3rd Annual UC Davis Research Retreat on Host Microbe Interaction (HMI) Granlibakken, October 9th-10th, 2008

ORGANIZING COMMITTEE

Chairs:

Satya Dandekar, Ph.D.

Andreas Bäumler, Ph.D.

Members:

Stephen Barthold D.V.M, Ph.D.

Nicole Baumgarth, D.V.M, Ph.D.

Charles Bevins, M.D., Ph.D.

Kathy DeRiemer, Ph.D.

Bryce Falk, Ph.D.

Richard Michelmore, Ph.D.

Richard Pollard, M.D.

John Roth, Ph.D.

Barbara Shacklett, Ph.D.

Jay Solnick, M.D., Ph.D.

Tilahun Yilma, D.V.M., Ph.D.

PROGRAM UC DAVIS HMI TAHOE RETREAT

October 9

12:00pm	Opening Reception (Cedar House) and light Lunch (Granhall)
1:00-3:00	Scientific Session 1 (Mt. Lake Conference Room)
	Moderator: Nicole Baumgarth (CCM, PATHOLOGY, MICROBIOLOGY AND IMMUNOLOGY)
1:00-1:20	David Mills (VITICULTURE AND ENOLOGY) "Microbial consumption of human milk oligosaccharides: Yet another reason to thank your mother"
1:25-1:40	Mark Underwood (NEONATOLOGY) "Necrotizing enterocolitis: Prevention and Prediction"
1:45-2:00	Angie Gelli (PHARMACOLOGY) "The extracellular proteome of Cryptococcus neoformans and its role in the invasion of the central nervous system"
2:05-2:15	Amber Hartman (GC, EVOLUTION AND ECOLOGY) "Waters: An Automated Workflow to analyze 16S rRNA data"
2:20-2:30	Jeewan Jyot (PLANT PATHOLOGY) "Fig mosaic associated virus: A new type of negative strand RNA virus?"
2:35-2:45	Sumathi Sankaran (MEDICAL MICROBIOLOGY AND IMMUNOLOGY) "Inflammation driven gut mucosal damage contributes to HIV persistence and disease progression"
3:00-3:30	Break
3:30-5:30	Scientific Session 2 (Mt. Lake Conference Room)
	Moderator: Bryce Falk (PLANT PATHOLOGY)
3:30-3:50	Helen Raybould (ANATOMY/PHYSIOLOGY AND CELL BIOLOGY) "Chemosensing in the intestinal lumen: the bug-brain connection"

3:55-4:10	Maria Marco (FOOD SCIENCE & TECHNOLOGY) "Host-microbe interactions of Lactobacillus plantarum with humans, mice, and plants "
4:15-4:25	Michael Hornsby (CCM, MMI, INFECTIOUS DISEASES) "Interaction between H. pylori, host antimicrobial peptides, and the rhesus gastric microbiota"
4:30-4:40	Ulrich Schaff (BIOMEDICAL ENGINEERING) "Anaplasma phagocytophilum mimicry in binding E-selectin ligands on neutrophils reduces activation necessary for migration across inflamed endothelium"
4:45-4:55	Kristie Oxford (CCM, PATHOLOGY). "The Contribution of Persistent Infections Toward Chronic Health Conditions: Old Monkey Tales"
5:00-5:10	John A Lindbo (PLANT PATHOLOGY) "Using plant viral vectors to fight animal virus infections: Producing diagnostic reagents and vaccine candidates from a new tobacco mosaic virus expression vector"
5:15-5:25	Çagla Tükel (MEDICAL MICROBIOLOGY AND IMMUNOLOGY) "Responses to amyloids of microbial and host origin are mediated through Toll-like receptor 2"
5:30-6:30pm	Check in (Lobby) and Poster Setup (Mountain Ballroom)
6:30-7:30pm	Dinner (Granhall)
7:45-10:00pm	Poster Session (Mountain Ballroom)
October 10	
7:30-8:30am	Breakfast (Granhall)
8:45-10:00am	Scientific Session 3 (Mt. Lake Conference Room)
	Moderator: Richard Michelmore (GENOME CENTER)
8:45-9:05	Pamela Ronald (PLANT PATHOLOGY) "The bacterial molecule AvrXa21 triggers

rice innate immunity"

9:10-9:25	Lorena Navarro (MICROBIOLOGY) "Identification of a Molecular Target for the Yersinia Protein Kinase A (Insights into the Molecular Mechanism of Yersinia Pathogenesis)"
9:30-9:45	Kristina Abel (INTERNAL MEDICINE) "The need "4" help in infant S/HIV infection"
9:50-10:05	Thomas Huser (CENTER FOR BIOPHOTONICS SCIENCE & TECHNOLOGY) "Advanced live cell microscopy of viral spread"
10:10-10:30am	Coffee Break
10:30-12:00pm	Scientific Session 4 (Mt. Lake Conference Room)
	Moderator: Charles Bevins (MEDICAL MICROBIOLOGY AND IMMUNOLOGY)
10:30-10:50	Nicholas Kenyon (PULMONARY & CRITICAL CARE MEDICINE) "The role of
	nitric oxide in airway inflammation: Biomarker or therapeutic target?"
10:55-11:10	Artyom Kopp (EVOLUTION AND ECOLOGY) "A Drosophila model for
	understanding the molecular mechanisms of host-symbiont interactions"
11:15-11:30	Johan Leveau (PLANT PATHOLOGY) " Microbial ecology of plant diseases: from triangle to network "
11:35-11:45	Maarten de Jong (MEDICAL MICROBIOLOGY AND IMMUNOLOGY) "Uncovering
	the vices of the pathogenic bacterium Brucella abortus"
11:50-12:00	Kristina Rothaeusler (CCM, PATHOLOGY, MICROBIOLOGY AND
	IMMUNOLOGY) "Maintenance of long-lived anti-viral antibodies in the absence of
	B cell memory following influenza virus infection"
12:00-1:00pm	Lunch (Granhall)

POSTER SESSION (Mountain Ballroom, 7:45-10:00pm)

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

Name	Department	Poster Title
Barboza, Mariana	Chemistry	Analysis of glycoprotein-bacterial interactions by scanning optical microscope based oblique-incidence optical reflectivity difference
Bruno, Laura	MMI	Transcriptional response of bovine mucosa to infection with Salmonella enterica serovar Typhimurium
Butler, Brian	MMI	Pediatric malaria and Invasive bacterial co-infections
Castillo, Patricia	MMI	NO TITLE AVAILABLE
Chau, Jennifer Chessa, Daniela	MMI MMI Path/Lab	Malaria co-infection animal models Salmonella enterica serotype Typhimurium Std fimbriae bind the H-Type 2 histo-blood group oligosaccharide A novel mechanism for modulation of PAK/SNTK activation
Chin, Franklin	Medicine Lawrence	via acidic and core domains of HIV-1 and DIV-Nef
Chromy, Brett	Livermore	Proteomic characterization of host-pathogen interactions
Chu, Hiu-Tung den Hartigh,	MMI	Antimicrobial properties of human defensin 6 Characterization of the <i>Brucella abortus</i> Type IV secretion
Andreas	MMI	system Insulin signaling and oxidative stress responses to hIGF-1
Drexler, Anna	MMI	in <i>Anopheles stefani</i>
Fairclough, Stephen Garcia-Rolan,	Molecular & Cell Biology	Choanoflagellate colony formation
Tena George,	MMI	NO TITLE AVAILABLE
Michael	MMI	NO TITLE AVAILABLE Divergent T cell response in mucosa during pathogenic &
Glavan, Tiffany	MMI	non-pathogenic SIV infection IL-23 orchestrates mucosal responses to Salmonellla
Godinez, Ivan	MMI GC/Ecology	enterica serotype Typhimurium in the intestinal mucosa
Hartman,	and	
Amber	Evolution/MMI	Waters: an automated workflow to analyze 16S rRNA data
Hastey, Christine	CCM	Subversion of humoral immunity following <i>Borrelia</i> burgdorferi Infection
Holsclaw,	00111	PopA3 is an acyltransferase essential for the biosynthesis
Cynthia	MCB	of polyacyltrehalose from Mycobacterium tuberculosis.
Hornsby, Michael	CCM, MMI, ID	Interaction between <i>H. pylori</i> , host antimicrobial peptides, and the rhesus gastric microbiota ²
Horton, Ashley	MMI	Single nucleotide polymorphisms in Anopheles gambiae

immune signaling genes

Leonard, Brian	MMI	The role of defensins in canine innate immunity
	Plant	
Leveau, Johan	Pathology Plant	Exhibition of the mycomuncher DNA puzzle
Ronald, Pam	Pathology	The rice/Xanthomonas interaction
		Bovine-host response to Salmonella enterica serovar
RussellJoseph	MMI	Typhimurium infection
Smithers,		The African malaria mosquito PKC gene family: orthologs
Hannah	MMI	of critical mammalian immune cell signaling genes
Stopka,		Sterile syringe access and HIV/AIDS risk behaviors among
Thomas	MMI	injection drug users: Yolo county, 2004-2006
		Beta-lactamase reporter, a novel system to study bacterial
Sun, Yao Hui	MMI	T4SS
Surachetpong,		MAPK signaling pathways regulate the mosquito response
Win	MMI	to malaria parasite infection
Thiennimitr,		Contribution of flagellin to intestinal inflammation during
Parameth	MMI	Salmonella enterica serotype Typhimurium infection
	Medical	The extracellular proteome of Cryptococcus neoformans
Vu, Kiem	Pharmacology	and its role in CNS invasion
Wilson, Paul	MMI	NO TITLE AVAILABLE
Winter,		TviA, in conjunction with RcsB, coordinates expression of
Sebastian	MMI	the invasion associated Type 3 Secretion System
		Risk factor analysis of drug resistant tuberculosis in Hunan,
Xu, Jiying	PHS	China
		Adaptive and innate responses in smoke exposed and
Zhao, Xlaoyan	Pediatrics	Chlamydia pneumoniae infected ApoE⁻⁻ mice