

**5th Annual UC Davis Research Retreat on Host Microbe
Interaction (HMI)
Granlibakken, October 14th-15th, 2010**

ORGANIZING COMMITTEE

Co-Chairs:

Andreas Bäumler, Ph.D., Vice Chair of Research, Medical Microbiology and Immunology

Satya Dandekar, Ph.D., Chair, Medical Microbiology and Immunology

Members:

Stephen Barthold D.V.M, Ph.D., Director, Center for Comparative Medicine

Nicole Baumgarth, D.V.M, Ph.D., Chair, Graduate Group Immunology

Charles Bevins, M.D., Ph.D., Medical Microbiology and Immunology

Gitta Coaker, Ph.D., Plant Pathology

Scott Dawson, Ph.D., Microbiology

Johan Leveau, Ph.D., Plant Pathology

Shirley Luckhart, Ph.D. Medical Microbiology and Immunology

Richard Michelmore, Ph.D., Director, Genome Center

Richard Pollard, M.D., Chief, Infectious Diseases

Jay Solnick, M.D., Ph.D., Medicine, Center for Comparative Medicine

Tilahun Yilma, D.V.M., Ph.D., Distinguished Professor, Pathology, Microbiology and Immunology

Glenn Young, Ph.D., Chair, Microbiology Graduate Group

PROGRAM 2009 UC DAVIS HMI RETREAT

October 14

12:00pm ***Opening Reception and light Lunch (Granhall)*** *

1:00-3:00 ***Scientific Session 1 (Mt. Lake Conference Room)*** *

Moderator: Gitta Coaker, Department of Plant Pathology, College of Agricultural and Environmental Sciences

1:00 **Opening Address**

1:15-1:30 ***Bryce Falk***

Department of Plant Pathology

College of Agricultural and Environmental Sciences

“Functional analysis of two unique genes of Lettuce infectious yellows virus”

1:35-1:50 ***Carlito Lebrilla***

Department of Chemistry

College of Letters and Science

“The role of glycosylation in the mediation of host-microbe interactions”

1:55-2:10 ***Angie Gelli***

Department of Pharmacology

School of Medicine

“The extracellular proteome of *Cryptococcus neoformans* and its role in CNS invasion”

2:15-2:25 ***Doug Huseby*** (Roth lab)

Department of Microbiology

College of Biological Sciences

2:30-2:40 ***Parameth Thiennimitr*** (Bäumler lab)

Department of Medical Microbiology and Immunology

School of Medicine

“Tetrathionate respiration of ethanolamine: One of the survival strategies for *Salmonella enterica* serotype Typhimuirum in inflamed gut”

2:45-2:55

Rebecca Elsner (Baumgarth lab)

Department of Pathology, Microbiology and Immunology, CCM

School of Veterinary Medicine

“Lost or confused - CD4 T cell response to *Borrelia burgdorferi* infection”

3:00-3:30

Break

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3:30-5:45

Scientific Session 2 (Mt. Lake Conference Room)

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Moderator: **Nicole Baumgarth**, CCM, Department of Pathology, Microbiology and Immunology, School of Veterinary Medicine

3:30-3:45

Maria Marco

Department of Food Science & Technology

College of Agricultural and Environmental Sciences

“Influence of the phyllosphere microbiota on the microbial safety of lettuce”

3:50-4:05

George Thompson

Department of Medical Microbiology and Immunology

School of Medicine

4:10-4:25

Lorena Navarro

Department of Microbiology

College of Biological Sciences

“The *Yersinia* type III effector YpkA targets host cellular signaling”

4:30-4:40

Vidya Atluri (Tsolis lab)

Department of Medical Microbiology and Immunology

School of Medicine

“BopA is required for persistence of *Brucella*”

4:45-4:55

Jun Liu (Coaker lab)

Department of Plant Pathology

College of Agricultural and Environmental Sciences

- 5:00-5:10 **Mike Hornsby** (Solnick Lab)
Department of Medicine, Division of Infectious Diseases, CCM
School of Medicine
“Induction of beta defensin 2 by *Helicobacter pylori*: Good for the pathogen or good for the host?”
- 5:15-5:25 **Ashley Horton** (Luckhart lab)
Department of Medical Microbiology and Immunology
School of Medicine
“Disease association mapping in *Anopheles gambiae*: what is the effect of single nucleotide polymorphisms on malaria infection?”
- 5:30-6:15pm Break and Poster setup (Bay Room) ***
- 6:15-7:15pm Keynote Address (Mt. Lake Conference Room) ***
Moderator: Charles Bevins, Department of Medical Microbiology and Immunology, School of Medicine
- 6:15-7:05 **Robert I. Lehrer, MD**
Professor, Medicine, Infectious Diseases
University of California at Los Angeles
- 7:15-8:30pm Dinner (Granhall) ***
- 8:30-10:30pm Poster Session (Bay Room) ***

October 15

7:30-8:30am **Breakfast (Granhall)** *

9:00-10:15am **Scientific Session 3 (Mt. Lake Conference Room)** *

Moderator: **Jay Solnick**, CCM, Division of Infectious Diseases, Department of Medicine, School of Medicine

9:00-9:15

Peter Barry

Department of Pathology and Laboratory Medicine

School of Medicine

"How Persistent Pathogens May Shape an Aging Immune System - New Opportunities for Collaborative Projects"

9:20-9:35

Alex Revzin

Department of Biomedical Engineering

College of Engineering

"Novel strategies for detecting immune cell-secreted inflammatory markers"

9:40-9:55

Bart Weimer

Department of Population Health and Reproduction

School of Veterinary Medicine

10:00-10:10

Lauren Nagy (Dandekar lab)

Department of Medical Microbiology and Immunology

School of Medicine

10:15-10:45am **Coffee Break** *

10:45-12:00pm **Scientific Session 4 (Mt. Lake Conference Room)** *

Moderator: **Shirley Luckhart**, Department of Medical Microbiology and Immunology, School of Medicine

10:45-11:00

Savithamma Dinesh-Kumar

Department of Plant Pathology and the Genome Center

College of Biological Sciences

"Driving Plant Innate Immunity: Emerging perspectives on the role of nucleus and chloroplasts"

11:05-11:20

Chris Polage

Department of Pathology and Laboratory Medicine

School of Medicine

"Is *Clostridium difficile* associated diarrhea always *C. difficile* infection?"

11:25-11:35

Joe Russell (Bevins lab)

Department of Medical Microbiology and Immunology

School of Medicine

"Induced beta-defensin accumulates in mucus layer during *Salmonella* infection"

11:40-11:50

Michael George

Department of Medical Microbiology and Immunology

School of Medicine

"Increased presence of *Campylobacter* in the oral microbiome of HIV infected patients"

12:00-1:00pm

Lunch (Granhall)

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POSTER SESSION (Bay Room, 8:00-10:30pm)

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SIZE OF POSTER BOARDS: 4'x8'; POSTER SIZE: 4'x4'