AUGUST 27 - 29, 2025

24TH COLORADO IMMUNOLOGY & MICROBIOLOGY CONFERENCE

The Steamboat Grand

STEAMBOAT SPRINGS, COLORADO

WELCOME

The Department of Immunology and Microbiology at the University of Colorado School of Medicine welcomes you to the **24th Annual Colorado Immunology and Microbiology Conferenc**e (CIMC)!

This conference is held at one of several locations in the Rocky Mountains and brings together more than 250 scientists from multiple regional institutions for the purpose of education and exchange of ideas in the fields of immunology, microbiology, and cancer research.

The immunology and microbiology community in Colorado and the greater Rocky Mountain region enjoys a very rich tradition of scientific discovery dating from more than half a century ago. However, Immunologists and Microbiologists in Colorado are distributed amongst several affiliated institutions along the front-range of the Rockies, and other institutions are even further afield. The lack of proximity presents an obstacle to achieving optimal collaborative research productivity and effective teaching amongst immunologists in the region.

We instituted the annual Colorado Immunology and Microbiology Conference in 2000 with the goal of overcoming this obstacle and improving teaching and research interactions amongst regional immunologists and microbiologists. This meeting provides networking opportunities for trainees to interact with senior faculty and scientists.

The CIMC has fostered the development of thriving inter-institutional programs in cancer immunology, diabetes, autoimmunity, respiratory immunology, microbiology, and inflammation for 24 years.



SCHOOL OF MEDICINE

UNIVERSITY OF COLORADO ANSCHUTZ MEDICAL CAMPUS

SCHEDULE AT A GLANCE

WEDNESDAY, AUGUST 27, 2025

3:00 PM - 4:00 PM

THE PIXIE CAMPBELL KEYNOTE PRESENTATION

Dr. Jessica Hamerman

5:00 - 6:30 PM

Poster and Vendor Session - Part 1

THURSDAY, AUGUST 28, 2025

8:30 AM - 10:30 AM

Session 1 | Bugs on the Menu: Feeding Pathogens, Fueling Immunity, and Fending Off Phages

11:00 AM - 12:00 PM

Session 2 | Cancer: From Symbiotic to Synthetic Biology

12:00 PM - 1:00 PM

THE SCHAACK AND STONEHOUSE KEYNOTE PRESENTATION
Dr. Jennifer Bomberger

5:00 - 7:00 PM

Poster and Vendor Session - Part 2

FRIDAY, AUGUST 29, 2025

8:30 AM - 10:30 AM

Session 3 | To Inflammasomes two through Inflammations and Beyond: Molecular, Cellular, and Inter-Cellular Mechanisms of Inflammation

11:00 AM - 12:00 PM

Session 4 | I&M Trainee Showcase Session

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Funding for this conference was made possible [in part] by 1R13Al179153-03 from the National Institute of Allergy and Infectious Diseases. The views expressed in written conference materials or publications and by speakers and moderators do not necessarily reflect the official policies of the Department of Health and Human Services; nor does mention of trade names, commercial practices, or organizations imply endorsement by the U.S. Government.

THE PIXIE CAMPBELL KEYNOTE PRESENTATION

Each year, the CIMC strives to honor Dr. Priscilla "Pixie" Campbell by inviting a leading female immunologist to speak. Dr. Campbell was an immunologist who served on the faculty and as Immunology Program Director at National Jewish Health. Before her passing in 1998, she made many contributions to research in cellular immunology. You can read more about her life here. tinyurl.com/PixieCampbell



PRISCILLA "PIXIE" CAMPBELL PHOTOGRAPH BY BARRY SILVERSTEIN From Journal of Leukocyte Biology

Volume 64, July 1998

THE 24TH COLORADO IMMUNOLOGY AND MICROBIOLOGY CONFERENCE PIXIE CAMPBELL KEYNOTE SPEAKER



DR. JESSICA HAMERMAN

Director of Academic Affairs/Member Center for Fundamental Immunology Benaroya Research Institute/Affiliate Professor Department of Immunology University of Washington

SESSION 1 SPEAKERS



Siddharth Krishnamurthy, PhD

Assistant Professor

Department of Immunology and Microbiology
School of Medicine | University of Colorado



Breck Duerkop, PhD

Associate Professor

Department of Immunology and Microbiology
School of Medicine | University of Colorado



Kelly Doran, PhD
Professor
Department of Immunology and Microbiology
School of Medicine | University of Colorado



Alexandra McCubbrey, PhD

Assistant Professor

Division of Pulmonary, Critical Care & Sleep Medicine
Department of Medicine | National Jewish Health

SESSION 2 SPEAKERS



Carissa Thomas, MD, PhD, FACS
Associate Professor
Otolaryngology - Head and Neck Surgery
School of Medicine | University of Colorado



Terry Fry, MD

Professor

Pediatrics-Heme/Onc and Bone Marrow
Transplantation
School of Medicine | University of Colorado

THE SCHAACK AND STONEHOUSE KEYNOTE PRESENTATION

The microbiologist keynote speaker presents the Schaack & Stonehouse presentation, named for Dr. Jerry Schaack, a microbiologist who served on the faculty and as the Microbiology Program Director, and Dr. Martin Stonehouse a Microbiology graduate student and Postdoc, both at the University of Colorado Anschutz Medical Campus. Martin loved the Colorado outdoors and was often



Dr. Jerry Schaack

found atop one of the states 14ers or snowboarding down the glaciers. Dr. Schaak's career ended with the diagnosis of early onset Alzheimer's disease and Dr. Stonehouse worked as the Campus Assistant Biosafety Officer until he passed from a fatal brain tumor.

We strive to honor their memory and contributions to our science community at each conference with this keynote presentation.



Dr. Martin Stonehouse

THE 24TH COLORADO IMMUNOLOGY AND MICROBIOLOGY CONFERENCE

THE SCHAACK AND STONEHOUSE KEYNOTE SPEAKER



DR. JENNIFER BOMBERGER

Phillip J. Hanlon 2nd Century Professor in
Personalized Treatments of Cystic Fibrosis
Professor of Microbiology and Immunology
Director of the Dartmouth Research Development
Program in Cystic Fibrosis
Co-director of the Dartmouth Cystic Fibrosis Center
Geisel School of Medicine at Dartmouth

SESSION 3 SPEAKERS



Derek Abbott, MD, PhD

Cecil and Ida Green Chair

Department of Immunology and Genomic

Medicine | National Jewish Health



Arianne Theiss, PhD, AGAF
Associate Professor
Gl and Liver Innate Immune Program
Division of Gastroenterology & Hepatology
School of Medicine | University of Colorado



(Anna) Helena Jonsson, MD, PhD
Assistant Professor
Rheumatology | University of Colorado



Ruth J. Napier, PhD

Associate Professor

Rheumatology | University of Colorado

Rocky Mountain Regional VA Medical Center

SESSION 4 SPEAKERS



JAMES DILISIO
IMMUNOLOGY STUDENT TRAINEE
(HASKINS LAB)



AMBER NGUYEN
MICROBIOLOGY STUDENT TRAINEE
(HORSWILL LAB)



DR. FELIPE VALENCA-PEREIRA IMMUNOLOGY POSTDOC TRAINEE (RINCON LAB)

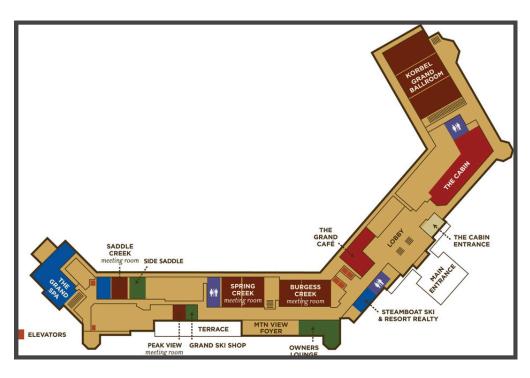


DR. SIVA UPPALAPATI MICROBIOLOGY POSTDOC TRAINEE (VAZQUES-TORRES LAB)

THE STEAMBOAT GRAND

2300 MT WERNER CIR STEAMBOAT SPRINGS, CO 80487





THANK YOU

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AGENDA

DAY 1.....WEDNESDAY, AUGUST 27, 2025

Time/Location	ITEM
12:00 PM Korbel III	Poster and vendor session setup* *posters must be set up by 4:45 p.m. on Wednesday, August 27, 2025
12:00 – 2:45 PM	Arrive and Register
3:00 – 4:00 PM Korbell I/II	THE PIXIE CAMPBELL KEYNOTE PRESENTATION (Introduced by Curtis Henry)
	"Understanding Monocyte Differentiation During Health and Inflammatory Disease"
	Dr. Jessica Hamerman Director of Academic Affairs/Member, Center for Fundamental Immunology, Benaroya Research Institute/Affiliate Professor, Department of Immunology, University of Washington
5:00 - 6:30 PM Korbel III	Poster and Vendor Session - Part 1
7:00 - 11:00 PM Tent	Dinner and Themed Reception 24th Annual CIMC Theme: Movie Night



AGENDA

DAY 2.....THURSDAY, AUGUST 28, 2025

Time/Location	ITEM
7:30 – 8:30 AM Tent	Breakfast
8:30 – 10:30 AM Korbel I/II	Session One: Bugs on the Menu: Feeding Pathogens, Fueling Immunity, and Fending Off Phages Chair: Kyla Ost, Ph.D.
	Siddharth Krishnamurthy, Ph.D. Nutritional and Genetic Synergy Determine Enteric Viral Tropism
	Kelly Doran, Ph.D. Group B Streptococcus Gone Wild: Metabolic Misadventures during Diabetes
	Breck Duerkop, Ph.D. A Plasmid Encoded Antiphage Defense System Paves the Way to the Discovery of Novel Phage-Host Interactions
	Alexandra McCubbrey, Ph.D. Understanding the Fed State Following Macrophage Efferocytosis
10:30 – 11:00 AM	BREAK
11:00 – 12:00 AM Korbel I/II	Session Two: Cancer: from symbiotic to synthetic biology Chair: M. Eric Kohler, MD, PhD
	Carissa Thomas, M.D., Ph.D., F.A.C.S. What can the Microbiome Tell Us About Head and Neck Cancer?
	Terry Fry, M.D. Lessons Learned From Synthetic Immunology

AGENDA

DAY 2.....THURSDAY, AUGUST 28, 2025

Time/Location	ITEM
12:00 – 1:00 PM Korbel I/II	THE SCHAACK AND STONEHOUSE KEYNOTE PRESENTATION (Introduced by Sarah E. Clark, Ph.D.)
	"Complex Communities: Decoding Microbial Interactions in the Respiratory Tract"
	Dr. Jennifer Bomberger Philip J. Hanlon Second Century Professor in Personalized Treatments for Cystic Fibrosis, Professor of Microbiology and Immunology, Director of the Dartmouth CF Research Development Program in CF at Dartmouth Geisel School of Medicine
5:00 – 7:00 PM Korbel III	Poster and Vendor Session - Part 2
7:00 PM Tent	Dinner
7:30 PM	Poster Session Winners Announced
	NEW Professional Development Session - Table Discussions
After Dinner Tent	Table discussions topics will include: Dr. Beth Tamburini: Maximizing time both Inside and Outside of the Lab Dr. Aimee Pugh Bernard: Best Practices with Scientific Communication and Branding Dr. Mercedes Rincon: Preparation for a Professional Life After Training Dr. Andrew Getahun: Navigating Being an International Student in Science Dr. Michael Schurr: Tips for Navigating Friction in the Workplace Dr. Kelly Doran: Maintaining Mental Health Hygiene as a Trainee

AGENDA

DAY 3.....FRIDAY, AUGUST 29, 2025

Time/Location	ITEM
7:30 – 8:30 AM Tent	Breakfast
8:30 - 10:30 AM Korbel I/II	Session Three: To Inflammasomes and Beyond: Molecular, Cellular, and Inter-Cellular Mechanisms of Inflammation Chair: Julia Dunn, Ph.D.
	Derek Abbott, M.D., Ph.D. Inflammasome Agonists - Beyond Pyroptosis
	Anna Helena Jonsson, M.D., Ph.D. Determining the Pathogenic Effector Functions of Granzyme K+ CD8 T Cells Enriched in Autoimmune Diseases
	Arianne Theiss Ph.D., A.G.A.F. Mitochondria as Influencers of Intestinal Epithelial Innate Immunity
	Ruth Napier, Ph.D. CARD9 at the Crossroads: Fungal Defense, Autoimmune Risk, and Clinical Translation
10:30 – 11:00 AM	BREAK I
11:00 - 12:00 PM Korbel I/II	Session Four: I&M Trainee Showcase Session Chair: Curtis Henry, Ph.D.
	James DiLisio - Immunology Student Trainee (Haskins Lab) Antigen-specific immunotherapy with a CD4 neoepitope restrains CD8 T cell differentiation in islet grafts
	Amber Nguyen - Microbiology Student Trainee (Horswill Lab) Characterization of Antimicrobial Daptides from Staphylococcus hominis and Resistance
	Dr. Felipe Valenca-Pereira - Immunology Postdoc Trainee (Rincon Lab) The Impact of GSK3β Inactivation on Thymocyte
	Dr. Siva Uppalapati - Microbiology Postdoc Trainee (Vazques-Torres Lab) Redox-sensing prophage terminase orchestrates Salmonella persistence by preserving genome integrity