
Microbial Toxins & Pathogenicity

Gordon Research Seminar

Frontiers of Microbial Pathogenesis

July 7-8, 2012
Waterville Valley Resort
Waterville Valley, NH

Chair: Zachary D. Dalebroux
Associate Chair: Aimee L. Richard

Contributors



SATURDAY

- 1:00 pm - 5:00 pm Arrival and Check-in
- 3:30 pm - 3:45 pm Introductory Comments by GRC Site Staff / Welcome by the GRS Conference
Chair: **Zachary Dalebroux** (University of Washington)
- 3:45 pm - 4:30 pm **Host-Pathogen Interactions**
Discussion Leader: **Aimee Richard** (University of Pennsylvania)
- 3:45 pm - 4:15 pm **Andrew Olive** (Harvard Medical School)
"*Chlamydia trachomatis*-mediated alterations in host protein stability are required for bacterial growth"
- 4:15 pm - 4:30 pm Discussion
- 4:30 pm - 6:00 pm Poster Session I: Toxin Action and the Host Response to Infection
- 6:00 pm Dinner
- 7:30 pm - 9:30 pm **Mechanisms of Toxin Action**
Discussion Leader: **Francis Alonzo** (NYU School of Medicine)
- 7:30 pm - 7:50 pm **David Anderson** (Medical College of Wisconsin)
"ExoU and Ubiquitin: A Model System for Bacterial-Host Protein Interaction and Effector Folding"
- 7:50 pm - 8:00 pm Discussion

- 8:00 pm - 8:20 pm **Ladislav Bumba** (Institute of Microbiology - Czech Republic)
"Structural basis for RTX protein folding upon secretion through the Type I secretion system"
- 8:20 pm - 8:30 pm Discussion
- 8:30 pm - 8:50 pm **Andrew McCluskey** (Harvard Medical School)
"Changing the receptor specificity of anthrax toxin"
- 8:50 pm - 9:00 pm Discussion
- 9:00 pm - 9:20 pm **Doris LaRock** (University of Washington)
"A *Salmonella Typhimurium* translocated glycerophospholipid: cholesterol acyltransferase promotes virulence by binding to the RhoA switch regions"
- 9:20 pm - 9:30 pm Discussion

SUNDAY

- 7:30 am - 8:30 am Breakfast
- 9:00 am - 11:00 am **Immunity and the Host Response to Infection**
Discussion Leader: **Chris LaRock** (University of Washington)
- 9:00 am - 9:20 am **Dara Burdette** (University of California-Berkeley)
"A Mechanism for the Innate Immune Sensing of Cyclic Dinucleotides"
- 9:20 am - 9:30 am Discussion
- 9:30 am - 9:50 am **Lisa Maudsdotter** (Stockholm University-Sweden)
"Lactobacilli inhibit adherence of pathogenic bacteria to host cells by interfering with host cell calcium signaling"
- 9:50 am - 10:00 am Discussion
- 10:00 am - 10:20 am **Kerri-Lynn Sheahan** (Tufts University)
"Host Cell Contribution to Type III Secretion in *Yersinia pseudotuberculosis*"
- 10:20 am - 10:30 am Discussion
- 10:30 am - 10:50 am **Sarah Clark** (University of Pennsylvania)
"Phosphorylcholine allows for evasion of bactericidal antibody by *Haemophilus influenzae*"
- 10:50 am - 11:00 am Discussion
- 11:00 am - 12:30 pm Poster Session II: Virulence Mechanisms of Bacterial Pathogens
Coffee will be served in the poster area from 11:00 am - 11:30 am
- 12:30 pm Lunch
- 1:30 pm - 2:40 pm **Regulatory Mechanisms of Bacterial Pathogens**
Discussion Leader: **Edward Geisinger** (Tufts University)
- 1:30 pm - 1:50 pm **Jeffrey Mellin** (CIRAD - France)
"A Cobalamin riboswitch regulates a long antisense RNA in *Listeria monocytogenes*"
- 1:50 pm - 2:00 pm Discussion
- 2:00 pm - 2:20 pm **Joseph Boll** (University of Texas Southwestern)
"Involvement of the Flagellar MS- and C-Rings in the Regulatory Cascade that Influences Flagellar Gene Expression in *Campylobacter jejuni*"
- 2:20 pm - 2:30 pm Discussion

- 2:30 pm - 2:40 pm Concluding Remarks: **Zachary Dalebroux** (University of Washington) and **Aimee Richard** (University of Pennsylvania)
- 2:40 pm - 3:00 pm Evaluation Period
Fill out GRS Evaluation Forms
- 3:00 pm Gordon Research Seminar ends. For those attending the associated Gordon Research Conference, please check in at the GRC Office beginning at 4:00 pm.
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POSTER LIST

Poster Session 1

Name	Organization	Poster Title
ALONZO, FRANCIS	NEW YORK UNIVERSITY SCHOOL OF MEDICINE	Mechanistic Studies of How The Staphylococcus aureus Leukocidin ED Selectively Targets and Kills Immune Cells
ANDERSON, DAVID M	MEDICAL COLLEGE OF WISCONSIN	ExoU and Ubiquitin: A Model System for Bacterial-Host Protein Interaction and Effector Folding
ANTIC, IRENA	NORTHWESTERN UNIVERSITY	Characterizing the PMT-like Effector Domain from Vibrio vulnificus MARTX toxin
BARKER, JEFFREY R	DUKE UNIVERSITY MEDICAL CENTER	The role of c-di-AMP in the Type I IFN response to Chlamydia trachomatis infection
BEHNSEN, JUDITH	UNIVERSITY OF CALIFORNIA, IRVINE	Cytokine IL-22 Promotes Growth of Salmonella Typhimurium in the Inflamed Gut
BROWN, ANGELA C	UNIVERSITY OF PENNSYLVANIA	Aggregatibacter actinomycetemcomitans leukotoxin induces a lipid phase change in the host cell membrane
BUMBA, LADISLAV	INSTITUTE OF MICROBIOLOGY	Structural basis for RTX protein folding upon secretion through the Type I secretion system
BURDETTE, DARA L	UNIVERSITY OF CALIFORNIA, BERKELEY	A Mechanism for the Innate Immune Sensing of Cyclic Dinucleotides
CHANDRASEKARAN, SUKANTHA	WASHINGTON UNIVERSITY IN ST. LOUIS	Analysis of Polymorphic Residues Reveals Distinct Enzymatic and Cytotoxic Activities of the Streptococcus pyogenes
CLARK, SARAH E	UNIVERSITY OF PENNSYLVANIA	Phosphorylcholine allows for evasion of bactericidal antibody by Haemophilus influenzae
CRIMMINS, GREGORY T	UNIVERSITY OF MARYLAND, COLLEGE PARK	Novel Yersinia pseudotuberculosis virulence mechanisms: an organ specific virulence factor and a role for host inflammation in promoting bacterial growth
ESHRAHGI, ARIA	UNIVERSITY OF CALIFORNIA, LOS ANGELES	Host Determinants Governing Interactions With Cytotoxic Distending Toxins
EULENBURG, GEORG	EUROPEAN MOLECULAR BIOLOGY LABORATORY HAMBURG	Structural and functional characterization of Yersinia Outer Protein P (YopP)
KULLAS, AMY L	STONY BROOK UNIVERSITY	Salmonella utilize L-asparaginase II to inhibit the response of mammalian T cells
LAROCK, CHRISTOPHER	UNIVERSITY OF WASHINGTON	Arrested inflammasome formation permits bacterial evasion of pyroptosis
LAROCK, DORIS L	UNIVERSITY OF WASHINGTON	A Salmonella Typhimurium translocated glycerophospholipid: cholesterol acyltransferase promotes virulence by binding to the RhoA switch regions
LIU, JANET Z	UNIVERSITY OF CALIFORNIA, IRVINE	Zinc sequestration by the neutrophil protein calprotectin enhances Salmonella growth in the inflamed gut.

MAUDSDOTTER, LISA	STOCKHOLM UNIVERSITY	Lactobacilli inhibit adherence of pathogenic bacteria to host cells by interfering with host cell calcium signalling
MCCLUSKEY, ANDREW J	HARVARD MEDICAL SCHOOL	Changing the receptor specificity of anthrax toxin
MOZOLA, CARA C	WASHINGTON UNIVERSITY IN ST. LOUIS	Investigating a role for SPN in the membrane binding of Streptolysin O
OLIVE, ANDREW J	HARVARD MEDICAL SCHOOL	C. trachomatis-mediated alterations in host protein stability are required for bacterial growth
PECHOUS, ROGER D	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	Evaluating Early Host/Pathogen Interactions During Primary Pneumonic Plague
RISTOW, LAURA C	MEDICAL COLLEGE OF WISCONSIN	P66, the Beta-3-Integrin Ligand of Borrelia burgdorferi, is Critical for Infection of Mice but not Ticks
SHEAHAN, KERRI-LYNN	TUFTS UNIVERSITY	Host Cell Contribution to Type III Secretion in Yersinia pseudotuberculosis.
TAN, YUNHAO	PURDUE UNIVERSITY	Distinct bacterial proteins target host small GTPase Rab1 by reversible phosphorylation
WARFEL, JASON M	FOOD AND DRUG ADMINISTRATION / CBER	Airborne Transmission and Host Immune Response in a Nonhuman Primate Model of Bordetella pertussis Infection
WINTER, SEBASTIAN	UC DAVIS	Host-derived nitrate boosts growth of E. coli in the inflamed gut

Poster Session 2

Name	Organization	Poster Title
ABBOTT, ZACHARY D	UNIVERSITY OF MICHIGAN	CsrA repressor superfamily and Legionella pneumophila versatility
ALLEN, JONATHAN P	NORTHWESTERN UNIVERSITY FEINBERG SCHOOL OF MEDICIN	Accessory Genomic Elements in Highly Virulent Strains of Pseudomonas aeruginosa
BARRERO-TOBON, ANGELICA M	UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER	Identification and Analysis of Flagellar Co-expressed Determinants (Feds) of Campylobacter jejuni
BOLL, JOSEPH M	UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER	Involvement of the Flagellar MS- and C-Rings in the Regulatory Cascade that Influences Flagellar Gene Expression in Campylobacter jejuni
BURKE, THOMAS P	UC BERKELEY	A Small Non-coding RNA Confers Lysozyme Resistance to the Intracellular Bacterial Pathogen Listeria monocytogenes
GEISINGER, EDWARD	TUFTS UNIVERSITY SCHOOL OF MEDICINE	Capsular Exopolysaccharides are Key Determinants of A. baumannii-Macrophage Interactions and Pathogenicity
HARVEY, RICHARD M	UNIVERSITY OF ADELAIDE	Accessory Regions of the Pneumococcal Genome Contribute to Hypervirulence
HATZIOS, STAVROULA K	BRIGHAM & WOMEN'S HOSPITAL/HARVARD MEDICAL SCHOOL	Studies of dynamic protein-protein interactions in bacteria using Renilla luciferase complementation are undermined by nonspecific enzyme inhibition
HAYES, BETH M	NIH-NIAID RML	Regulation of Outer Surface Protein C by BBD18 in Borrelia burgdorferi
ISAAC, DERVLA T	TUFTS UNIVERSITY SCHOOL OF MEDICINE (ISBERG LAB)	The Legionella pneumophila translocated effector DimB is required for intracellular replication
LLEWELLYN, ANNA C	EMORY UNIVERSITY	FTN_0544 is a novel deacetylase required for lipid A modification and Francisella pathogenesis.
MALLICK, EMILY M	UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL	Actin pedestal formation by AE pathogens promotes systemic shigatoxin-mediated disease.
MCKAY, SUSY	UC BERKELEY	Development of a single-gene, signature-tag-based approach in combination with alanine mutagenesis to identify listeriolysin O residues critical for the in vivo survival of Listeria monocytogenes
MELLIN, JEFFREY R	INSTITUTE PASTEUR	A Cobalamin riboswitch regulates a long antisense RNA in L. monocytogenes
MOREIRA, CRISTIANO G	UT SOUTHWESTERN MEDICAL CENTER	"SrpP, a periplasmic protein in Salmonella enterica serovar Typhimurium involved in virulence and stress-responses"
NAGY, TONI A	UNIVERSITY OF COLORADO-Boulder	Ferric Iron Uptake is Required for Persistent Salmonella Infection
NAPIER, BROOKE	EMORY UNIVERSITY	A novel link between intraphagosomal metabolic requirements and virulence in Francisella
PERRY, KYLE	HARVARD MEDICAL SCHOOL	A FACS/fluorescence microscopy-based genetic screen identifies novel Listeria monocytogenes determinants required for intracellular replication

RADIN, JANA N	VANDERBILT UNIVERSITY MEDICAL CENTER	Analysis of Helicobacter pylori VacA paralogs reveals flagellar localization of an autotransporter protein
RANGEL, STEPHANIE M	NORTHWESTERN UNIVERSITY	Intoxication of phagocytic cells by Pseudomonas aeruginosa ExoS during early pneumonia
REED, SHAWNA C O	UNIVERSITY OF CALIFORNIA, BERKELEY	A tale of two tails: Rickettsia actin-based motility occurs in two temporally and mechanistically distinct phases.
SHAH, PRATIK	BROAD INSTITUTE	A phosphorylation dependent molecular "rheostat" regulates virulence expression in Vibrio cholerae during infection versus metabolism in the environment.
TRAN, CINDY S	UNIVERSITY OF CALIFORNIA SAN FRANCISCO	The type III secretion translocon of Pseudomonas aeruginosa contributes to biofilm formation and host immune response at the epithelial barrier
TROY, ERIN B	TUFTS MEDICAL CENTER	Dissecting population dynamics of Borrelia burgdorferi during infection using massively parallel sequencing
VONAESCH, PASCALE	INSTITUTE OF MICROBIOLOGY, ETH ZURICH	Analysis of Salmonella Typhimurium host cell invasion using micropatterned cells

Conference Registration List

Microbial Toxins & Pathogenicity (GRS)

Gordon Research Seminar

Waterville Valley Resort
July 7-8, 2012

ZACHARY D ABBOTT

UNIVERSITY OF MICHIGAN
MICROBIOLOGY AND IMMUNOLOGY DEPARTMENT
1150 W MEDICAL CENTER DR.
RM# 6751 MED SCI II, M. SWANSON
ANN ARBOR, MI 48109

Phone: 734-647-7294
Fax:
Email: zackabb@umich.edu

Participation: Poster Presenter

JONATHAN P ALLEN

NORTHWESTERN UNIVERSITY FEINBERG SCHOOL OF
MEDICIN
DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY
320 E. SUPERIOR AVE
SEARLE 6-490
CHICAGO, IL 60611

Phone: 312-503-1081
Fax:
Email: jonathan.allen@northwestern.edu

Participation: Poster Presenter

FRANCIS ALONZO

NEW YORK UNIVERSITY SCHOOL OF MEDICINE
DEPARTMENT OF MICROBIOLOGY
MICROBIAL PATHOGENESIS PROGRAM
JOAN AND JOEL SMILOW RESEARCH CENTER, ROOM 1010
NEW YORK, NY 10016

Phone: 212-263-9214
Fax: 212-263-9180
Email: francis.alonzo@nyumc.org

Participation: Poster Presenter

DAVID M ANDERSON

MEDICAL COLLEGE OF WISCONSIN
MICROBIOLOGY, IMMUNOLOGY AND MOLECULAR GENETICS
8701 WATERTOWN PLANK ROAD
MILWAUKEE, WI 53226

Phone: 414-550-2898
Fax:
Email: danderson@mcw.edu

Participation: Poster Presenter

IRENA ANTIC

NORTHWESTERN UNIVERSITY
303 E CHICAGO AVENUE, MICROBIOLOGY-IMMUNOLOGY
DEPARTMENT
SEARLE 3-520
CHICAGO, IL 60611

Phone: 312-503-1503
Fax: 312-503-1339
Email: irenaantic2012@u.northwestern.edu

Participation: Poster Presenter

JEFFREY R BARKER

DUKE UNIVERSITY MEDICAL CENTER
207 RESEARCH DRIVE
DURHAM, NC 27710

Phone: 919-668-2450
Fax:
Email: jeffrey.barker@duke.edu

Participation: Poster Presenter

ANGELICA M BARRERO-TOBON

UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER
5323 HARRY HINES BOULEVARD
DEPARTMENT OF MICROBIOLOGY ROOM NL 4.120H
DALLAS, TX 75390-9048

Phone: 469-321-3110
Fax:
Email: angelica.barrero-tobon@utsouthwestern.edu

Participation: Poster Presenter

JUDITH BEHNSEN

UNIVERSITY OF CALIFORNIA, IRVINE
DEPARTMENT OF MICROBIOLOGY AND MOLECULAR
GENETICS
MED SCI I
IRVINE, CA 92697

Phone: 949-824-0457
Fax:
Email: jbehnsen@uci.edu

Participation: Poster Presenter

JOSEPH M BOLL

UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER
5323 HARRY HINES BOULEVARD
DEPARTMENT OF MICROBIOLOGY ROOM NL 4.120H
DALLAS, TX 75390-9048

Phone: 214-633-1389
Fax: 214-648-5907
Email: joseph.boll@utsouthwestern.edu

Participation: Poster Presenter

ANGELA C BROWN

UNIVERSITY OF PENNSYLVANIA
SCHOOL OF DENTAL MEDICINE, DEPT OF PATHOLOGY
240 S. 40TH ST.
317 LEVY BUILDING
PHILADELPHIA, PA 19104

Phone: 215-895-5073
Fax:
Email: angbrown@dental.upenn.edu

Participation: Poster Presenter

LADISLAV BUMBA

INSTITUTE OF MICROBIOLOGY
VIDENSKA 1083
PRAGUE 14220 CZECH REPUBLIC

Phone: 420-24106-2141
Fax: 420-24106-2152
Email: bumba@biomed.cas.cz

Participation: Poster Presenter

DARA L BURDETTE

UNIVERSITY OF CALIFORNIA, BERKELEY
142 LIFE SCIENCES ADDITION #3200
BERKELEY, CA 94720-3200

Phone: 510-642-3264
Fax:
Email: dburdette@berkeley.edu

Participation: Poster Presenter

THOMAS P BURKE

UC BERKELEY
MCB DEPARTMENT -PORTNOY LAB
510 BARKER HALL
BERKELEY, CA 94720

Phone: 510-643-3926
Fax:
Email: tburke@berkeley.edu

Participation: Poster Presenter

SUKANTHA CHANDRASEKARAN

WASHINGTON UNIVERSITY IN ST. LOUIS
4940 PARKVIEW PLACE MPRB
CAMPUS BOX 8230
ST. LOUIS, MO 63110

Phone: 314-362-7650
Fax:
Email: schandra@go.wustl.edu

Participation: Poster Presenter

SARAH E CLARK

UNIVERSITY OF PENNSYLVANIA
DEPARTMENT OF MICROBIOLOGY
401A JOHNSON PAVILION
3610 HAMILTON WALK
PHILADELPHIA, PA 19104

Phone: 215-573-3510
Fax:
Email: sarclark@mail.med.upenn.edu

Participation: Poster Presenter

GREGORY T CRIMMINS

UNIVERSITY OF MARYLAND, COLLEGE PARK
DEPARTMENT OF CELL BIOLOGY AND MOLECULAR
GENETICS
3113 BIOSCIENCES RESEARCH BUILDING
COLLEGE PARK, MD 20742

Phone: 510-552-0105
Fax:
Email: gregcrimmins@gmail.com

Participation: Poster Presenter

ZACHARY D DALEBROUX

UNIVERSITY OF WASHINGTON
1959 NE PACIFIC STREET, HSB K116
UNIVERSITY OF WASHINGTON
BOX 357710
SEATTLE, WA 98195-7710

Phone: 734-255-9330
Fax:
Email: zddale@uw.edu

Participation: Chair

ARIA ESHRAGHI

UNIVERSITY OF CALIFORNIA, LOS ANGELES
DEPARTMENT OF MICROBIOLOGY, IMMUNOLOGY AND
MOLECULAR GENETICS
609 CHARLES E. YOUNG DR. EAST
MOLECULAR SCIENCE BUILDING
LOS ANGELES, CA 90095-1489

Phone: 925-451-0533
Fax:
Email: aria.e@ucla.edu

Participation: Poster Presenter

GEORG EULENBURG

EUROPEAN MOLECULAR BIOLOGY LABORATORY HAMBURG
EMBL HAMBURG C/O DESY
BUILDING 25A
NOTKESTRASSE 85
HAMBURG 22603 GERMANY

Phone: 49-408-990-2189
Fax: 49-408-990-2149
Email: eulenburg@embl-hamburg.de

Participation: Poster Presenter

EDWARD GEISINGER

TUFTS UNIVERSITY SCHOOL OF MEDICINE
DEPT OF MOLECULAR BIOLOGY & MICROBIOLOGY
JAHARIS BLDG, RM 424
136 HARRISON AVE
BOSTON, MA 02111

Phone: 617-636-4092
Fax:
Email: edward.geisinger@tufts.edu

Participation: Poster Presenter

RICHARD M HARVEY

UNIVERSITY OF ADELAIDE
MOLECULAR LIFE SCIENCES BUILDING
NORTH TERRACE CAMPUS
ADELAIDE 5005 AUSTRALIA

Phone: 61-8831-36927
Fax:
Email: richard.harvey@adelaide.edu.au

Participation: Poster Presenter

STAVROULA K HATZIOS

BRIGHAM & WOMEN'S HOSPITAL/HARVARD MEDICAL
SCHOOL
CHANNING LAB
181 LONGWOOD AVENUE
BOSTON, MA 02115

Phone: 617-525-4665
Fax:
Email: skhatzios@gmail.com

Participation: Poster Presenter

BETH M HAYES

NIH-NIAID RML
903 S. 4TH ST
HAMILTON, MT 59840

Phone: 406-363-9402
Fax:
Email: hayesb@niaid.nih.gov

Participation: Poster Presenter

DERVLA T ISAAC

TUFTS UNIVERSITY SCHOOL OF MEDICINE (ISBERG LAB)
DEPT. OF MOLECULAR BIOLOGY AND MICROBIOLOGY
150 HARRISON AVE
BOSTON, MA 02111

Phone: 617-636-4092
Fax: 617-636-0337
Email: dervla.isaac@tufts.edu

Participation: Poster Presenter

RALPH R ISBERG

HHMI/TUFTS UNIVERSITY SCHOOL OF MEDICINE
DEPT OF MOLECULAR BIOLOGY & MICROBIOLOGY
150 HARRISON AVENUE
BOSTON, MA 02111-1800

Phone: 617-636-3993
Fax: 617-636-0337
Email: ralph.isberg@tufts.edu

Participation: Attendee

AMY L KULLAS

STONY BROOK UNIVERSITY
DEPARTMENT OF MOLECULAR GENETICS AND
MICROBIOLOGY
CENTER FOR INFECTIOUS DISEASES
150 CENTERS FOR MOLECULAR MEDICINE
STONY BROOK, NY 11794

Phone: 631-632-4592
Fax:
Email: akullas@ic.sunysb.edu

Participation: Poster Presenter

CHRISTOPHER LAROCK
UNIVERSITY OF WASHINGTON
DEPARTMENT OF MICROBIOLOGY
CAMPUS BOX 357735
SEATTLE, WA 98195

Phone: 206-551-8604
Fax:
Email: larockc@uw.edu

Participation: Poster Presenter

DORIS L LAROCK
UNIVERSITY OF WASHINGTON
DEPARTMENT OF MICROBIOLOGY
BOX 357735
1959 NE PACIFIC STREET
SEATTLE, WA 98195

Phone: 206-221-5233
Fax:
Email: dluk@uw.edu

Participation: Poster Presenter

JANET Z LIU
UNIVERSITY OF CALIFORNIA, IRVINE
MICROBIOLOGY AND MOLECULAR GENETICS
B262 MEDICAL SCIENCE I
IRVINE, CA 92697

Phone: 949-824-0457
Fax:
Email: jzliu@uci.edu

Participation: Poster Presenter

ANNA C LLEWELLYN
EMORY UNIVERSITY
EMORY VACCINE CENTER
954 GATEWOOD RD, ROOM 2052
ATLANTA, GA 30329

Phone: 678-887-5058
Fax:
Email: acllewe@emory.edu

Participation: Poster Presenter

LISA MAUDSDOTTER
STOCKHOLM UNIVERSITY
DEPARTMENT OF GENETICS, MICROBIOLOGY AND
TOXICOLOGY
SVANTE ARRHENIUSVAG 20C, VAN5
STOCKHOLM 10691 SWEDEN

Phone: 46-8-164192
Fax:
Email: lisa.maudsdotter@gmt.su.se

Participation: Poster Presenter

ANDREW J MCCLUSKEY
HARVARD MEDICAL SCHOOL
200 LONGWOOD AVE
WARREN ALPERT BUILDING # 352
BOSTON, MA 02115

Phone: 617-432-1931
Fax:
Email: andrew_mccluskey@hms.harvard.edu

Participation: Poster Presenter

SUSY MCKAY
UC BERKELEY
510 BARKER HALL #3202
BERKELEY, CA 94720-3202

Phone: 858-882-7713
Fax:
Email: susymckay@gmail.com

Participation: Poster Presenter

JEFFREY R MELLIN
INSTITUTE PASTEUR
25-28 RUE DU DOCTEUR ROUX
PARIS 75015 FRANCE

Phone: +33649552359
Fax:
Email: jeffrey.mellin@pasteur.fr

Participation: Poster Presenter

CRISTIANO G MOREIRA
UT SOUTHWESTERN MEDICAL CENTER
6000 HARRY HINES BLVD.
DALLAS, TX 75390

Phone: 214-502-3036
Fax:
Email: cristiano.moreira@utsouthwestern.edu

Participation: Poster Presenter

CARA C MOZOLA

WASHINGTON UNIVERSITY IN ST. LOUIS
4940 PARKVIEW PLACE
CAPARON LAB ROOM 10250
SAINT LOUIS, MO 63110

Phone: 314-362-7650
Fax:
Email: caramozola@gmail.com

Participation: Poster Presenter

TONI A NAGY

UNIVERSITY OF COLORADO- BOULDER
MCD BIOLOGY
CAMPUS BOX 347 UCB
BOULDER, CO 80309

Phone: 970-988-8672
Fax: 303-492-7744
Email: toni.nagy@colorado.edu

Participation: Poster Presenter

BROOKE NAPIER

EMORY UNIVERSITY
954 GATEWOOD RD.
ATLANTA, GA 30322

Phone: 404-712-9467
Fax:
Email: banapie@emory.edu

Participation: Poster Presenter

ANDREW J OLIVE

HARVARD MEDICAL SCHOOL
DEPT OF MICROBIOLOGY AND IMMUNOBIOLOGY
200 LONGWOOD AVE WAB347
BOSTON, MA 02115

Phone: 617-432-1875
Fax:
Email: aolive@fas.harvard.edu

Participation: Poster Presenter

ROGER D PECHOUS

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
116 MANNING DR.
MARY ELLEN JONES ROOM 519
CHAPEL HILL, NC 27599

Phone: 815-276-5387
Fax:
Email: pechous@hotmail.com

Participation: Poster Presenter

KYLE PERRY

HARVARD MEDICAL SCHOOL
DEPARTMENT OF MICROBIOLOGY AND IMMUNOBIOLOGY
200 LONGWOOD AVE
ARMENISE BUILDING, ROOM 313
BOSTON, MA 02215

Phone: 810-845-3239
Fax:
Email: kyle_perry@hms.harvard.edu

Participation: Poster Presenter

JANA N RADIN

VANDERBILT UNIVERSITY MEDICAL CENTER
A2200 MEDICAL CENTER N
1161 21ST AVE. S
NASHVILLE, TN 37232

Phone: 615-322-8850
Fax:
Email: jana.n.radin@vanderbilt.edu

Participation: Poster Presenter

STEPHANIE M RANGEL

NORTHWESTERN UNIVERSITY
MICROBIOLOGY-IMMUNOLOGY DEPARTMENT
303 E CHICAGO AVE
SEARLE 6-490
CHICAGO, IL 60611

Phone: 219-545-3006
Fax:
Email: stephanierangel2014@u.northwestern.edu

Participation: Poster Presenter

SHAWNA C O REED

UNIVERSITY OF CALIFORNIA, BERKELEY
GRADUATE GROUP IN MICROBIOLOGY / MOL CELL BIOL
305 LIFE SCIENCES ADDITION
BERKELEY, CA 94720-3200

Phone: 510-289-4211
Fax:
Email: screed@berkeley.edu

Participation: Poster Presenter

AIMEE L RICHARD

UNIVERSITY OF PENNSYLVANIA
DEPARTMENT OF MICROBIOLOGY
404 JOHNSON PAVILION
3610 HAMILTON WALK
PHILADELPHIA, PA 19104

Phone: 978-870-7059
Fax:
Email: alrich@umich.edu

Participation: Chair

LAURA C RISTOW

MEDICAL COLLEGE OF WISCONSIN
TBRC C3688
DEPARTMENT OF MICROBIOLOGY & MOLECULAR GENETICS
MILWAUKEE, WI 53226

Phone: 414-955-2211
Fax:
Email: lristow@mcw.edu

Participation: Poster Presenter

PRATIK SHAH

BROAD INSTITUTE
7 CAMBRIDGE CENTER
CAMBRIDGE, MA 02142

Phone: 617-643-0578
Fax:
Email: pratik@broadinstitute.org

Participation: Poster Presenter

KERRI-LYNN SHEAHAN

TUFTS UNIVERSITY
DEPARTMENT OF MOLECULAR BIOLOGY AND
MICROBIOLOGY
150 HARRISON AVE
JAHARIS 424
BOSTON, MA 02111

Phone: 401-633-4833
Fax:
Email: kerri-lynn.sheahan@tufts.edu

Participation: Poster Presenter

YUNHAO TAN

PURDUE UNIVERSITY
DEPARTMENT OF BIOLOGICAL SCIENCES
915 WEST STATE STREET
WEST LAFAYETTE, IN 47907

Phone: 765-491-2576
Fax:
Email: tany@purdue.edu

Participation: Poster Presenter

CINDY S TRAN

UNIVERSITY OF CALIFORNIA SAN FRANCISCO
DEPARTMENT OF MICROBIOLOGY
505 PARNASSUS AVE
HEALTH SCIENCES EAST RM 407
SAN FRANCISCO, CA 94143

Phone: 415-425-3189
Fax:
Email: cindytran9999@gmail.com

Participation: Poster Presenter

ERIN B TROY

TUFTS MEDICAL CENTER
GEOGRAPHIC MEDICINE AND INFECTIOUS DISEASE
800 WASHINGTON STREET
BOX #41
BOSTON, MA 02111

Phone: 617-636-7613
Fax: 617-636-3216
Email: etroy@tuftsmedicalcenter.org

Participation: Poster Presenter

PASCALE VONAESCH

INSTITUTE OF MICROBIOLOGY, ETH ZURICH
WOLFGANG-PAULI-STR. 10
ZURICH 8093 SWITZERLAND

Phone: 41-446-323355
Fax:
Email: pascale.vonaesch@micro.biol.ethz.ch

Participation: Poster Presenter

JASON M WARFEL

FOOD AND DRUG ADMINISTRATION / CBER
DIVISION OF BACTERIAL, PARASITIC AND ALLERGENIC
PRODUCTS
29 LINCOLN DR, ROOM 414
BETHESDA, MD 20892

Phone: 301-496-8183
Fax:
Email: jason.warfel@fda.hhs.gov

Participation: Poster Presenter

SEBASTIAN WINTER
UC DAVIS
DEPT. OF MEDICAL MICROBIOLOGY & IMMUNOLOGY
ONE SHIELDS AVE
DAVIS, CA 95616

Phone: 530-400-8070
Fax:
Email: sewinter@ucdavis.edu

Participation: Poster Presenter