Chlamydia Basic Research Society
11th Biennial Meeting

March 20- 23, 2023
Omaha, Nebraska

COMPLETE PROGRAM
Registration will take place on Sunday, March 19, from 3-8 pm, and Monday, March 20, from 7-9 am in the Pre-function area outside of the Ballroom, located on the 2nd floor.

Speakers: please bring a copy of your slides in PowerPoint format for loading onto the conference computer AT LEAST ONE DAY BEFORE YOUR TALK.

The conference computer will be available for uploading your presentations at the registration desk on Sunday. At registration, we will need to know if you have any food aversions/allergies and if you are attending the banquet. There will be vegetarian, vegan, GF, etc. options but the hotel needs to know this information ahead of time.

For trainees, you will have the opportunity to sign up for “****Lunch with RBs**** (Really Big Shots)”, a.k.a. with mentors, on Monday, Wednesday, or Thursday. We are planning to reserve 2 lunch tables each day, which will each be hosted by a seasoned member of the CBRS community so that trainees can meet and chat with senior CBRS faculty. PLEASE SIGN UP FOR ONLY ONE TABLE.

All CBRS oral scientific sessions will be held in the Capitol Ballrooms 1 & 2.

Breakfast and lunch will be held in Capitol Ballrooms 3 & 4. Lunch on Tuesday will be in the form of a lunch box. Dinners from Monday-Wednesday and breakfast on Friday are on your own.

All poster sessions will be held in the Pre-function outside the Ballroom, located on the 2nd floor. Put your poster up the evening before or the morning of your scheduled poster presentation. Please take your poster down at the end of your poster session. Thursday’s poster session will be held from 1:30 pm-3:30 pm. It is especially important that everyone and their poster be out of the room by 4:00 pm.

Morning and afternoon coffee breaks/snacks will be held in the Pre-function outside the Ballroom area.

The CBRS Awards Dinner on Thursday, March 23, will be held from 7-10 pm at the Holland Performing Arts Center (1200 Douglas St).

*** NEW THIS YEAR*** Experimental session panels. Please submit your questions about Genetic manipulations (Wednesday session) and In vitro/in vivo models (Thursday session) to Fabienne Paumet (Fabienne.paumet@jefferson.edu), William Geisler (wgeisler@uabmc.edu), or Isabelle Derré (id8m@virginia.edu). You can also submit your questions during registration.
<table>
<thead>
<tr>
<th>Time</th>
<th>Monday, March 20</th>
<th>Tuesday, March 21</th>
<th>Wednesday, March 22</th>
<th>Thursday, March 23</th>
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<tbody>
<tr>
<td>8:15</td>
<td>Opening remarks</td>
<td>Review immunology: Michael Starnbach</td>
<td>Review genetics: Ken Fields</td>
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<td>8:30</td>
<td>Remembrance</td>
<td>Review cell biology: Ted Hackstadt</td>
<td>Development and application of Chlamydia genetics: Past, Present, and Future</td>
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<td>8:45</td>
<td>Review pathogenesis: Toni Darville</td>
<td>Review genetics: Ken Fields</td>
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<td>Understanding Ct pathogenesis, a pathway to disease prevention</td>
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<td>Chlamydia environment: Microbiome and co-infection</td>
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<td>12:00</td>
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<td>Disparities and inequalities in STIs</td>
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<td>12:15</td>
<td>Lunch</td>
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<td>12:45</td>
<td>Lunch with RBs (Toni Darville / Ted Hackstadt)</td>
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<td>4:45</td>
<td>Lightning talks</td>
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<td>6:15</td>
<td>Business dinner (Invitation only)</td>
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CODE OF CONDUCT

The Chlamydia Basic Research Society Meeting (CBRS) is committed to the open sharing of scientific ideas. We support a respectful environment for all participants at this conference. We are dedicated to providing a safe and welcoming environment for all, regardless of race, ethnicity, gender, gender identity and expression, sexual orientation, disability, religion, national origin, or other protected characteristics. We expect all attendees to treat others with respect and consideration and to contribute to a safe and positive conference experience in which participants can discover, consider, and communicate knowledge toward improving public health.

CBRS maintains a zero-tolerance policy for illegal or inappropriate behavior or harassment of any kind at the conference. By registering for and participating in CBRS, attendees agree to adhere to this policy and the following Code of Conduct, which will be reiterated by the President during the opening of the meeting: If a participant experiences or witnesses harassment, they should contact Conference Organizers as soon as possible, or contact security if they feel unsafe. Immediate reporting is important to properly assess the situation and fashion an appropriate response that addresses the problem while being sensitive to the concerns of all who are affected. There also may be times when it is incumbent upon the Conference Organizers to exercise their own judgment by interrupting a speaker or addressing behavior that, when construed in the entire context of the circumstances surrounding the person making the remarks or acting out, is considered clearly unwelcome or objectionable to others at a conference.

Individuals who have questions, concerns, or complaints related to harassment are also encouraged to contact the Conference Organizers. Individuals may notify the NIH about concerns of harassment, including sexual harassment, discrimination, and other forms of inappropriate conduct at NIH-supported conferences through the NIH’s Find Help webpage: https://grants.nih.gov/grants/policy/harassment/find-help.htm. Complaints may also be filed through the HHS Office for Civil Rights (OCR). Information about how to file a complaint with HHS OCR can be found on the OCR webpage: https://www.hhs.gov/civil-rights/filing-a-complaint/index.html. Filing a complaint with the conference organizer is not required before filing a complaint of discrimination with HHS OCR, and seeking assistance from the conference organizer in no way prohibits filing complaints with HHS OCR.

Conference Organizers
Joanne Engel (Joanne.Engel@ucsf.edu) President
Raphael Valdivia (raphael.valdivia@duke.edu) President-Elect
Isabelle Derré (id8m@virginia.edu) Secretary/Treasurer
Fabienne Paumet (fabienne.paumet@jefferson.edu) Chair, Program Organizing Committee
George Liechti (george.liechti@usuhs.edu) Program Organizing Committee
William Geisler (wgeisler@uabmc.edu) Program Organizing Committee
Lisa Rucks (lisa.rucks@unmc.edu) Local Organizing Committee
Scot Ouellette (scot.ouellette@unmc.edu) Local Organizing Committee
Rey Carabeo (rey.carabeo@unmc.edu) Local Organizing Committee
Amanda Brinkworth (amanda.brinkworth@unmc.edu) Local Organizing Committee

COVID POLICY

Our goal is to keep everyone safe. Masks will be required in the meeting space, except when eating and drinking. We strongly encourage vaccination and boosting with the bivalent vaccine, masking during travel, and rapid testing upon arrival. We will have masks and a limited number of rapid tests available at registration each day. And please, if you have any symptoms consistent with COVID during the meeting, please follow the FDA guidelines on rapid testing

2023 CBRS OFFICERS AND ORGANIZING COMMITTEES

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Joanne Engel
University of California, San Francisco
San Francisco, CA

President-Elect
Raphael Valdivia
Duke University
Durham, NC

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Christine Suetterlin, University of California Irvine, Irvine, CA
Elizabeth (Lisa) Rucks, University of Nebraska Medical Center, Omaha, NE
Derek Fisher, Southern Illinois University, Carbondale, IL
Gilbert Greub, Lausanne University Hospital – CHUV, Lausanne, Vaud, Switzerland

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William Geisler, University of Alabama at Birmingham, Birmingham, AL
George Liechti, Uniformed Services University of the Health Sciences, Bethesda, MD
Raphael Valdivia, Duke University, Durham, NC

Local Organizing Committee
Lisa Rucks
Amanda Brinkworth
Rey Carabeo
Scot Ouellette

Past Presidents
2003-2005 Gerald Byrne
2005-2007 Priscilla Wyrick
2007-2009 Lee Ann Campbell
2009-2011 Roger Rank
2011-2013 Patrick Bavoil
2013-2015 Ming Tan
2015-2017 Johannes Hegemann
2017-2019 Toni Darville
SPONSORS

We would like to thank the following sponsors who provided generous support that was used to support trainee registration costs.

NIH National Institute of Allergy and Infectious Diseases

DEPARTMENT OF MICROBIOLOGY, IMMUNOLOGY, AND CANCER BIOLOGY

UNIVERSITY of VIRGINIA SCHOOL of MEDICINE

Joanne Engel, Kyle Ramsey, Ted Hackstadt, Tony Maurelli, Constance Rothermel, David Martin Raphael Valdivia, Tony Maurelli, Michael Starnbach, George Liechti, Jann Rupp, John Cox
CBRS TRAINEE AWARDS

San-pin Wang Award – This award is for the best oral presentation by a graduate student and the best oral presentation by a post-doctoral fellow.

San-pin Wang’s name is synonymous with the micro-immunofluorescence (micro-IF) test, which was developed by him in 1970. Until today, the micro-IF test remains the only type-specific serological test for laboratory diagnosis of chlamydial infection and serotyping of chlamydial isolates. This is the test that led us to discover new disease syndromes and to understand the epidemiology and immunopathology of chlamydial infection. San-pin was born in 1920 in Taiwan, was educated at Keio University in Tokyo, and returned to Taiwan in 1946 where he worked as a virologist. In 1958, he began his long collaboration with Tom Grayston on the study of Chlamydia. He emigrated to the U.S. in 1964 to join Tom at the University of Washington in Seattle to continue their productive chlamydial research until San-pin’s death in 2001. Using the micro-IF test, a series of important discoveries on human chlamydial infection was made by San-pin and his colleagues and students. First, C. trachomatis as an important pathogen of sexually transmitted disease was defined in 1975. Second, the Chlamydia agent which causes respiratory disease was discovered in 1986 and later speciated as Chlamydia pneumoniae in 1989. Finally, the association between C. pneumoniae and coronary heart disease was established in 1988. For these contributions, San-pin received the Kimble Award from the American Public Health Association in 1991 for a person who developed a laboratory test of significant impact on public health. He also received special recognition for his research contribution to chlamydia from the International Chlamydia Society at the Seventh International Symposium on Human Chlamydial Infections in 1990. San-pin was a humble person. He would never claim his achievement while he was alive because he believed that a judgment on a person’s achievement should be left to historians to make. Most certainly, any historian of Chlamydia research would list San-pin Wang’s achievements among the most significant in the field. (Submitted by Dr. Cho-chou Kuo)

Previous Recipients of the San-pin Wang Award:

Graduate student
2003 Christopher Schaumberg
2005 Andrea McCoy
2007 Raymond Moniz
2009 Elizabeth Di Russo Case
2011 Barbara Sixt
2013 Mary J. McKuen
2015 Emily A. Snavely
2017 Taylor Poston
2019 Jasmine Labuda
2023

Post-doctoral fellow
2003 Ken Fields
2005 David Nelson
2007 Xiaobing Han
2009 Travis Jewett
2011 Lin-xi Li
2013 Michael L. Barta
2015 Catarina V. Nogueira
2017 Barbara Sixt
2019 Karthika Rajeeve
2023
**Jane E. Raulston Award** – This award is for the best poster presentation by a graduate student and the best poster presentation by a post-doctoral fellow.

**Dr. Jane E. Raulston, Ph.D.** (1967 – 2007)

As a young Research Assistant Professor (1995) at the University of North Carolina School of Medicine, Jane became intrigued by the physiological complexities of intracellular parasitism and the role of iron in microbial infection and, thus, she launched her career in *Chlamydia* on the role of iron in chlamydial pathogenesis. Her first study was an important contribution to the field that chlamydial growth and development were adversely affected by iron restriction and involved the up or down-regulation of ~19 EB proteins. This was followed by elegant, cutting-edge work identifying the master iron regulatory gene, dcrA, the first transcriptional repressor in *Chlamydia*. In 2000, she returned to her alma mater, East Tennessee State University, and the young J.H. Quillen College of Medicine, where she rose to Professor of Microbiology and Pathology. A kind and insightful mentor and dedicated advocate for students, she won 5 major graduate and medical student teaching awards, before losing her battle with breast cancer. As an active participant of CBRS and a member of the Scientific Program Committee for CBRS 2005 in Indianapolis, it is fitting that the outstanding poster awards now will be named in her honor. (Submitted by Dr. Priscilla Wyrick)

**Previous recipients of the Jane E. Raulston Award:**

<table>
<thead>
<tr>
<th>Graduate student</th>
<th>Post-doctoral fellow</th>
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<tr>
<td>2007 Jennifer Vanover</td>
<td>2007 Kena Swanson</td>
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<td>2009 Lacey Taylor</td>
<td>2009 Jorn Coers</td>
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<td>2011 Karin Aistleitner</td>
<td>2011 Robert J. Bastidas</td>
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<td>2013 Andrew Olive</td>
<td>2013 Robert J. Bastidas</td>
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<td>2015 António Tedim Pedrosa</td>
<td>2015 Brett Hanson</td>
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<td>2017 Ana Nogueira</td>
<td>2017 Mary Weber</td>
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<td>2019 Nathan Hatch</td>
<td>2019 Rodrigo Gonzalez</td>
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This year, the Jane E. Raulston Award is co-sponsored by the [*Cytoskeleton*](#) - Cytoskeleton seeks to advance the field of research on the cytoskeleton by the publication of research papers, reviews, and commentary that document new findings. Cytoskeleton is interested in all areas of research that are related to the cytoskeleton, especially in new and emerging areas.
CBRS TRAINEES TRAVEL AWARDS

In 2019, the CBRS established travel awards for trainees for whom attendance would not be otherwise possible and to enhance diversity. The travel awards were funded by personal donations from the CBRS constituency, and we wholeheartedly thank all the donors. The travel awards were initially named in honor of Dr. Priscilla Wyrick. In 2023, we are fortunate to increase the number of travel awardees through personal donations to the Julie Schachter Travel Awardee fund and a generous donation from Abbott.

2019 Priscilla Wyrick Travel Awardees
Karthika Rajeeve, University of Wuerzburg, Germany
Mary Brockett, University of the Uniformed Services
Clare Gyorke, University of North Carolina, Chapel Hill
Carlos Nunez Otero, University of Umea, Sweden
Maria Emilia Panzetta, University of Cordoba, Argentina
Amy Berry, University of East Tennessee State
Kati Hokynar, University of Helsinki, Finland
Skyla Duncan, University of Alabama
Ayodeji O. Ipinmoroti, University of Alabama

2023 Priscilla Wyrick Travel Awardees
Madison Dresler, Mount Holyoke College
Janina Ehses, University of California Irvine
Enrique Rayo Blasco, Institute of Veterinary Pathology, University of Zürich
Lucie Berclaz, Mount Holyoke College

2023 Julie Schachter Travel Awardees
Clara Herrera, University of California, San Francisco
Noopur Kamal Dasgupta, Oklahoma State University
Adam Haines, Thomas Jefferson University
McKenna Harpring, University of Tennessee Health Science Center

2023 Abbott Travel Awardees
Li Qiang, University of Lübeck
Christèle Aubry, Institute of Microbiology, Lausanne University Hospital
Pargev Hovhannisyan, University of Würzburg
Simone Adams, University of Cambridge
Madison D’Amico, University of Alabama at Birmingham
Julius Schachter (1936-2020)

Julius (Julie) Schachter, a leading expert on Chlamydia and trachoma, a Chlamydia-related eye infection, died on Dec. 20, 2020, due to complications caused by COVID-19. Schachter was born in the Bronx in 1936. He was the first in his family to attend college, receiving his bachelor's degree in chemistry from Columbia University in 1957, his master's degree in physiology from Hunter College in 1960, and his Ph.D. in bacteriology from the University of California, Berkeley, in 1965. After his Ph.D. studies, Schachter joined the University of California, San Francisco (UCSF), as an assistant research microbiologist. He remained at UCSF for 55 years, later becoming a professor of laboratory medicine.

Schachter's research focused on the epidemiology and clinical manifestations of chlamydial infection, along with the evaluation of diagnostics and treatments for chlamydial infections. A major portion of his research was on trachoma, a contagious bacterial infection caused by Chlamydia trachomatis. Up until the 1990s, trachoma was a leading cause of preventable blindness. In 1999, Schachter's research findings demonstrated that mass distribution of the oral antibiotic azithromycin was effective in treating the disease at a community-wide level in places where trachoma was epidemic.

Dr. Schachter published more than 500 articles on his studies of Chlamydiae. He served as the Director of the World Health Organization (WHO) Collaborating Center for Reference and Research on Chlamydiae from 1978 to 2003 and Chair of the Sexually Transmitted Diseases Diagnostic Initiative of the UNAIDS Programme from 1997 to 2001. He was an active member of the American Society for Microbiology (ASM) and a fellow and former governor of the American Academy of Microbiology. He was actively involved in research and writing throughout his life, reportedly working on at least 4 manuscripts at the time of his death.

Joseph Osikhueme Ugbodaga Igietseme (1955-2022)

Joseph Igietseme passed away in 2022 at the age of 67. Joseph (JUI to his friends) was a wonderful leader, teacher, mentor, and friend as well as a people and group builder. He believed in ensuring that everyone, including junior faculty, staff, and students was on the same page in every endeavor.

Dr. Igietseme received a Ph.D. in Immunology & Microbiology from Georgetown University, Washington, DC USA in 1987. He subsequently trained in infection & immunity at the University of Miami School of Medicine, Miami, Florida USA, and the University of Arkansas for Medical Sciences, Little Rock, AR USA, focusing on T cell immunity, immunoregulation & immunopathogenesis. He was appointed as Assistant Professor at the University of Arkansas for Medical Sciences, Little Rock, Arkansas from 1993 -1996, as Associate Professor at Morehouse School of Medicine, Atlanta Georgia from 1998-2002, and as Professor of Microbiology, Biochemistry & Immunology at Morehouse School of Medicine, Atlanta Georgia USA in 2002. He was appointed as Chief of the Molecular Pathogenesis Laboratory at the National Center for Infectious Disease, Centers for Disease Control and Prevention (CDC), Atlanta, Georgia USA in 2002. Dr. Igietseme has maintained a Secondary Professor position at Morehouse School of Medicine and Emory Medical School, Atlanta Georgia USA.

Joseph's research focused on basic and applied immunology, microbiology, pathogenesis, immunity & Vaccinology. These areas included elucidating the cellular, molecular, and biochemical mechanisms of immunity and immunopathogenesis, and designing effective delivery systems for vaccines against microbial agents. He was among the first to establish the key role of Th1 (versus Th2) immune response in Chlamydia control, a paradigm that has shaped Chlamydia vaccine development. He showed that the differential expression of miRNAs during chlamydial infection was associated with the cleavage of dicer, a caspase-sensitive, fertility-promoting ribonuclease III enzyme leading to infertility. He also established the role of epithelial-mesenchyme transition (EMT) in chlamydial pathogenesis, including infertility. Dr. Igietseme won the prestigious 2010 CDC Shepard Award for the most outstanding published research and received the 2010 Nakano Citation Award for outstanding research, indicating the national and international recognition of his research work. CBRS and the entire Chlamydia community have lost a rare gem, a great scientist who never failed to ask intuitive questions during presentations, especially at CBRS meetings. His humor, friendliness, and matter-of-fact nature will be missed by all.
SCIENTIFIC PROGRAM

* Undergraduate and Graduate student presenters
** Post-doctoral fellow presenters

Monday, March 20, 2023

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<th>Time</th>
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<tr>
<td>7:00</td>
<td>BREAKFAST (Capitol Ballroom 3 &amp; 4)</td>
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<td>8:15</td>
<td>Opening Remarks (Joanne Engel and Raphael Valdivia)</td>
<td>Capitol Ballroom 1 &amp; 2</td>
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<td>8:30</td>
<td>Remembrance (Joanne Engel)</td>
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<td>8:45-9:30</td>
<td><strong>Overview on Chlamydia Pathogenesis: Toni Darville</strong>&lt;br&gt;<strong>Understanding CT pathogenesis, a pathway to disease prevention</strong></td>
<td>Capitol Ballroom 1 &amp; 2</td>
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<td>Chlamydia environment: Microbiome and co-infection</td>
<td>Capitol Ballroom 1 &amp; 2</td>
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<td>CHAIRS: Deborah Dean; Catherine O’Connell</td>
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<td>9:30</td>
<td>Stephen Jordan*, Landon Wilson, Jie Ren, Kanupriya Gupta, Stephen Barnes, William Geisler&lt;br&gt;Indiana University, Indianapolis, IN, USA.&lt;br&gt;Natural clearance of Chlamydia trachomatis infection is associated with distinct differences in cervicovaginal metabolites.</td>
<td>Capitol Ballroom 1 &amp; 2</td>
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<td>Caleb Ardizzone*, Christopher Taylor, Rebecca Lillis, Renny Lan, Lindsay Pack, Jacob Elnaggar, Li Shen, Laxmi Yeruva, Alison Quayle&lt;br&gt;LSU Health Sciences Center, New Orleans, LA, USA.&lt;br&gt;Bacterial vaginosis-mediated modulation of humoral immunity to Chlamydia trachomatis.</td>
<td>Capitol Ballroom 1 &amp; 2</td>
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<td>Simon Graspeuntner**, Celeste Scholz, Katharina Koethke, Lea Semmler, Mariia Lupatsii, Ives Laumonnier, Peter König, Jan Rupp&lt;br&gt;University of Lübeck, Lübeck, Schleswig-Holstein, Germany&lt;br&gt;Progesterone-induced susceptibility to Chlamydia muridarum infection is dependent on the vaginal abundance of Enterococcus faecalis in mice.</td>
<td>Capitol Ballroom 1 &amp; 2</td>
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<td>Sankhya Bommana**, Yi-Juan Hu, Roselle Wang, Mike Kama, Reshma Kodimerla, Kenan Jijakli, Timothy Read, Deborah Dean&lt;br&gt;University of California San Francisco, Oakland, California, USA; Benioff Center for Microbiome Medicine, Oakland, California, USA.&lt;br&gt;The unique microbial composition, network and function of the endocervical and vaginal microbiomes of Pacific Islanders based on metagenomic shotgun sequencing.</td>
<td>Capitol Ballroom 1 &amp; 2</td>
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<td>10:30-10:45</td>
<td>BREAK (Pre-Function outside the Ballroom)</td>
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<td>10:45</td>
<td><strong>Chlamydia-host interaction- part 1</strong></td>
<td>Capitol Ballroom 1 &amp; 2</td>
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<td>CHAIRS: Travis Hewett; Agathe Subtil</td>
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<tr>
<td>11:00</td>
<td>George Aranjuez**, Travis Jewett&lt;br&gt;University of Central Florida, Orlando, Florida, USA&lt;br&gt;The early effector Tarp N-terminal region intersects with the host Hippo signaling pathway.</td>
<td>Capitol Ballroom 1 &amp; 2</td>
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<tr>
<td>11:15</td>
<td>Khavong Pha**, Cheriyn Elwell, Cuong Tran, Tina Solvik, Jessica Sherry, Andrew Frando, Kathleen Mirrashidi, Danielle Swaney, Nevan Krogan, Joanne Engel</td>
<td>Capitol Ballroom 1 &amp; 2</td>
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UCSF, San Francisco, CA, USA

Chlamydia trachomatis IncE employs molecular mimicry to reprogram host trafficking events during infection.

11:30 Adam Haines*, Christian Xander, Jordan Wesolowski, Fabienne Paumet
Thomas Jefferson University, Philadelphia, PA, USA.

The chlamydial effector InaC coordinates the reorganization of microtubules and actin via two functional domains.

11:45-12:00 GROUP PICTURE

12:00-1:30 LUNCH (Capitol Ballroom 3 & 4)
Lunch with RBs (Really Big Shots): Toni Darville, Ted Hackstadt

Vaccine development – part 1

CHAIRS: Toni Darville; Stephen McSorley

Capitol Ballroom 1 & 2

1:30 Amanda Collar, Tegan Clarke, Andzoa Jamus, Zoe Wilton, Susan Core, Kathryn M. Frietze
University of New Mexico, Albuquerque, NM, USA.

High-titer IgG elicited by a bacteriophage virus-like particle displaying a short linear epitope of the Major Outer Membrane Protein protect against urogenital Chlamydia infection.

1:45 Nicholas Fischer, Wei He, Amy Rasley, Sandra Peters, Dina Weilhammer, Abisola Abisoye-Ogunniyan, Feliza Bourguet, Dominique Hall, Sukumar Pal, Luis de la Maza, Toni Darville, Matthew Coleman
Lawrence Livermore National Laboratory, Livermore, CA, USA.

Evaluating immunological responses of mRNA-based Chlamydia vaccines.

2:00 Jacob Dziadula, Steffanie Sabbaj, Kanupriya Gupta, Hong Yu, Bob C. Brunham, William M. Geisler
University of Alabama at Birmingham, Birmingham, AL, USA.

IFN-gamma responses to Chlamydia trachomatis vaccine candidate proteins in Chlamydia-infected women with different Chlamydia outcomes.

2:15 Taylor Poston, Jenna Girardi, Yanli Li, Logan Trim, Jonathan Harris, Catherine O'Connell, Kenneth Beagley, Nilu Goonetilleke, Toni Darville
University of North Carolina at Chapel Hill, Chapel Hill, NC, USA.

Using natural immunity to help guide the preclinical assessment and rational design of Chlamydia vaccines in mice.

2:30 Samuel Phillips**, Praphaporn Stewart, Rachel Schauerman, Jon Hanger, Peter Timms
University of the Sunshine Coast, Centre for Bioinnovation, Sippy Downs, Queensland, Australia.

Development towards a Chlamydia pecorum vaccine for koalas; vaccine longevity, population effects, and future directions.

2:45 Yihui Wang*, Ying He, Ann Frisesnhanhn, Maegan French, Jenelle Zhong, Halah Winner, Guangming Zhong
University of Texas Health Science Center at San Antonio, San Antonio, Texas, USA; China Agricultural University, Beijing, Beijing, China.

IL-23 receptor signaling in the induction of IFNγ-producing group 3-like innate lymphoid cells during chlamydial infection in the colon.

3:00-3:30 BREAK (Pre-Function outside the Ballroom)

Chlamydia division and differentiation

CHAIRS: Gilbert Greub; John Cox

Capitol Ballroom 1 & 2

3:30 McKenna Harpring*, Scot Ouellette, Guangming Zhong, John Cox
University of Tennessee Health Science Center, Memphis, TN, USA.

The role of FtsK in Chlamydia divisome assembly.

3:45 Travis Chiarelli, Nicole Greishaber, Cody Appa, Scott Grieshaber
University of Idaho, Moscow, ID, USA.

12
Computational modeling of the chlamydial developmental cycle reveals a potential role for asymmetric division.

4:00 Julia Dannenberg*, Junghoon Lee, George Liechtli, Christian Otten, Iris Lückener, Jula Reuter, Anna Klöckner, Sebastian Kranich, Tanja Schneider, Scot Ouellette, Beate Henrichfreise Institute for Pharmaceutical Microbiology, University of Bonn/University Hospital Bonn, Bonn, North Rhine-Westphalia, Germany. C. trachomatis AmiA: new insight into function, architecture, and inhibition of a unique cell division amidase.

4:15 Nicholas Wood*, Abigail Swoboda, Shiomi Kuwabara, Derek Fisher, Scot Ouellette UNMC, Omaha, NE, USA. Identification of ClpX substrates demonstrates the role of ClpX during secondary differentiation in Chlamydia trachomatis.

4:30 – 4:55 Lightning talks 1 (#) Capitol Ballroom 1 & 2

CHAIR: Mary Weber


Leen Raed Khaled Arnaout*, Sankhya Bommana, Timothy Read, Deborah Dean UC Berkeley-UCSF Graduate Program in Bioengineering, Berkeley, CA, USA. (Poster A9) Comparative phylogenetic and genetic analysis of selected virulence-associated genes among 190 Trachoma-causing Chlamydia trachomatis ocular strains.

Christèle Aubry*, Alexander Sturm, Carole Kebbi Baghdadi, Gino Cathomen, Danuta Cichocka, Gilbert Greub Institute of Microbiology, Lausanne University Hospital and Lausanne University, Lausanne, Vaud, Switzerland. (Poster A4) Nanomotion: an innovative method to study intracellular bacteria such as Chlamydia trachomatis and Waddlia chondrophila.


Anusha Gopalakrishnan, Raphael Valdivia Duke University, Durham, NC, USA. (Poster A21) When Chlamydia STINGs, it's not always bad!

Xavier Tijerina*, Robert Faris, Mary Weber University of Iowa, Iowa City, IA, USA. (Poster A18) Chlamydia Trachomatis effector CT229/CpoS interacts with SNARE-like domain containing inclusion membrane proteins.

Kaylyn Scanlon*, Kenneth Fields, Travis Jewett University of Central Florida, Orlando, FL, USA. (Poster A19) Chlamydia trachomatis early effector TmeB inhibits Arp2/3 driven actin polymerization.

4:55-5:15 BREAK (Pre-Function outside the Ballroom)

5:15 - 6:00 Taxonomy sub-committee (restricted to the members of this sub-committee)

5:15 -7:10 POSTER SESSION A Pre-function outside the Ballroom

NOTE: Odd numbers during the first hour- Even numbers during the second hour
A1 Kaylee Jacobs*, Xiaoli Zhang, David Nelson
Indiana University School of Medicine, Indianapolis, IN, USA
Invading evaders: Identifying determinants of interferon-gamma resistance and tissue tropism in Chlamydia muridarum.

A2 # Forrest C. Walker**, Daniel J. Minahan, Katherine M. Nelson, Jason P. Gleghorn, Isabelle Derré
University of Virginia, Charlottesville, VA, USA.
A novel 3D human endocervical biomimetic for modeling Chlamydia trachomatis infection.

A3 Weidang Li, Erika Wright-McAfee, Katerina Warda, Lindsay Moy, Nghi Bui, Tarakarama Musunuri, Clemence Chako, Kyle Ramsey, Ashlesh Murthy
Midwestern University, Glendale, AZ, USA.
Protective anti-chlamydial vaccine regimen-induced CD4+ T cell response mediates early inhibition of pathogenic CD8+ T cell response following genital challenge.

A4 # Christèle Aubry*, Alexander Sturm, Carole Kebbi Beghdadi, Gino Cathomen, Danuta Cichocka, Gilbert Greub
Institute of Microbiology, Lausanne University Hospital and Lausanne University, Lausanne, Vaud, Switzerland.
Nanomotion: an innovative method to study intracellular bacteria such as Chlamydia trachomatis and Waddlia chondrophila.

A5 Jorge Costa da Silva*, Zohra Lodhia, Dora Cordeiro, Inês João, Cristina Correia, Luís Vieira, João Paulo Gomes, Vítor Borges, Maria Borrego
National Institute of Health, Lisbon, Lisbon, Portugal
Survey of genomic features that putatively contribute to antimicrobial resistance in Chlamydia trachomatis.

A6 # Zoe Dimond**, Laura Bauler, Ted Hackstadt
Rocky Mountain Labs, NIAID, NIH, Hamilton, MT, USA.
Chlamydia trachomatis alters mitochondrial protein composition and secretes effector proteins that target mitochondria.

A7 Lin Liang*, Jizhang Zhou
LVRI, CAAS, Lanzhou, Gansu, China
Molecular prevalence of Chlamydia spp in Yak (Bos grunniens) in the Tibetan Plateau of China.

A8 Joanna Olivas*, Catarina Nogueira, Michael Starnbach
Harvard Medical School, Boston, MA, USA
Defining the role of IFNy-induced Major Histocompatibility Complex Class II expression on uterine non-hematopoietic cells during C. trachomatis infection and Granzyme B expression by CD4+ Th1 cells.

A9 # Leen Raed Khaled Arnaout*, Sankhya Bommana, Timothy Read, Deborah Dean
UC Berkeley-UCSF Graduate Program in Bioengineering, Berkeley, CA, USA
Comparative phylogenetic and genetic analysis of selected virulence-associated genes among 190 Trachoma-causing Chlamydia trachomatis ocular strains.

A10 Nicole Reinhold-Larsson*, Robert Suchland, Daniel Rockey, Kevin Hybiske, Michael Starnbach
Harvard Medical School, Boston, MA, USA.
Identifying Chlamydia trachomatis virulence factors that inhibit adaptive immunity.

Department of Medicine, Division of Infectious Diseases, University of Alabama at Birmingham, Birmingham, Alabama, USA.
Chlamydia trachomatis-specific antibody responses in women with secondary infertility in Cameroon.

A12 FNU Medhavi*, Tayhlor Tanner, Yusuf Omosun, Francis Eko, Shakyra Richardson, Courtnee Bell, Leandra Jones
Morehouse School of Medicine, Atlanta, GA, USA.
Intramuscular immunization with rVCG-MECA vaccine elicits a stronger chlamydial-specific immune response than intranasal immunization.

Jessica Sherry, Komal Tambve, Robyn Kaake, Lee Dolat, Robert Bastidas, Eleanor McMahon, Raphael Valdivia, Cherilyn Elwell, Kiment Verba, Joanne Engel
UCSF, San Francisco, CA, USA. "Duke, Durham, NC, USA

Chlamydia trachomatis effector Dre1 interacts with dynactin to reposition host organelles during infection.

Carole Kebbi-Beghdadi, Ludovic Pilloux, Gilbert Greub
Institute of Microbiology, Lausanne University Hospital and Lausanne University, Lausanne, Vaud, Switzerland

The type three secretion system of Waddlia chondrophila.

Magnus Ölander**, Daniel Rea, Lieke Mooij, Johanna Fredlund, Fabiola Puertolas-Balint, Karsten Meier, Karin van der Wal, Björn Schröder, André Mateus, Barbara Susanne Sixt
Department of Molecular Biology: The Laboratory for Molecular Infection Medicine Sweden (MIMS); Umeå Centre for Microbial Research (UCMR), Umeå University, Umeå, Västerbotten, Sweden.

Inc proteins facilitate VAMP3 recruitment to the Chlamydia trachomatis inclusion membrane.

Magnus Ölander**, Daniel Rea, Lieke Mooij, Johanna Fredlund, Fabiola Puertolas-Balint, Karsten Meier, Karin van der Wal, Björn Schröder, André Mateus, Barbara Susanne Sixt
Department of Molecular Biology: The Laboratory for Molecular Infection Medicine Sweden (MIMS); Umeå Centre for Microbial Research (UCMR), Umeå University, Umeå, Västerbotten, Sweden.

Discovery of novel anti-chlamydial compounds through a multi-strategy screening approach.

Shiomi Kuwabara*, Aamal Al-Saadi, Zachary Zappa, Derek Fisher
Southern Illinois University Carbondale, Carbondale, Illinois, USA

The partner switching mechanism anti-anti-Sigma factor RsbV2 plays a crucial role in Chlamydia trachomatis development.

Xavier Tijerina*, Robert Faris, Mary Weber
University of Iowa, Iowa City, IA, USA

Chlamydia Trachomatis effector CT229/CpoS interacts with SNARE-like domain containing inclusion membrane proteins.

Kaylyn Scanlon*, Kenneth Fields, Travis Jewett
University of Central Florida, Orlando, FL, USA.

Chlamydia trachomatis early effector TmeB inhibits Arp2/3 driven actin polymerization.

Lili Shao, Quanzhong Liu
Tianjin Medical University, Tianjin, Tianjin, China

Does Chlamydia trachomatis phage really exist? Detection and exploration.

Anusha Gopalakrishnan, Raphael Valdivia
Duke University, Durham, NC, USA.

When Chlamydia STINGS, it’s not always bad!

Haitong Mao*, Michael Starnbach
Harvard Medical School, Boston, MA, USA

Induction of dendritic cell death by Chlamydia trachomatis.

Cherilyn Elwell, Amy Diallo, Barbara Sixt, Jessica Sherry, Khavong Pha, Merve Cakir, Danielle Swaney, Mick Eran, Chaz Langlier, Raphael Valdivia, Nevan Krogan, Oren Rosenberg, Joanne Engel
UCSF, San Francisco, CA, USA.

Characterizing the role of the Chlamydia trachomatis inclusion membrane protein CT226 with the multiprotein LRRFIP-FLII complex.

Pargev Hovhannisyan*, Cindrilla Chumduri, Thomas Rudel
University of Würzburg, Würzburg, Bavaria, Germany

Chlamydia trachomatis infection in human fallopian tube polarized epithelial cell culture model.

Abigail DeBrine*, P. Andrew Karplus, Stephen Ramsey, Daniel Rockey
Oregon State University, Corvallis, OR, USA

Alphafold2-based modeling predicts a structural role for signature short peptide motifs in Chlamydia spp. Pmp proteins.

Parker Smith, Paige McCaslin, Brianna Steiert, Shelby Andersen, Carolina Icardi, Mary Weber
Identification and preliminary functional characterization of Chlamydia trachomatis type III secreted effector proteins.

A27 Steven Hoang-Phou**, Mahmoud Abdelrasoul, Megan Shelby, Mariam Mohagheghi, Byron Vannest, Sally Hall, Aleksandr Noy, Matthew A. Coleman
Lawrence Livermore National Laboratory, Livermore, CA, USA
Biophysical characterization of the chlamydial type three secretion system translocon pore.

A28 Jeonghoon Lee**, Rosalie Warner, Nichole Brandquist, Scot Ouellette
University of Nebraska Medical Center, Omaha, Nebraska, USA, Omaha, NE, USA
Alterations in cyclic-di-AMP levels affect chlamydial developmental cycle progression.

A29 Anja W. Olsen, Ida Rosenkrands, Jes Dietrich, Frank Follmann
Statens Serum Institut, Copenhagen S, Zealand, Denmark.
Longevity of immunity and protection following CTH522:CAF®01 vaccination in mice.

A30 Jabeena C.A**
University of Iowa, Iowa City, Iowa, USA
Biochemical and functional characterization of Chlamydia trachomatis inclusion membrane protein, CT229 (CpoS), and its role in the subversion of host cell trafficking.

A31 Sophie Hügelschäffer*, Daniela Auer, Thomas Rudel
Department of Microbiology, University of Würzburg, Biocenter, Würzburg, Bavaria, Germany
Interplay of a chlamydial deubiquitinase and a host cell ubiquitin E3 ligase during Chlamydia trachomatis infection.

A32 Sukumar Pal, Delia F. Tifrea, Jennifer R. Carmichael, Anatoli V. Slepenkin, Luis M. de la Maza
University of California Irvine, Irvine, CA, USA
Development of a mouse model of genital infection and infertility following an intrabursal or transcervical infection with the oculogenital serovars of C. trachomatis.

A33 Guangming Zhong
University of Texas HSC SA, San Antonio, TX, USA
Studying chlamydial infection and pathogenesis in mice inoculated with Chlamydia muridarum or Chlamydia trachomatis.

A34 Noopur Dasgupta*, Prakash Sah and Erika Lutter.
Oklahoma State University, Stillwater, Oklahoma, USA
Chlamydia trachomatis recruits PKA and phosphorylated PKA substrates during infection.

A35 Madison Dresler*, Shannon Breen, Da’Vonti Hardrick, Lucie Berclaz, Alexandria Taylor, Isabel DiBiasio-Hudson, Rebecca Lijek
Mount Holyoke College, South Hadley, MA, USA
Depo Provera downregulates the expression of genes involved in maintaining the mucosal immune barrier and protecting against Chlamydia infection in the murine female genital tract.

A36 Paula Bravver*, Kacy Yount, Catherine O’Connell
University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, USA
Quantitation of fluorescent chlamydial gene reporter expression by flow cytometry enables investigation of responses to immunological and environmental stress in real-time.

A37 Wei He, Amy Rasley, Sandra Peters, Dina Weilhammer, Abisola Abisoye-Ogunniyan, Feliza Bourguet, Dominique Hall, Patrik D’haeseleer, Mariam Mohagheghi, Steven Hoang-Phou, Sukumar Pal, Luis de la Maza, Matthew Coleman, Nicholas Fischer
Lawrence Livermore National Laboratory, Livermore, CA, USA
Developing self-amplifying mRNA-based vaccines expressing predicted Chlamydia trachomatis MOMP B- and T-cell epitopes.

7:00 DINNER ON YOUR OWN
Tuesday, March, 21, 2023

7:00-8:30 BREAKFAST (Capitol Ballroom 3 & 4)

8:30-9:15 Overview of Chlamydia Cell Biology: Ted Hackstadt
Cell Biology: many questions and opportunities

Chlamydia-host interactions – part 2
CHAIRS: Cherilyn Elwell; Robert Bastidas

9:15 Karsten Meier, Lana H. Jachmann, Mohammed Rizwan Babu Sait, Samada Muraleedharan, Lucia Pérez Jiménez, Oliver Kepp, Raphael H. Valdivia, Guido Kroemer, Barbara S. Sixt
Department of Molecular Biology, Umeå University; The Laboratory for Molecular Infection Medicine Sweden (MIMS); Umeå Centre for Microbial Research (UCMR), Umeå University, Sweden.

A CRISPR screen reveals specific demands for host lipids in a Chlamydia trachomatis mutant deficient for the host membrane trafficking modulator CpoS.

9:30 Abraham Gutierrez**, Roseleen Ekka, Ming Tan, Christine Sütterlin
University of California, Irvine, Irvine, California, USA

Disassembly of the primary cilia is necessary for a Chlamydia trachomatis infection.

9:45 Erin Smith**, Raphael Valdivia
Duke University, Durham, NC, USA

Uncovering Chlamydia pathogenesis at single-cell resolution.

10:00 Sebastian Wintgens, Filip Hasecke, Nadine Rösener, Wolfgang Hoyer, Johannes H. Hegemann
Institute of Functional Microbial Genomics, Heinrich-Heine-University Düsseldorf, Düsseldorf, NRW, Germany.

A possible link between the Chlamydia pneumoniae Pmp21 adhesin and Alzheimer’s disease.

10:15-10:45 BREAK (Pre-Function outside the Ballroom)

Vaccine development- part 2
CHAIRS: William Geisler; Kathryn Frietz

10:45 Logan Trim*, Darren Leahy, Jonathan Harris, Yanli Li, Joanna Warren, Jenna Girardi, Taylor Poston, Nilu Goonetilleke, Alison Carey, Toni Darville, Kenneth Beagley
Queensland University of Technology, Brisbane, QLD, Australia.

Defining novel antigens through reverse vaccinology that are protective against pathology in the mouse model of chlamydial infection.

11:00 Vanessa Limbert*, Alyse Diamond, Claire Callahan, James McLachlan
Tulane University, New Orleans, LA, USA

Using parenteral combination adjuvants to induce mucosal immunity against Chlamydia muridarum.

11:15 Zana Essmyer, Besmir Hyseni, Wei He, Dillon Vannest, Sean Gilmore, Steven Hoang-Phou, Matthew Coleman, Viollca Konjufca
Southern Illinois University, Carbondale, IL, USA.

Per-oral immunization with MOMP antigen induces protective immunity against Chlamydia muridarum genital challenge.

11:30-12:30 Introduction by William Geisler

Leandro Mena, MD, MPH
CDC new Director of the Division of STD Prevention
Disparities and inequalities in STIs (Virtual Presentation)

Dr. Mena is a clinician-researcher and public health advocate with expertise in the prevention and clinical management of STIs and the human immunodeficiency virus (HIV). He brings a wealth of experience
and has held numerous positions over his 29-year career in the fields of public health and medicine in academia, research, and professional association management. His interests include understanding the dynamics of STI transmission in racial/ethnic, gender, and sexual minorities, as well as the development and provision of culturally competent quality health services to these populations.

(All are welcome)

12:30 BOX LUNCH, OPEN AFTERNOON

Museums:
- Durham Museum (0.9 miles) - History Museum of Western U.S. with unique railroad car exhibits and art deco architecture.
- Kaneko (0.8 miles)- Sculpture Museum with interactive exhibits.
- Bemis Center for Contemporary Arts - (0.9 miles) Art and music residents engage with the public through performances and lectures.
- Joslyn Castle (2.5 miles) - Turn-of-the-century mansion in midtown with unique wood accents and gardens.
- Union Pacific Railroad Museum (4.7 miles)

Outdoors:
- Henry Doorly Zoo and Aquarium (2.4 miles) - World-renowned, features the jungle dome, desert dome, primate center, penguin and jellyfish rooms
- Lauritzen Gardens (2.7 miles) – Botanical gardens with indoor greenhouses
- Gene Leahy Mall (0.4 miles) - Newly renovated with canals, slides, and sculptures
- Bob Kerry Pedestrian Bridge (1.7 miles) – Walk across the Missouri River to park in Iowa

DINNER ON YOUR OWN

6:00 BUSINESS DINNER – INVITATION ONLY
Wednesday, March, 22, 2023

7:00-8:30 BREAKFAST (Capitol Ballroom 3 & 4)

8:30-9:15 Overview on Chlamydia Immunology: Michael Starnbach Capitol Ballroom 1 & 2
Chlamydia stimulates many immune responses… but which matter?

Immunology of Chlamydia infection – part 1 Capitol Ballroom 1 & 2
CHAIRS: Francis Eko; Joern Coers

9:15 Yanli Li**, Joanna Warren, Taylor Poston, Fiona Shaw, Shayla Conrad, Yinyan Xu, Xiaojing Zheng, Catherine O'Connell, Sharon L Hillier, Harold Weisenfeld, Toni Darville, Nilu Goonetilleke Department of Microbiology and Immunology, UNC at Chapel Hill, Chapel Hill, NC, USA.
Identification of CPAF as the immunoprevalent antigen of Chlamydia trachomatis.

9:30 John Ryan*, Evelyn Toh, Stephen Jordan, David Nelson Indiana University School of Medicine, Indianapolis, IN, USA
Anti-Chlamydia antibodies in first-catch urine from males with acute Chlamydia trachomatis mono-infection or idiopathic non-gonococcal urethritis.

9:45 Arkaprabha Banerjee*, Yuan Sun, Matthew Muramatsu, Evelyn Toh, David Nelson Indiana University School of Medicine, Indianapolis, IN, USA.
CTL0225 contributes to Chlamydia nutritional virulence and immune evasion.

10:00 Kacy S Yount**, Avinash Kolippara, Chuwen Liu, Xiaojing Zheng, Charles Bruce Bagwell, Chi-Jane Chen⁴, Natalie Stanley, Harold C Wiesenfeld, Sharon Hillier, Toni Darville Department of Pediatrics, University of North Carolina at Chapel Hill, Chapel Hill, NC, USA.
CD4 effector memory T cells are associated with protection from Chlamydia trachomatis (CT) reinfection in a cohort of exposed women.

10:15-10:45 BREAK (Pre-Function outside the Ballroom)

Chlamydia-host interaction - part 3 Capitol Ballroom 1 & 2
CHAIRS: Barbara Sixt; Richard Hayward

10:45 Maria Cortina**, Clayton Bishop, Brittany De Vasure, Isabelle Coppens, Isabelle Derré Department of Microbiology, Immunology and Cancer Biology, University of Virginia, Charlottesville, VA, USA.
Deciphering IncS function at different stages of the Chlamydia developmental cycle.

11:00 Brianna Steiert*, Carolina Icardi, Paige McCaslin, Robert Faris, Aloysius Klingenlutz, Peter Yau, Mary Weber University of Iowa, Iowa City, IA, USA.
The Chlamydia trachomatis type III secreted effector protein CteG induces centrosome amplification through interactions with centrin-2.

11:15 Robert Bastidas, Mateusz Kedzior, Lee Dolat, Barbara Sixt, Jonathan Pruneda, Raphael Valdivia Duke University, Durham, NC, USA.
The dual acetylase/deubiquitinase Cdu1 requires its acetylase activity to protect Chlamydia effectors from degradation and promote bacterial exit from infected cells.

11:30 Clara Herrera*, Cherilyn Elwell, Kathleen Mirrashidi, Jessica Sherry, Eleanor Mcmahon, Merve Cakir, Natalie Sturd, Meredith Stevers, David Solomon, Mary Weber, Scot Ouellette, Elizabeth Rucks, Danielle Swaney, Joanne Engel University of California, San Francisco, San Francisco, CA, USA.
Decoding the role of the interaction between the C. trachomatis inclusion membrane protein CT224 and the host ubiquitin ligase TRAF7 during infection.

11:45 Amanda Brinkworth, Francis Fontanilla, Rey Carabeo Dept. of Pathology and Microbiology, University of Nebraska Medical Center, Omaha, NE, USA
Chlamydia trachomatis reduces key factors in culture to prevent IFN-gamma signaling and increase spread of infection.

12:00-12:30 BUSINESS MEETING (vote for the president-elect and councilors) Capitol Ballroom 1 & 2

12:30-1:45 LUNCH (Capitol Ballroom 3 & 4)

⇒ Lunch with RBs (Really Big Shots): Michael Starnbach, Raphael Valdivia

Genetic manipulation of Chlamydia
CHAIRS: Nicole Grieshaber, Kate Wolf

1:45 Janina Ehses**, Kevin Wang, Cuper Ramirez, Asha Densi, Ming Tan, Christine Sütterlin
University of California, Irvine, Irvine, CA, USA

A novel sRNA-mediated conditional knockdown system in Chlamydia trachomatis.

2:00 Bin Lu1, Yuxuan Wang, Wurihan Wurihan, Sydney Yeung, Xiang Wu, Huizhou Fan
Rutgers Robert Wood Johnson Medical School, Piscataway, NJ, USA.

DOPE (dependence on plasmid-mediated expression) reveals an essential role for GrgA in RB-to-EB differentiation.

2:15 Experimental session: Genetic manipulation (tips and challenges)
Panel discussion with:
Kate Wolf
Scot Ouellette
Derek Fisher
Isabelle Derré

3:00-3:30 BREAK (Pre-Function outside the Ballroom)

Host response to Chlamydia infection
CHAIRS: Guangming Zhong; Georg Haëcker

3:30 Stephen Walsh*, Jeffrey Reitano, Mary Dickinson, Miriam Kutsch, Dulcemaria Hernandez, Alyson Barnes, Benjamin Schott, Liuyang Wang, Dennis Ko, So Young Kim, Raphael Valdivia, Robert Bastidas, Jörn Coers
Duke University, Durham, NC, USA

How Chlamydia GarDs its home from a Mysterin-ous host defense.

3:45 Chongfa Tang, Béatrice Niragire, Zhi Li, Sandra Pelligrini, Agathe Subtil, Yongzheng Wu1,2
1Institut Pasteur, Paris, Île-de-France, France. 2CNRS UMR3691, Paris, Île-de-France, France

IFN-I exacerbates the proinflammatory response of epithelial cells to C. trachomatis infection.

4:00 Chloé Charendoff, Laure Blanchet, Stéphanie Perrinet, Yongzheng Wu, Lee Dolat, Raphael Valdivia, Slimane Ait-Si-Ali, Mariette Matondo, Agathe Subtil
Institut Pasteur, CNRS, Paris, France.

Epigenetic consequences of the metabolic imprint of C. trachomatis infection.

4:15 Tamara Halter, Astrid Collingro, Stephan Köstlbacher, Tamara Löwenstern, Martin Kunert, Frederik Hendrickx, Rok Kostanjšek, Matthias Horn
University of Vienna, Vienna, Vienna, Austria.

Host-adaptation and pathogenicity occur via genome streamlining and differential gene expression in rhabdochlamydiae.

4:30-5:00 Lightning talks 2 (##)
CHAIR: Derek Fisher

Andzoa Jamus*, Zoe Wilton, Vanessa Vazquez, Susan Core, Kathryn Frietze
University of New Mexico, Albuquerque, NM, USA
(Poster B25) Male urogenital infection models for investigating vaccines against Chlamydia.

Anatoli Stepenkin, Sukumar Pal, Steven Allen Hoang-Phou, Abisola Ruth Abisoye-Ogunniyan, Amy
The polymorphic membrane protein G has a neutral effect and the plasmid glycoprotein 3 an antagonistic effect on the ability of the major outer membrane protein to elicit protective immune responses against a Chlamydia muridarum respiratory challenge.

Chlamydia trachomatis modulates the expression of JAK-STAT signaling components to attenuate the Type II interferon response in epithelial cells.

Characterizing the role of Cta1 in establishing an immune response in a Chlamydia trachomatis infection.

Establishing dualRNAseq of Chlamydia trachomatis-infected primary human neutrophils.

Chlamydia psittaci-specific Pmp19G activates early invasion by upregulating macrophage autophagy via NOD1 and ATG16L1 pathway.

Establishing dualRNAseq of Chlamydia trachomatis-infected primary human neutrophils.

5:00-5:15 BREAK (Pre-Function outside the Ballroom)

5:15-7:00 POSTER SESSION B Pre-Function outside of Ballroom

NOTE: Odd numbers during the first hour - Even numbers during the second hour

## Lightning talk on Wednesday

**B1** Hanna Marti**, Kensuke Shima, Delia Onorini, Jan Rupp, Steve J. Charette, Nicole Borel
University of Zurich, Zurich, ZH, Switzerland.

A truncated antibiotic resistance-carrying plasmid pRAS3-3432 was transformed into Chlamydia suis following modification with chromosomal DNA.

**B2** William Geisler, Howard Wiener, Kanupriya Gupta, Hemant Tiwari
University of Alabama at Birmingham, Birmingham, AL, USA

HLA-DQB1*06 and select neighboring HLA variants predict Chlamydia reinfection risk.

**B3** Enrique Rayo**, Delia Onoroni, Cory Leonard, Mariia Lupatsii, Theresa Pesch, Robert Schoborg, Simon Graspeuntnner, Nicole Borel
Institute of Veterinary Pathology, University of Zurich, Zurich, Zurich, Switzerland.

Progestosterone-free Chlamydia muridarum infection impacts the murine vaginal microbiota.

**B4** Kathrin Stelzner**, Esteban Ceballos, Bjoern Wecklein, Alexander Westermann, Thomas Rudel
University Wuerzburg, Wuerzburg, Wuerzburg, Bavaria, Germany.

Establishing dualRNAseq of Chlamydia trachomatis-infected primary human neutrophils.

**B5** Francis Fontanilla*, Rey Carabeo, Amanda Brinkworth
University of Nebraska Medical Center, Omaha, NE, USA

Chlamydia trachomatis modulates the expression of JAK-STAT signaling components to attenuate the Type II interferon response in epithelial cells.

**B6** Qiang Li*, Hendrik Jansen, Tamás Laskay, Jan Rupp, Kensuke Shima
University of Lübeck, Lübeck, Schleswig-Holstein, Germany; China Agricultural University, Beijing, Beijing, China.

Diverse neutrophil responses caused by vascular isolates of Chlamydia pneumoniae.

**B7** Paige McCaslin, Robert Faris, Brianna Steiert, Shelby Andersen, Carolina Icardi, Mary Weber
University of Iowa, Iowa City, IA, USA.  
*The Chlamydia trachomatis secreted effector protein CT181 binds to the apoptosis regulator, Mcl-1, to promote infection.*

B8 Dominik Spona, Philipp Hanisch, Johannes Hegemann, Katja Mölleken  
Functional Microbial Genomics, Heinrich-Heine-University, Düsseldorf, NRW, Germany  
*The membrane targeting effector proteins of Chlamydia pneumoniae.*

B9 ### Andrea Lebron Figueroa*, Eric Dumas, Michael Starnbach  
Harvard Medical School, Boston, MA, USA  
*Characterizing the role of Cta1 in establishing an immune response in a Chlamydia trachomatis infection.*

B10 Sharvath Kathi*, Nicholas Wood, Scot Ouellette, Derek Fisher  
Southern Illinois University Carbondale, Carbondale, Illinois, USA.  
*Characterization of the Chlamydia trachomatis single-stranded DNA binding protein and investigation of its role as an adaptor for ClpX.*

B11 Colleen Monahan*, Hong Yang, Anders Omsland  
Washington State University, Pullman, WA, USA  
*Determining the role of obgE during Elementary Body germination in the human pathogen Chlamydia trachomatis.*

B12 Korinn Murphy, Rey Carabeo  
University of Nebraska Medical Center, Omaha, NE, USA  
*The Chlamydia type III effectors TarP and CTL0480 regulate different facets of focal adhesion biology.*

B13 Caleb Ardizzone, Christopher Taylor, Rebecca Lillis, Renny Lan, Lindsay Pack, Jacob Elnaggar, Li Shen, Laxmi Yeruva, Alison Quayle  
LSU Health Sciences Center, New Orleans, LA, USA.  
*Impact of bacterial vaginosis (BV) and its treatment on Chlamydia trachomatis growth in the human cervix.*

B14 Tyler Zimmerman*, Nick Pokorzynski, Rey Carabeo  
University of Nebraska Medical Center, Omaha, NE, USA.  
*A Putative mathematical model for the Trp operon of Chlamydia trachomatis.*

B15 Tayhlor Tanner*, FNU Medhavi, Shakyra Richardson, Leandra Jones, Courtnee Bell, Joseph Ijetseme, Eko Francis  
Morehouse School of Medicine, Atlanta, GA, USA.  
*Immunization with the chlamydial multi-epitope antigen MECA elicits Chlamydia-specific systemic and mucosal immune responses.*

B16 Jordan Wesolowski, Fabienne Paumet  
Thomas Jefferson University, Philadelphia, PA, USA  
*Homotypic fusion alters the host cell response to infection.*

B17 Vincent Baudouin**, Agathe Subtil  
Institut Pasteur, Paris, Ile-de-France, France  
*Investigation of the action of immunoglobulins on Chlamydia trachomatis development in human polarized endocervical cells.*

B18 Jiaqi Liu*, Huilong Hu, Yihui Wang, Rongze He, Cheng He  
Key Lab of Animal Epidemiology and Zoonoses of Ministry of Agriculture and Rural Affairs, College of Veterinary Medicine, China Agricultural University, Beijing, Beijing, China  
*A live attenuated Duck Enteritis Virus encoding Pmp17G protein of Chlamydia psittaci induced protective immune response in ducklings.*

B19 Rainish Sahu**, Aguy Clemence Nguiakam Sipowe, Vanella Tadjuidje, William M. Geisler, Barbara Van Der Pol, Vida A. Dennis  
Alabama State University, Montgomery, Alabama, USA.  
*Serological cross-recognition of Chlamydia trachomatis human serovars by a recombinant MOMP nanoencapsulated vaccine-induced antibodies in mice.*
B20 Legacy Durham, Natalie Sturd, Scot Ouellette, Lisa Rucks
University of Nebraska Medical Center, Omaha, Nebraska, USA
Characterization of the collaborative functions of Chlamydial proteins CT225 and CT224.

B21 Ida Rosenkrands, Anja W. Olsen, Max P Kristiansen, Frank Vollmann
Statens Serum Institut, Copenhagen, Zealand, Denmark
Dissection of the human antibody response elicited after vaccination with the CTH522:CAF01 vaccine.

Statens Serum Institute, Copenhagen, Zealand, Denmark
The protective role of specific T cell subsets against infection with Chlamydia trachomatis.

B23 Anatoli Slepenkin, Sukumar Pal, Steven Allen Hoang-Phou, Abisola Ruth Abisoye-Ogunniyan, Amy Rasley, Patrik D'haeseleer, Matthew A. Coleman, Luis M. de la Maza
University of California Irvine, Irvine, CA, USA.
The polymorphic membrane protein G has a neutral effect and the plasmid glycoprotein 3 an antagonistic effect on the ability of the major outer membrane protein to elicit protective immune responses against a Chlamydia muridarum respiratory challenge.

B24 Zoe Wilton*, Andzoa Jamus, Susan Core, Amanda Collar, Kathryn M. Frietze
University of New Mexico, Albuquerque, NM, USA
Evaluating the mechanisms of protection elicited by Qβ bacteriophage virus-like particle vaccines against Chlamydia.

B25 Andzoa Jamus*, Zoe Wilton, Vanessa Vazquez, Susan Core, Kathryn Frietze
University of New Mexico, Albuquerque, NM, USA
Male urogenital infection models for investigating vaccines against Chlamydia.

B26 Mariam Mohagheghi, Steven Hoang-Phou, Byron Vannest, Sally Hall, Megan Shelby, Brent Segelke, Abisola Abisoye-Ogunniyan, Amy Rasley, Sukumar Pal, Luis de la Maza, Matthew Coleman
Lawrence Livermore National Laboratory, Livermore, CA, USA.
Cell-free screening and production of chlamydial membrane-bound proteins.

B27 Natalie Sturd*, Scot Ouellette, Lisa Rucks
University of Nebraska Medical Center, Omaha, NE, USA
Determining the mechanism of Flightless 1 recruitment to the chlamydial inclusion membrane.

B28 Fabienne Wagner*, Kathrin Stelzer, Fabian Schumacher, Burkhard Kleuser, Thomas Rudel
Julius-Maximilians-Universität of Würzburg, Würzburg, Bavaria, Germany
Role of sphingosine during infection of human neutrophils with C. trachomatis.

B29 Adriana Moldovan**, Sandra Radziej, Nadine Vollmuth, Wolfgang Eisenreich, Thomas Rudel
Chair of Microbiology, University of Würzburg, Würzburg, Bavaria, Germany.
Chlamydia trachomatis: life within the human macrophage.

B30 Monisha R Alla*, Nick Pokorzynski, Rey Carabeo
University of Nebraska Medical Centre, Omaha, NE, USA
Iron starvation of Chlamydia trachomatis leads to enhanced TNF-α production in epithelial cells.

B31 Syed Rizvi, Owais Hakiem, Ming Tan
University of California Irvine, Irvine, CA, USA
A correlative ChIP-seq/RNA-seq approach to create a genome-wide map of Chlamydia promoters and their temporal expression pattern.

B32 Cody Appa*, Nicole Grieshaber, Sean McCormick, Travis Chierellis, Scott Grieshaber
University of Idaho, Moscow, ID, USA
Ectopic expression of Euo represses late gene expression but not the committed step to EB formation.

B33 Andrew Cheng, Danny Wan, Arkaprabh Ghatak, Richard Ebright, Huizhou Fan
Rutgers University, Piscataway, NJ, USA
Identification and structural modeling of the chlamydial RNA polymerase omega subunit.
B34  Noah Mishkin, Sebastian Carrasco, Samantha St. Jean, Ira Sigar, Kyle Ramsey, Amber Kaminski, Rodolfo Ricart Arbona, Neil Lipman  
Midwestern University, Downers Grove, IL, USA  
Pneumonia associated with Chlamydia muridarum infection in NSG mice.

B35  Robert Davidson*, Craig Low, Ken Fields, Jörn Coers  
Duke University, Durham, North Carolina, USA.  
Investigating the role of the inclusion protein GarD across different Chlamydia species.

B36  # Huilong Hu*, Qiang Li, Jiaqi Liu, Rongze He, Yihui Wang, Cheng He  
China Agricultural University, Beijing, Beijing, China.  
Chlamydia psittaci-specific Pmp19G activates early invasion by upregulating macrophage autophagy via NOD1 and ATG16L1 pathway.

7:00  DINNER ON YOUR OWN
Thursday, March 23, 2023

7:00-8:30 BREAKFAST (Capitol Ballroom 3 & 4)

8:30-9:15 Overview on Chlamydia Genetics: Ken Fields Capitol Ballroom 1 & 2
Development and application of Chlamydia genetics: Past, Present, and Future

Gene regulation and host response
CHAIRS: Rey Carabeo; Dan Rockey

9:15 Niaz Bahar Chowdhury*, Nick Pokorzynsk, Elizabeth Rucks, Scot Ouellette, Rey Carabeo, Rajib Saha University of Nebraska-Lincoln, Lincoln, Nebraska, USA.
An integrated experimental and computational study reveals new insights on nutritional stress response and persistence mechanism of Chlamydia trachomatis.

9:30 Robert Suchland, Steven Carrell, Daniel Rockey University of Washington, Seattle, Wa, USA.
Recombination dynamics between strains of Chlamydia trachomatis occupying varying host anatomical sites.

9:45 Sarah E. Fields*, Katerina Wolf University of Kentucky College of Medicine, Lexington, KY, USA
The role of pmpI during chlamydial infection.

10:00 Addison DeBoer, Lei Lei, Chungfu Yang, Li Ma, Robert Suchland, Grant McClarty, Harlan Caldwell, Daniel Rockey Oregon State University, Corvallis, OR, USA
Targetron inactivation of Chlamydia trachomatis gseA results in a lipopolysaccharide KDO-deficient strain that is highly cytotoxic for cells.

10:15 Asha Densi**, Kevin Wang, Cuper Ramirez, Roseleen Ekka, Ming Tan, Christine Süttterlin University of California Irvine, Irvine, California, USA
The small RNA CtrR7 encodes a peptide whose overexpression inhibits C. trachomatis replication.

10:30-10:45 BREAK (Pre-Function outside the Ballroom)

Experimental models of Chlamydia infection
CHAIRS: Rebekah Lijek; Alison Quayle

10:45 Eric Dumas**, Sergio Davila, Jorn Coers, Michael Starnbach Harvard Medical School, Boston, MA, USA.
Establishment of a mouse chronic infection model.

11:00 Safia Guleed, Nina Nguyen, Ida Rosenkrands, Anja Olsen, Frank Follmann, Jes Dietrich Statens Serum Institut, Copenhagen, Copenhagen, Denmark
Post exposure vaccine induced protection by CTH522/CAF01 in a new re-infection animal model.

11:15 Experimental session: In vitro / in vivo models (tips and challenges)
Panel discussion with: Catherine O'Connell, Michael Starnbach, Joern Coers, Guangming Zhong, Alison Quayle, Cindrilla Chumduri

12:00 12:25 Lightning talks 3 (###)
CHAIR: Erika Lutter

Capitol Ballroom 1 & 2
Iris Löckener*, Christian Otten, Jula Reuter, Sebastian Krannich, Julia Dannenberg, Anna Klöckner, Melanie Brunke, Viola Middelhauve, Ulrich Kubitschek, Tanja Schneider, Beate Henrichfreise Institute for Pharmaceutical Microbiology, Bonn, NRW, Germany. (Poster C16) **β-lactam and β-lactamase inhibitor-induced persistence in Chlamydia: Cellular effects and targeted enzymes.**

Roseleen Ekka**, Kevin Wang, Christine Sütterlin, Ming Tan University of California, Irvine, California, USA (Poster C23) **Overexpression of two C. trachomatis small RNAs causes a similar defect in RB-to-EB conversion through different mechanisms.**

Lillith Bulawa, Jennifer Kintner, Morgan Callaghan, Amy Gravitte, Robert Schoborg, Michael Kruppa, Jennifer Hall Quillen College of Medicine, East Tennessee State University, Johnson City, TN, USA (Poster C22) **Diverse interactions between Chlamydia trachomatis and Candida albicans or its fungal cell products inhibit chlamydial infection.**

Delia Onorini, Cory Ann Leonard, Bernadetta Tarigan, Theresa Pesch, Barbara Prähuser, Robert V. Schoborg, Ann E. Jerse, Nicole Borel University of Zurich, Zurich, ZH, Switzerland. (Poster C2) **Neisseria gonorrhoeae co-infection during Chlamydia muridarum latency does not modulate murine vaginal bacterial shedding.**

Nick Pokorzynski, Monisha Alla, Rey Carabeo University of Nebraska Medical Center, Omaha, NE, USA (Poster C1) **Host cell amplification of nutritional stress contributes to persistence in Chlamydia trachomatis.**

Matthew Romero*, Rey Carabeo University of Nebraska Medical Center, Omaha, NE, USA (Poster C32) **TmeA-mediated signaling drives actin recruitment during later stages of Chlamydia trachomatis invasion and is necessary for efficient closure of nascent Chlamydia-containing vacuoles in a dynamin-sensitive manner.**

12:25-1:45 LUNCH (Capitol Ballroom 3 & 4) ➔ Lunch with RBs (Really Big Shots): Ken Fields, Joanne Engel

1:45 - 3:30 POSTER SESSION C Pre-Function outside the Ballroom

NOTE: Odd numbers during the first hour- Even numbers during the second hour

### Lightning talk on Thursday

C1  ### Nick Pokorzynski, Monisha Alla, Rey Carabeo University of Nebraska Medical Center, Omaha, NE, USA **Host cell amplification of nutritional stress contributes to persistence in Chlamydia trachomatis.**

C2  ### Delia Onorini, Cory Ann Leonard, Bernadetta Tarigan, Theresa Pesch, Barbara Prähuser, Robert V. Schoborg, Ann E. Jerse, Nicole Borel University of Zurich, Zurich, ZH, Switzerland. **Neisseria gonorrhoeae co-infection during Chlamydia muridarum latency does not modulate murine vaginal bacterial shedding.**

C3  Nathan Hatch*, Scot Ouellette University of Nebraska Medical Center, Omaha, Nebraska, USA **Defining the regulons of the two minor sigma factors in Chlamydia trachomatis.**

C4  Aaron Jensen*, Derek Fisher, Scot Ouellette University of Nebraska Medical Center, Omaha, Nebraska, USA. **Examining the function of the ClpC AAA+ ATPase in the biology of Chlamydia.**
C5  Liam Caven*, Amanda Brinkworth, Rey Carabeo  
University of Nebraska Medical Center, Omaha, NE, USA; Washington State University, Pullman, WA, USA  
*Chlamydia trachomatis induces the transcriptional activity of host YAP in a Hippo-independent fashion.

C6  Camille Riffaud**, Elizabeth Rucks, Scot Ouellette  
University of Nebraska Medical Center, Omaha, NE, USA  
**Tryptophan availability during persistence of Chlamydia trachomatis directly impacts expression of chlamydial cell division proteins.

C7  Vandana Singh**, Scot P. Ouellette  
University of Nebraska Medical Center, Omaha, NE, USA  
*Altering the redox status of Chlamydia trachomatis impacts its developmental cycle progression.

C8  Abigail Swoboda*, Nicholas Wood, Elizabeth Saery, Derek Fisher, Scot Ouellette  
University of Nebraska Medical Center, Omaha, NE, USA  
Characterization of the chlamydial tail-specific protease, CT441, in Chlamydia trachomatis growth and development.

C9  Christèle Aubry*, Carole Kebbi Beghdadi, Gibert Greub  
Institute of Microbiology, Lausanne University Hospital and Lausanne University, Lausanne, Vaud, Switzerland  
Comparison of different approaches to assess the number of Chlamydiales bacteria in a sample.

C10  Bryce Duncan, Kacy Yount, Catherine O'Connell  
University of North Carolina, Chapel Hill, North Carolina, USA  
Developing tools for real-time quantitation of chlamydial gene expression.

C11  Lucie Berclaz*, Da’Vonti Hardrick, Madison Dresler, Shannon Breen, Everett Webster, Alexandria Taylor, Susan Core, Amanda Collar, Kathryn Frierze, Rebecca Lijek  
Mount Holyoke College, South Hadley, MA, USA  
Chlamydia trachomatis cytotoxin CT166 and the type 3 secretion system tip protein CT584 act as virulence factors during transcervical infection in mice: evidence from virus-like particle vaccines.

C12  Leiqiong Gao, Scot Ouellette, Li Shen  
LSUHSC, New Orleans, LA, USA  
Altering gene expression: the role of DNA topoisomerases in Chlamydia trachomatis.

C13  Owais Hakiem**, Syed MA Rizvi, Cuper Ramirez, Ming Tan  
University of California, Irvine, California, USA  
Role of Euo in regulation of late genes in Chlamydia trachomatis.

C14  Patrik D’haeseeleer, Patrick W. Cervantes, Brent Segelke, Edmond Y. Lau, Luis M. de la Maza, Matthew A. Coleman  
Lawrence Livermore National Laboratory, Livermore, CA, USA  
Sequence, structure, and epitope analysis of the polymorphic membrane protein family in Chlamydia trachomatis.

C15  Francis Eko, Shakyra Richardson, Fnu Medhavi, Tayhlor Tanner, Yusuf Omosun, Joseph Igietseme  
Midwestern University, Glendale, AZ, USA; Morehouse School of Medicine, Atlanta, GA, USA  
A VCG-based vaccine protects against Chlamydia abortus-induced abortion in mice.

C16  Iris Löckener*, Christian Otten, Jula Reuter, Sebastian Krannich, Julia Dannenberg, Anna Klöckner, Melanie Brunke, Viola Middelhaue, Ulrich Kubitschek, Tanja Schneider, Beate Henrichfreise  
Institute for Pharmaceutical Microbiology, Bonn, NRW, Germany  
β-lactam and β-lactamase inhibitor-induced persistence in Chlamydia: Cellular effects and targeted enzymes.

C17  Samantha D'Spain*, Katerina Wolf, Isabelle Derré  
University of Virginia, Charlottesville, VA, USA  
Exploring IncD-mediated non-vesicular trafficking of ceramide at ER-inclusion membrane contact sites.

C18  Simone Adams*, Raghothama Chaerkady, Jonathan Seaman, Claire Dobson, Richard Hayward
Phenotypic phage display reveals novel vesicular structures within chlamydial inclusions.

Christine Linton*, Jordan Wesolowski, Fabienne Paumet
Thomas Jefferson University, Philadelphia, PA, USA
Characterizing a novel bacterial fusion protein: investigating the mechanism of IncA-mediated membrane fusion.

Fabienne Kocher*, Sebastian Wintgens, Johannes H. Hegemann
Functional Genome Research of Microorganisms, Dusseldorf, North Rhine-Westphalia, Germany
Biological and biochemical characterization of Chlamydia trachomatis Pmp proteins.

Kanupriya Gupta, William Geisler
University of Alabama at Birmingham, Birmingham, AL, USA
Identification of differentially expressed miRNAs associated with genital Chlamydia trachomatis clearance and reinfection.

Lillith Bulawa, Jennifer Kintner, Morgan Callaghan, Amy Gravitte, Robert Schoborg, Michael Krupa, Jennifer Hall
Quillen College of Medicine, East Tennessee State University, Johnson City, TN, USA
Diverse interactions between Chlamydia trachomatis and Candida albicans or its fungal cell products inhibit chlamydial infection.

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Identification of differentially expressed miRNAs associated with genital Chlamydia trachomatis clearance and reinfection.

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University of California, Irvine, California, USA
Overexpression of two C. trachomatis small RNAs causes a similar defect in RB-to-EB conversion through different mechanisms.

Samuel Omesi, Paula Bravver, Morgan Johnson, Priyanka Baghaie, Breanna Turman, Kacy Yount, Catherine O’Connell
University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, USA

Abisola Abisoye-Ogunniyan**, Isabella Carrano, Dina Weilhammer, Dominique Hall, Steven Hoang-Phou, Mariam Mohagheghi, Sean Gilmore, Byron Vannest, Nicholas Fischer, Sukumar Pal, Anatoli Slepenkin, Luis de la Maz, Justin Radoff, Melissa Caimano, Kelly Hawley, Matthew Coleman, Amy Rasley Lawrence Livermore National Laboratory, Livermore, CA, USA.
Evaluation of Chlamydia-specific T cell responses induced by vaccine formulations with MOMP variable domain loops.

Corinna Braun**, Sean Hatton, Sebastien Phan, Daniela Boassa, Christine Sütterlin, Ming Tan
Microbiology & Molecular Genetics, UC Irvine, Irvine, CA, USA.
The mystery of early events in the Chlamydia infection.

Hollis Holcomb*, Prakash Sah, Madison Tryziak, Jennifer Shaw, Erika Lutter
Oklahoma State University, Stillwater, OK, USA.
Chlamydia trachomatis and the characterization of its inclusion membrane protein CT226.

Siddharth Chittaranjan, Olusola Olagoke**, Deborah Dean
Departments of Medicine and Pediatrics, University of California San Francisco, Oakland, CA, USA.
Comparative dual RNA-sequence analysis of Chlamydia trachomatis infections in primary and immortalized endocervical cells identifies clinically relevant host-pathogen interactions.

Stephanie Lundy, Shakyra Richardson, Joseph U Igietseme, Francis O Eko, Yusuf O Omosun
Department of Microbiology, Biochemistry and Immunology. Morehouse School of Medicine, Atlanta, Georgia, USA
The role of time of infection on gene expression patterns during Chlamydia pathogenesis.

Tesfaye Belay, Ashlei Kelly, Danielle Baker, Nathasha Woart, Emily Shupe
Bluefield State University, Bluefield, WV, USA
Beta2-Adrenergic receptor deficiency in a stress mouse model leads to a reduced organ load of Chlamydia muridarum in the genital tract.
C31 Alix McCullough*, Robert Faris, Tom Moninger, Mary M. Weber
University of Iowa, Iowa City, IA, USA
The Type III secreted effector protein TmeA manipulates N-WASP to facilitate host cell invasion.

C32 Matthew Romero*, Rey Carabeo
University of Nebraska Medical Center, Omaha, NE, USA
TmeA-mediated signaling drives actin recruitment during later stages of Chlamydia trachomatis invasion and is necessary for efficient closure of nascent Chlamydia-containing vacuoles in a dynamin-sensitive manner.

3:30-3:50 BREAK (Pre-Function outside the Ballroom)

3:50 Review session: What’s new in taxonomy?
Gilbert Greub
Immunology of Chlamydia infection – part 2
CHAIRS: Thomas Rudel, Stephen Jordan

4:15 Yongxia Guo**, Thomas Rudel Tommaso Torcellan, Sigrun Stulz, Georg Gasteiger
Chair of Microbiology, University Wuerzburg, Wuerzburg, Bavaria, Germany
Secreted ISG15 induced by C. trachomatis infection exerts immunomodulatory effects on IFN-γ defense and inflammation.

4:30 Miguel Mercado*, Charles Quick, Qiang Li, Rachel Palmer, Lu Huang, Lin-Xi Li
University of Arkansas for Medical Sciences, Little Rock, Arkansas, USA
Transcription factor Bhlhe40 plays a protective role during intravaginal Chlamydia muridarum infection in mice.

4:45 Kevin Fong, Jordan Rixon, Jasmine Labuda, Taylor Poston, Toni Darville, Stephen McSorley
University of California, Davis, Davis, CA, USA.
Identifying the mechanism of Chlamydia muridarum clearance by circulating CD4 T cell memory.

5:00 Closing remarks and survey (Joanne Engel, Raphael Valdivia)

5:45-7:00 FREE TIME

7:00-9:30 CBRS BANQUET AND AWARDS (Poster / talks prize)

https://o-pa.org/our-venues/holland
Omaha restaurants and nightlife by neighborhood

Capitol District (0.1 miles) – Newer area next to hotel, stadium, music venue, and independent theater

Restaurant favorites: Texas de Brazil, Hook, and Lime, Lighthouse Pizza

Bar favorites: Blatt Beer and Table

Old Market/Downtown (0.4 miles) - Historic district with numerous mid-range and upscale restaurants, galleries, and boutiques

Restaurant favorites: La Buvette, Block 16, Wilson & Washburn, Boiler Room ($$$), M’s

Bar favorites: Wicked Rabbit speakeasy, Mercury Bar, Laka Lono Tiki bar, Berry & Rye ($$$)

13th Street corridor (1.7 miles) – Up and coming hipsterish neighborhood with unique shops and bars

Restaurant favorites: Via Farina (10th street), Fizzywig’s diner

Bar favorites: Beercade 2, Tiny House bar

Midtown/Blackstone District (2.9 miles) - Popular bars and breweries, late night restaurants and lounges, Reno’s karaoke

Restaurant favorites: Mula, Noli’s pizza, Modern Love (vegan), Coneflower ice cream

Bar favorites: Corkscrew, Nite Owl, Crescent Moon, Red Lion

Benson/Maple Street (6 miles) – Excellent food, relaxed bars, cute cafes, and music venues

Restaurant favorites: Yoshitomo sushi*, Ika ramen, Au Courant ($$$), Star Deli ($) (Seafood is flown in fresh daily to Omaha since it is a major UPS hub for the Midwest.)

Bar favorites: Krug Place, Beercade, 1912, Bärchen, Kaitei speakeasy

*Seafood is flown in fresh daily to Omaha since it is a major UPS hub for the Midwest.
## PARTICIPANTS

<table>
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