA

16:50-17:00 **DISCUSSION AND CLOSE OF ORAL SESSION I**

18:00-20:00 **POSTER SESSION**

**APRIL 1, 2023**

7:00-8:00 AM **CONTINENTAL BREAKFAST/REGISTRATION**

**BASIC SCIENCE**

**Moderator: Neil Ampel**

8:00-8:20 **DECTIN-1: A PARTIAL EXPLANATION FOR SEVERE COCCIDIOIDOMYCOSIS IN DOGS?**

Amy Hsu1, Christine Butkiewicz2, John Galgiani2, Lisa Shubitz2, Steven Holland1

1NIAID/NIH, Bethesda, USA. 2Valley Fever Center for Excellence, University of Arizona, Tucson, USA

8:20-8:40 **TOWARD BETTER TREATMENTS: INVESTIGATING FUNGAL SECRETED PROTEASES IN COCCIDIOIDOMYCOSIS**

Christina Homer, Mark Voorhies, Anita Sil

University of California- San Francisco, San Francisco, CA USA

8:40-9:00 **PATHOGENESIS OF *COCCIDIOIDES POSADASII* AND SARS-COV-2 CO-INFECTION IN THE K18-HUMAN ACE2 TRANSGENIC MOUSE MODEL.**

Daniel Kollath1, Ashley Itogawa1, Matthew Morales1, Ana Braga1, Mitchel Bryant1, Jinhee Yi1, Francisca Grill2, Paul Keim1, Douglas Lake2, Erik Settles1, Bridget Barker1

1The Pathogen and Microbiome Institute at Northern Arizona University, Flagstaff, USA. 2Arizona State University, Tempe, USA

9:00-9:20 **ELUCIDATING KEY INTERACTIONS BETWEEN MACROPHAGES AND THE FUNGAL PATHOGEN COCCIDIOIDES**

Jane Symington, Bevin English, Mark Voorhies, Anita Sil

University of California- San Francisco, San Francisco, CA USA

9:20-9:35 **THERAPEUTIC DRUG MONITORING OF ANTIFUNGAL AGENTS IN PATIENTS WITH COCCIDIOIDOMYCOSIS**

Mohammed Eltanany1, Lovedip Kooner1, Michelle Fang1, Arash Heidari2,1, Rasha Kuran2,1, Bianca Torres1, Jessica Redgrave3, Royce Johnson1,4,5

1Valley Fever Institute at Kern Medical, Bakersfield, USA. 2Infectious Diseases, Kern Medical Center, Bakersfield, USA. 3Kern Medical Center, Bakersfield, USA. 4Department of Medicine, Division of Infectious Diseases, Kern Medical, Bakersfield, USA. 5Department of Medicine, David Geffen School of Medicine UCLA, Los Angeles, USA

9:35-9:50 **INTESTINAL AND TRACHEAL MICROBIOMES INHIBIT *IN VITRO* GROWTH OF *COCCIDIOIDES IMMITIS***

Susana Tejeda-Garibay1, Maria Pimentel1, Nicholas Hum1, Lihong Zhao1, Anh Diep1, Gabriela Loots2, Katrina Hoyer1

1University of California Merced, Merced, USA. 2Lawrence Livermore National Laboratories, Livermore, USA

9:50-10:00 **DISCUSSION**

10:00-10:30 **BREAK**

**CLINICAL STUDIES**

**Moderator: GR Thompson**

10:30-10:50 **VOLATILE MOLECULES IN HUMAN BRONCHOALVEOLAR LAVAGE FLUID CAN DISCRIMINATE VALLEY FEVER FROM OTHER LUNG INFECTIONS**

Emily Higgins Keppler1,2, Kenta Reilly3, Katherine McAulay4, Thomas Grys3, Heather Bean1,2

1School of Life Sciences, Arizona State University, Tempe, AZ, USA. 2Center for Fundamental and Applied Microbiomics, The Biodesign Institute, Tempe, AZ, USA. 3Laboratory Medicine and Pathology, Mayo Clinic, Phoenix, AZ, USA. 4Penn Medicine, University of Pennsylvania Health System, Philadelphia, Pennsylvania, USA

10:50-11:10 **DEVELOPMENT AND EVALUATION OF A RAPID 10-MINUTE ASSAY TO DETECT ANTI-COCCIDIOIDAL ANTIBODIES**

Francisca Grill1, Sergei Svarovsky2, Maria Gonzalez-Moa2, Erin Kaleta3, Lydia Lovato4, Janis Blair5, Kenta Reilly3, D Mitch Magee6, Thomas Grys3, Douglas Lake1

1School of Life Sciences, Arizona State University, Tempe, USA. 2Glycodots.LLC, San Diego, USA. 3Department of Laboratory Medicine and Pathology, Mayo Clinic, Phoenix, USA. 4Veterinary Neurological Center, Phoenix, USA. 5Division of Infectious Diseases, Mayo Clinic, Phoenix, USA. 6Center for Personalized Diagnostics, Biodesign Institute, Arizona State University, Phoenix, USA

11:10-11:30 **X-LINKED LYMPHOPROLIFERATIVE SYNDROME TYPE 1 AND CTPS1 DEFICIENCY – TWO INBORN ERRORS OF IMMUNITY PRESENTING WITH SERONEGATIVE COCCIDIOIDOMYCOSIS**

Jonathon Schening1, James V. Woodward1, Ifat Krase1, Bridget E. Wilson2, Holly K. Miller2, Rajeev Bhatia2, Cindy S. Bauer2, Roshini S. Abraham3, Keith Sacco2,4

1Phoenix Children's Hospital, Phoenix, USA. 2Phoenix Children's Hospital, Phoenix, AZ, USA. 3Nationwide Children's Hospital, Columbus, OH, USA. 4The University of Arizona College of Medicine-Phoenix, Phoenix, AZ, USA

11:30-11:50 **IDENTITY-BY-DESCENT SEGMENTS AND THEIR RELATIONSHIP TO DISSEMINATED COCCIDIOIDOMYCOSIS**

Sarah J. Spendlove1,2, Samantha L. Niles-Jensen2,3, Kangcheng Hou1,2, Ruhollah Shemirani4, Gillian M. Belbin5, Christa Caggiano1, Alexis V. Stephens6, George R. Thompson III7,8,9, Royce H. Johnson10,11,12, Arash Heidari10,11,12, Rasha Kuran10,11,12, Bogdan Pasaniuc2,3,13, Manish J. Butte3,6, Valerie A. Arboleda1,2,3,13

1Interdepartmental Bioinformatics Program, David Geffen School of Medicine, UCLA, Los Angeles, CA, USA. 2Department of Pathology and Laboratory Medicine, David Geffen School of Medicine, UCLA, Los Angeles, CA, USA. 3Department of Human Genetics, David Geffen School of Medicine, UCLA, Los Angeles, CA, USA. 4Institute for Genomic Health, Icahn School of Medicine at Mount Sinai, New York City, NY, USA. 5Gencove, New York City, NY, USA. 6Division of Immunology, Allergy, and Rheumatology, Department of Pediatrics, David Geffen School of Medicine, UCLA, Los Angeles, CA, USA. 7UC-Davis Center for Valley Fever, UC-Davis, Davis, CA, USA. 8Department of Medical Microbiology and Immunology, UC-Davis, Davis, CA, USA. 9Department of Medicine and Division of Infectious Diseases, UC-Davis, Sacramento, CA, USA. 10Department of Medicine, David Geffen School of Medicine, UCLA, Los Angeles, CA, USA. 11Valley Fever Institute, Kern Medical, Bakersfield, CA, USA. 12Division of Infectious Diseases, Kern Medical, Bakersfield, CA, USA. 13Department of Computational Medicine, David Geffen School of Medicine, UCLA, Los Angeles, CA, USA

11:50-12:00 **OPPORTUNITIES FOR VALLEY FEVER RESEARCHERS AND DEMYSTIFYING THE NIH GRANTS PROCESS**

Dona Love

National Institutes of Health/NIAID, Bethesda, USA

12:00-12:10 **DISCUSSION**

12:10-13:30 **LUNCH BREAK; CSG BUSINESS MEETING**

**CLINICAL STUDIES**

**Moderator: Bridget Barker**

13:30-13:50 **RARE LOSS OF FUNCTION VARIANTS IDENTIFIED IN PUTATIVE COCCIDIOIDOMYCOSIS RISK GENES IN NOVEL WHOLE GENOME SEQUENCED COHORT FROM THE VALLEY FEVER INSTITUTE**

Samantha L. Jensen1, Sarah J. Spendlove2,3, Alexis V. Stephens4, Royce H. Johnson5,6,7, Arash Heidari5,6,7, Rasha Kuran5,6,7, Harold Pimentel8,1, Manish J. Butte4, Valerie A. Arboleda1,8,3

1Department of Human Genetics, David Geffen School of Medicine, UCLA, Los Angeles, USA. 2Interdepartmental Bioinformatics Program, David Geffen School of Medicine, UCLA, Los Angeles, USA. 3Department of Pathology and Laboratory Medicine, David Geffen School of Medicine, UCLA, Los Angeles, USA. 4Division of Immunology, Allergy, and Rheumatology, Department of Pediatrics, David Geffen School of Medicine, UCLA, Los Angeles, USA. 5Department of Medicine, David Geffen School of Medicine, UCLA, Los Angeles, USA. 6Valley Fever Institute, Kern Medical, Bakersfield, USA. 7Division of Infectious Diseases, Kern Medical, Bakersfield, USA. 8Department of Computational Medicine, David Geffen School of Medicine, UCLA, Los Angeles, USA

13:50-14:10 ***EX VIVO* RELEASE OF INTERFERON-γ (IFN-γ) AND INTERLEUKIN-2 (IL-2) IN RESPONSE TO WHOLE BLOOD INCUBATION WITH RECOMBINANT COCCIDIOIDAL ANTIGENS**

Mrinalini Kala1, Eric Holbrook2, Garrett Grischo1, Althea Campuzano3, Josh Malo4, Ian Robey4, Heidi Erickson4, Fariba Donovan4, Kory Johnson1, Cody Banks2, Christopher Dailey2, ChiungYu Hung3, Neil Ampel4, L. Joseph Wheat2, Ken Knox1

1University of Arizona- College of Medicine Phoenix, Phoenix, USA. 2MiraVista Diagnostics, Indianapolis, USA. 3UTSA, San Antonio, USA. 4University of Arizona- College of Medicine Tucson, Tucson, USA

14:10-14:30 **CLINICAL PREDICTORS OF COCCIDIOIDOMYCOSIS FROM A CROSS-SECTIONAL STUDY**

Ferris Ramadan1, Katherine Ellingson1, Robert Canales2, Edward Bedrick3, John Galgiani4,5, Fariba Donovan4,5

1Department of Epidemiology and Biostatistics, Mel and Enid Zuckerman College of Public Health, University of Arizona, Tucson, USA. 2Department of Environmental and Occupational Health, Milken Institute School of Public Health, George Washington University, District of Colombia, USA. 3University of Arizona College of Public Health, Tucson, USA. 4The University of Arizona College of Medicine, Tucson, USA. 5The Valley Fever Center for Excellence, University of Arizona College of Medicine, Tucson, USA

14:30-14:40 **COCCIDIOIDAL PULMONARY CAVITATION: A NEW AGE**

Lovedip Kooner1,2,3, Augustine Munoz4,2,3, Austin Garcia1,2,3, Akriti Kaur1,2,3, Rupam Sharma1,2,3, Virginia Bustamante1,2,3, Vishal Narang1,2,3, George R. Thompson III5, Rasha Kuran1,2,3, Amir Berjis6, Royce H. Johnson1,2,3, Arash Heidari1,2,3

1Department of Medicine, Division of Infectious Diseases, Kern Medical, Bakersfield, USA. 2Valley Fever Institute at Kern Medical, Bakersfield, USA. 3Department of Medicine, David Geffen School of Medicine, University of California Los Angeles, Los Angeles, USA. 4Department of Medicine, Division of Pulmonology, Kern Medical, Bakersfield, USA. 5Department of Internal Medicine, Division of Infectious Diseases. UC-Davis Medical Center, Sacramento, USA. 6Department of Surgery, Kern Medical Center, Bakersfield, USA

14:40-14:50 **COCCIDIOIDOMYCOSIS: KNOWLEDGE, ATTITUDES, AND PRACTICES AMONG HEALTHCARE PROVIDERS – ARIZONA, 2014**

Thomas Williamson1, Daisy Steiner1, Bikash Bhattarai2, Mohammed Khan3, Guillermo Adame1, Irene Ruberto1, Shane Brady1, Kenneth Komatsu1, Clarisse Tsang3

1Arizona Department of Health Services, Phoenix, USA. 2Valleywise Health, Phoenix, USA. 3U.S. Centers for Disease Control and Prevention, Atlanta, USA

14:50-15:00 **DISCUSSION**

15:00-15:30 **BREAK**

**CLINICAL STUDIES**

**Moderator: Fariba Donovan**

15:30-15:50 **DRUG REPURPOSING FOR NOVEL ANTIFUNGALS THAT INHIBIT SPHERULE-PHASE GROWTH**

Sarah Saeger1, Armando Mendez1, Laura Najvar2, Nathan Wiederhold2, Jieh-Juen Yu1,3, Jose Lopez-Ribot1,3, ChiungYu Hung1,3

1Department of Molecular Microbiology and Immunology at the University of Texas at San Antonio, San Antonio, USA. 2Fungus Testing Laboratory at the University of Texas Health Science Center at San Antonio, San Antonio, USA. 3South Texas Center of Emerging Infectious Diseases, San Antonio, USA

15:50-16:10 **CRANIOCERVICAL COCCIDIODOMYCOSIS MENINGITIS: MANAGEMENT IMPLICATIONS FOR HYDROCEPHALUS, SYRINGOMYELIA AND CNS DRUG DELIVERY**

Christopher Uchiyama, Pamela Boswell

Scripps Clinic, La Jolla, USA

16:10-16:30 **ISAVUCONAZOLE IN THE TREATMENT OF CHRONIC FORMS OF COCCIDIOIDOMYCOSIS**

Arash Heidari1, Rupam Sharma1, Qusai Shakir1, Madiha Shah2, Josh Clement2, Monica Donnelly2, Trina Reynolds3, Kate Trigg2, Jeff Jolliff1, Rasha Kuran1, Royce Johnson1, George Thompson2

1Kern County, Bakersfield, USA. 2UC-Davis, Sacramento, USA. 3UC-Davis, Sacramento, USA

16:30-16:50 **OLOROFIM FOR TREATMENT OF INVASIVE FUNGAL INFECTIONS (IFI) DUE TO COCCIDIOIDOMYCOSIS IN PATIENTS WITH LIMITED OR NO TREATMENT OPTIONS: INTERIM RESULTS FROM A PHASE 2B OPEN-LABEL STUDY (NCT03583164, STUDY 32)**

GR Thompson1, Martin Hoenigl2, Jeff Jenks3, Sanjay Mehta4, Bennett Penn1, Stuart Cohen1, Mark Bresnik5, John Rex5

1UC-Davis, Sacramento, USA. 2University of Graz, Graz, Austria. 3Duke University, Durham, USA. 4UCSD, San Diego, USA. 5F2G, Manchester, United Kingdom

16:50-17:00 **DISCUSSION**

17:00 **CONCLUDING REMARKS AND CLOSE OF MEETING**

17:15-18:15 **CSG BOARD MEETING**

18:30-21:00 **CSG BANQUET**

**End of meeting**

**See you in San Antonio, Texas in 2024!**