

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 Sunenshine^{1,3}
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 Phillips^{1,2}, 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, Lilliam 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 $\Delta cpsI$ 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 $\Delta CPSI$ 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 $\Delta cpsI$ VACCINE IN MICE WITH PRIMARY IMMUNODEFICIENCIES**
Daniel Powell^{1,2}, 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**
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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 Mead^{1,2}, Daniel Kollath¹, Ashley Itogawa¹, Matthew Morales¹, Ana Braga¹, Mitchell Bryant¹, Austin Blackmon¹, Apoorva Bhaskara², Marcus Teixeira^{3,1}, 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 Heidari^{2,1}, Rasha Kuran^{2,1}, Bianca Torres¹, Jessica Redgrave³, Royce Johnson^{1,4,5}

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 Tejada-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 Keppler^{1,2}, Kenta Reilly³, Katherine McAulay⁴, Thomas Gryś³, Heather Bean^{1,2}

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 Gryś³, 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 Sacco^{2,4}

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. Spendlove^{1,2}, Samantha L. Niles-Jensen^{2,3}, Kangcheng Hou^{1,2}, Ruhollah Shemirani⁴, Gillian M. Belbin⁵, Christa Caggiano¹, Alexis V. Stephens⁶, George R. Thompson III^{7,8,9}, Royce H. Johnson^{10,11,12}, Arash Heidari^{10,11,12}, Rasha Kuran^{10,11,12}, Bogdan Pasaniuc^{2,3,13}, Manish J. Butte^{3,6}, Valerie A. Arboleda^{1,2,3,13}
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. Spendlove^{2,3}, Alexis V. Stephens⁴, Royce H. Johnson^{5,6,7}, Arash Heidari^{5,6,7}, Rasha Kuran^{5,6,7}, Harold Pimentel^{8,1}, Manish J. Butte⁴, Valerie A. Arboleda^{1,8,3}
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 Galgiani^{4,5}, Fariba Donovan^{4,5}
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 Columbia, 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 Kooner^{1,2,3}, Augustine Munoz^{4,2,3}, Austin Garcia^{1,2,3}, Akriti Kaur^{1,2,3}, Rupam Sharma^{1,2,3}, Virginia Bustamante^{1,2,3}, Vishal Narang^{1,2,3}, George R. Thompson III⁵, Rasha Kuran^{1,2,3}, Amir Berjis⁶, Royce H. Johnson^{1,2,3}, Arash Heidari^{1,2,3}
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 Yu^{1,3}, Jose Lopez-Ribot^{1,3}, ChiungYu Hung^{1,3}

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 COCCIDIOMYCOSIS 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 COCCIDIOMYCOSIS**

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 COCCIDIOMYCOSIS 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!