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GORDON RESEARCH CONFERENCES *frontiers of science*

512 Liberty Lane, West Kingston, RI 02892

Phone: 401 783-4011 Fax: 401 783-7644

E-Mail: grc@grc.org

World Wide Web: <http://www.grc.org>

Nancy Ryan Gray, Ph.D.

Director

**2009 GORDON RESEARCH CONFERENCE
on MICROBIAL POPULATION BIOLOGY**

FINAL PROGRESS REPORT

DEPARTMENT OF ENERGY
GRANT NO. DE-SC0001795

The Gordon Research Conference on MICROBIAL POPULATION BIOLOGY was held at Proctor Academy, Andover, New Hampshire, July 19-24, 2009. The Conference was well-attended with 182 participants (attendees list attached). The attendees represented the spectrum of endeavor in this field coming from academia, industry, and government laboratories, both U.S. and foreign scientists, senior researchers, young investigators, and students. Of the 182 attendees, 98 voluntarily responded to a general inquiry regarding ethnicity which appears on our registration forms. Of the 98 respondents, 7% were Minorities –2% Hispanic, 3% Asian & 2% African American. Approximately 35% of the participants at the 2009 meeting were women.

In designing the formal speakers program, emphasis was placed on current unpublished research and discussion of the future target areas in this field. There was a conscious effort to stimulate lively discussion about the key issues in the field today. Time for formal presentations was limited in the interest of group discussions. In order that more scientists could communicate their most recent results, poster presentation time was scheduled. Attached is a copy of the formal schedule and speaker program and the poster program. In addition to these formal interactions, "free time" was scheduled to allow informal discussions. Such discussions are fostering new collaborations and joint efforts in the field.

Thank you for your support of this Conference. As you know, in the interest of promoting the presentation of unpublished and frontier-breaking research, Gordon Research Conferences does not permit publication of meeting proceedings. If you wish any further details, please feel free to contact me. Thank you.

Sincerely,
Tony Dean, PI & Conference Chairperson
UNIVERSITY OF MINNESOTA

MICROBIAL POPULATION BIOLOGY

July 19-24, 2009

Proctor Academy

Andover, NH

Chair:

Tony Dean

Vice Chair:

James J. Bull

The 2009 Gordon Conference on Microbial Population Biology will cover a diverse range of cutting edge issues in the microbial sciences and beyond. Firmly founded in evolutionary biology and with a strongly integrative approach, past Conferences have covered a range of topics from the dynamics and genetics of adaptation to the evolution of mutation rate, community ecology, evolutionary genomics, altruism, and epidemiology. The 2009 Conference is no exception, and will include sessions on the evolution of infectious diseases, social evolution, the evolution of symbioses, experimental evolution, adaptive landscapes, community dynamics, and the evolution of protein structure and function. While genomic approaches continue to make inroads, broadening our knowledge and encompassing new questions, the conference will also emphasize the use of experimental approaches to test hypotheses decisively. As in the past, this Conference provides young scientists and graduate students opportunities to present their work in poster format and exchange ideas with leading investigators from a broad spectrum of disciplines. This meeting is never dull: some of the most significant and contentious issues in biology have been thrashed out here. The 2009 meeting will be no exception.

SUNDAY

2:00 pm - 9:00 pm Arrival and Check-in ([Office Closed 6:00 pm - 7:00 pm](#))

6:00 pm Dinner

7:30 pm - 7:35 pm Welcome / Introductory Comments by GRC Site Staff

7:35 pm - 9:30 pm **THREE DIVERSE TOPICS IN MICROBIAL
POPULATION BIOLOGY**

Discussion Leader: **Peg Riley** (University of Massachusetts)

7:35 pm - 7:45 pm Chair's Introduction

7:45 pm - 8:15 pm **Nicole King** (UC Berkeley)
"The Unicellular Ancestry of Animals"

8:20 pm - 8:35 pm Discussion

8:20 pm - 8:50 pm **Susan Rosenberg** (Baylor College of Medicine)
"Evolvability"

8:50 pm - 8:55 pm Discussion

8:55 pm - 9:25 pm **Nelson Hairston** (Cornell)
"Community Dynamics"

9:25 pm - 9:30 pm Discussion

MONDAY

7:30 am - 8:30 am Breakfast

8:30 am Group Photo

9:00 am - 12:30 pm **PROTEIN EVOLUTION**

Discussion Leader: **Yousif Shamoo** (Rice University)

9:00 am - 9:15 am Chair's Introduction

9:15 am - 9:55 am **Danny Tawfik** (Weizman Institute)
"The Keys to Protein Evolvability"

9:55 am - 10:00 am Discussion

10:00 am Coffee Break

10:15 am - 10:55 am **Shelley Copley** (University of Colorado, Boulder)
"Patching Together Novel Metabolic Pathways Using Promiscuous Enzyme Activities"

10:55 am - 11:00 am Discussion

11:00 am - 11:40 am **Alejandro Vila** (University of Rosario - IBR)
"Adaptive Evolution of Metallo-beta-Lactamases Grants Organismal Fitness by Improving Catalysis and Flexibility"

11:40 am - 11:45 am Discussion

11:45 am - 12:25 pm **Matt Cordes** (University of Arizona)
"Evolution of a New Protein Fold"

12:25 pm - 12:30 pm Discussion

12:30 pm Lunch

1:30 pm - 4:00 pm Free Time

4:00 pm - 6:00 pm Poster Session (A-M)

6:00 pm Dinner

7:30 pm - 9:30 pm **EPIGENETICS**

Discussion Leader: **Ben Kerr** (University of Washington, Seattle)

7:30 pm - 7:45 pm Chair's Introduction

7:45 pm - 8:15 pm **Laura Landweber** (Princeton University)
"RNA-mediated Epigenetic Programming of a Genome-Rearrangement Pathway"

8:15 pm - 8:20 pm Discussion

8:20 pm - 8:50 pm **Oscar Kuipers** (University of Groningen)
"Bet-Hedging in Bacillus Sporulation"

8:50 pm - 8:55 pm Discussion

8:55 pm - 9:25 pm **Howard Ochman** (University of Arizona)
"The Narrow Road to E. coli"

9:25 pm - 9:30 pm Discussion

TUESDAY

7:30 am - 8:30 am Breakfast

9:00 am - 12:30 pm **EXPERIMENTAL EVOLUTION**

Discussion Leader: **Tim Cooper** (University of Houston)

9:00 am - 9:15 am Chair's Introduction

9:15 am - 9:55 am **Tom Ferenci** (University of Sydney)
"Pathways to Diversity"

9:55 am - 10:00 am Discussion

10:00 am Coffee Break

10:15 am - 10:55 am **Patricia Wittkopp** (University of Michigan, Ann Arbor)
"Quantifying Properties of New Regulatory Mutations in Yeast"

10:55 am - 11:00 am Discussion

11:00 am - 11:40 am **Chris Marx** (Harvard University)
"Evolution of C1 Metabolism"

11:40 am - 11:45 am Discussion

11:45 am - 12:25 pm **David Gresham** (Princeton University)
"Genomics of Experimental Evolution"

12:25 pm - 12:30 pm Discussion

12:30 pm Lunch

1:30 pm - 4:00 pm Free Time

4:00 pm - 6:00 pm Poster Session (A-M)

6:00 pm Dinner

7:30 pm - 9:30 pm **EVOLUTION OF DISEASE**

Discussion Leader: **Mary Poss** (Penn State University)

7:30 pm - 7:45 pm Chair's Introduction

7:45 pm - 8:15 pm **Katia Koelle** (Duke University)
"Simple models to understand influenza's complex evolutionary dynamics:
the case of H3N2, H1N1, and influenza B"

8:15 pm - 8:20 pm Discussion

8:20 pm - 8:50 pm **Dustin Brisson** (University of Pennsylvania)
"Ecological Genetics of Lyme Disease"

8:50 pm - 8:55 pm Discussion

8:55 pm - 9:25 pm **Sara Sawyer** (University of Texas, Austin)
"Molecular Evolution of HIV-Host Interactions"

9:25 pm - 9:30 pm Discussion

WEDNESDAY

7:30 am - 8:30 am Breakfast

9:00 am - 12:30 pm	COMMUNITY STRUCTURE AND DYNAMICS
	Discussion Leader: Larry Forney (University of Idaho)
9:00 am - 9:15 am	Chair's Introduction
9:15 am - 9:55 am	Pilar Francino (Joint Genome Institute) "Mammalian Gut Microbiome"
9:55 am - 10:00 am	Discussion
10:00 am	Coffee Break
10:15 am - 10:55 am	Larry Forney (University of Idaho) "Bacterial Biofilms: SSWM at Your Own Risk"
10:55 am - 11:00 am	Discussion
11:00 am - 11:40 am	Sheri Simmons (UC Berkeley) "Community genomics reveals microevolutionary processes in microbial communities"
11:40 am - 11:45 am	Discussion
11:45 am - 12:25 pm	Jed Fuhrman (University of Southern California) "Practical Implications of Microbial Community Structure"
12:25 pm - 12:30 pm	Discussion
12:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Poster Session (N-Z)
6:00 pm	Dinner
7:30 pm - 9:30 pm	ADAPTIVE LANDSCAPES
	Discussion Leader: Holly Wichman (University of Idaho)
7:30 pm - 7:45 pm	Chair's Introduction
7:45 pm - 8:15 pm	Dan Weinreich (Brown University) "Adaptive Landscape of TEM β -Lactamase"
8:15 pm - 8:20 pm	Discussion
8:20 pm - 8:50 pm	Sander Tans (AMOL, University of Amsterdam) "Adaptive Landscape of LacI"
8:50 pm - 8:55 pm	Discussion
8:55 pm - 9:25 pm	Darin Rokyt a (Florida State University) "Extreme Value Theory in Adaptive Landscapes"
9:25 pm - 9:30 pm	Discussion

THURSDAY

7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	SYMBIOSIS
	Discussion Leader: Ellen Simms (UC Berkeley)

9:00 am - 9:15 am	Chair's Introduction
9:15 am - 9:55 am	Michael Wollenberg (University of Wisconsin, Madison) "Evolution in a Symbiotic Niche"
9:55 am - 10:00 am	Discussion
10:00 am	Coffee Break
10:15 am - 10:55 am	Toby Kiers (Vrije Universiteit Amsterdam) "Rhizobia-Legume Symbiosis"
10:55 am - 11:00 am	Discussion
11:00 am - 11:40 am	Marvin Whiteley (University of Texas, Austin) "Bacterial Dinner Conversations"
11:40 am - 11:45 am	Discussion
11:45 am - 12:25 pm	Marilyn Roossinck (Noble Foundation) "Mutualistic Viruses"
12:25 pm - 12:30 pm	Discussion
12:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Poster Session (N-Z)
6:00 pm	Dinner
7:00 pm - 7:30 pm	<u>Business Meeting</u> (Nominations for the next Vice Chair; Fill out Conference Evaluation Forms; Discuss future Site & Scheduling preferences; Election of the next Vice Chair)
7:30 pm - 9:30 pm	SOCIAL EVOLUTION Discussion Leader: Greg Velicer (Indiana University, Bloomington)
7:30 pm - 7:45 pm	Chair's Introduction
7:45 pm - 8:15 pm	Joan Strassmann (Rice University) "Genetics and Behavior of Kin and Non-Kin Interactions in a Social Amoeba"
8:15 pm - 8:20 pm	Discussion
8:20 pm - 8:50 pm	Stuart West (Oxford University) "Kin Selection in Bacteria"
8:50 pm - 8:55 pm	Discussion
8:55 pm - 9:25 pm	Duncan Greig (University College London) "The Yeast Pheromone is an Honest Signal of Mate Quality"
9:25 pm - 9:30 pm	Discussion
FRIDAY	
7:30 am - 8:30 am	Breakfast
9:00 am	Departure

Microbial Population Biology (2009)

Name	Organization	Participation	Status
ABEDON, STEPHEN T	OHIO STATE UNIVERSITY	Poster Presenter	Registered
ALLY, DILARA	UNIVERSITY OF IDAHO	Poster Presenter	Registered
ALMEIDA, RODRIGO	UNIVERSITY OF CALIFORNIA, BERKELEY	Poster Presenter	Registered
ANDERSSON, DAN I	UPPSALA UNIVERSITY	Attendee	Registered
ANKOMAH, PETER	EMORY UNIVERSITY	Poster Presenter	Registered
BAILEY, SUSAN F	UNIVERSITY OF OTTAWA	Poster Presenter	Registered
BALTRUS, DAVID A	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	Poster Presenter	Registered
BARA, JEFFREY J	UNIVERSITY OF LOUISVILLE	Poster Presenter	Registered
BARLOW, MIRIAM	UNIVERSITY OF CALIFORNIA, MERCED	Poster Presenter	Registered
BARRICK, JEFFREY E	MICHIGAN STATE UNIVERSITY	Poster Presenter	Registered
BEAUMONT, HUBERTUS J. E.	LEIDEN UNIVERSITY	Poster Presenter	Registered
BELL, JULIA A	MICHIGAN STATE UNIVERSITY	Attendee	Registered
BELL, GRAHAM	MCGILL UNIVERSITY	Attendee	Registered
BERGMILLER, TOBIAS	ETH ZURICH	Poster Presenter	Registered
BERSHTEIN, SHIMON	HARVARD UNIVERSITY	Poster Presenter	Registered
BLOUNT, ZACHARY D	MICHIGAN STATE UNIVERSITY	Poster Presenter	Registered
BRISSON, DUSTIN R	UNIVERSITY OF PENNSYLVANIA	Speaker	Registered
BROWN, SAM P	UNIVERSITY OF OXFORD	Poster Presenter	Registered
BULL, JAMES J	UNIVERSITY OF TEXAS	Vice Chair	Registered
BURCH, CHRISTINA L	UNIVERSITY OF NORTH CAROLINA	Attendee	Registered
BUTELA, KRISTEN A	UNIVERSITY OF PITTSBURGH	Poster Presenter	Registered
CHANG, ALLAN Y.C.	UNIVERSITY OF MINNESOTA	Poster Presenter	Registered
CHEN, DEBORAH	WASHINGTON UNIVERSITY IN ST LOUIS	Poster Presenter	Registered
CHOU, HSIN-HUNG	HARVARD UNIVERSITY	Poster Presenter	Registered
COHAN, FREDERICK M	WESLEYAN UNIVERSITY	Poster Presenter	Registered
COLLINS, SINEAD	UNIVERSITY OF EDINBURGH	Poster Presenter	Registered
COOPER, JACOB D	UNIVERSITY OF WASHINGTON	Attendee	Registered
COOPER, TIM F	UNIVERSITY OF HOUSTON	Discussion Leader	Registered
COPLEY, SHELLEY D	UNIVERSITY OF COLORADO AT BOULDER	Speaker	Registered
CORDES, MATTHEW H	UNIVERSITY OF ARIZONA	Speaker	Registered
COVERT, ARTHUR W	MICHIGAN STATE UNIVERSITY	Poster Presenter	Registered
DAVIDSON, CARLA J	MICHIGAN STATE UNIVERSITY	Poster Presenter	Registered
DAVIS, BRAD H	UNIVERSITY OF MINNESOTA	Attendee	Registered
DE VISSER, ARJAN	WAGENINGEN UNIVERSITY	Poster Presenter	Registered
DE VOS, MARJON M	AMOLF	Poster Presenter	Registered
DEAN, TONY	UNIVERSITY OF MINNESOTA	Chair	Registered
DENNEHY, JOHN J	QUEENS COLLEGE CUNY	Poster Presenter	Registered
DESAI, MICHAEL M	PRINCETON UNIVERSITY	Poster Presenter	Registered
DUFFY, SIOBAIN M	CENTER FOR INFECTIOUS DISEASE DYNAMICS	Poster Presenter	Registered
DYKHUIZEN, DANIEL E	STONY BROOK UNIVERSITY	Poster Presenter	Registered
EGUIARTE, LUIS	UNAM	Poster Presenter	Registered
EHINGER, MARTINE O	UNIVERSITY OF CALIFORNIA, BERKELEY	Poster Presenter	Registered
ELENA, SANTIAGO F	IBMCP-CSIC	Attendee	Registered
ESCALANTE, ANA ELENA	UNIVERSITY OF MINNESOTA	Poster Presenter	Registered
FERENCI, THOMAS	UNIVERSITY OF SYDNEY	Speaker	Registered
FERGUSON, GAYLE C	MASSEY UNIVERSITY ALBANY	Poster Presenter	Registered
FISHER, DANIEL S	STANFORD UNIVERSITY	Attendee	Registered

FORDE, SAMANTHA E	UNIVERSITY OF CALIFORNIA SANTA CRUZ	Poster Presenter	Registered
FORNEY, LARRY	UNIVERSITY OF IDAHO	Discussion Leader	Registered
FRANCINO, PILAR	CENTRE SUPERIOR D'INVESTIGACIO EN SALUT PUBLICA	Speaker	Registered
FREED, NIKKI E	ETH ZURICH	Poster Presenter	Registered
FUENTES, AYARI	UNIVERSITY OF BATH	Poster Presenter	Registered
FUHRMAN, JED	UNIVERSITY OF SOUTHERN CALIFORNIA	Discussion Leader	Registered
GERTH, MONICA L	MASSEY UNIVERSITY	Poster Presenter	Registered
GIFFORD, DANNA R	UNIVERSITY OF OTTAWA	Poster Presenter	Registered
GOLDMAN, ROBERT	UNIVERSITY OF MINNESOTA	Poster Presenter	Registered
GREIG, DUNCAN	UNIVERSITY COLLEGE LONDON	Speaker	Registered
GRESHAM, DAVID	PRINCETON UNIVERSITY	Speaker	Registered
GUDELJ, IVANA	IMPERIAL COLLEGE LONDON	Poster Presenter	Registered
GUTTMAN, DAVID	UNIVERSITY OF TORONTO	Attendee	Registered
HAIRSTON, NELSON	CORNELL UNIVERSITY	Speaker	Registered
HANAGE, WILLIAM P	IMPERIAL COLLEGE LONDON	Attendee	Registered
HARCOMBE, WILLIAM R	UNIVERSITY OF TEXAS	Poster Presenter	Registered
HEINEMAN, RICHARD H	UNIVERSITY OF TEXAS AT AUSTIN	Poster Presenter	Registered
HUMPHREY, PARRIS T	UNIVERSITY OF ARIZONA	Attendee	Registered
INGLIS, ROBERT F	UNIVERSITY OF OXFORD	Poster Presenter	Registered
JACK, CHANDRA N	RICE UNIVERSITY	Poster Presenter	Registered
JASMIN, JEAN-NICOLAS	WAKE FOREST UNIVERSITY	Poster Presenter	Registered
JEFF, SMITH	INDIANA UNIVERSITY	Poster Presenter	Registered
JEROME, JOHN P	MICHIGAN STATE UNIVERSITY	Poster Presenter	Registered
JOYCE, PAUL	UNIVERSITY OF IDAHO	Attendee	Registered
KANNOLY, SHERIN	UNIVERSITY AT ALBANY, SUNY	Poster Presenter	Registered
KASSEN, REES M	UNIVERSITY OF OTTAWA	Poster Presenter	Registered
KELLER, THOMAS E	UNIVERSITY OF TEXAS AT AUSTIN	Poster Presenter	Registered
KERR, BENJAMIN B	UNIVERSITY OF WASHINGTON	Discussion Leader	Registered
KIERS, TOBY	VRIEJ UNIVERSITAET	Speaker	Registered
KING, NICOLE M	UNIVERSITY OF CALIFORNIA, BERKELEY	Speaker	Registered
KNIES, JENNIFER L	BROWN UNIVERSITY	Poster Presenter	Registered
KOELLE, KATIA	DUKE UNIVERSITY	Speaker	Registered
KOST, CHRISTIAN	MAX PLANCK INSTITUTE FOR CHEMICAL ECOLOGY	Poster Presenter	Registered
KRONE, STEPHEN M	UNIVERSITY OF IDAHO	Attendee	Registered
KUIPERS, OSCAR	RIJKSUNIVERSITEIT GRONINGEN	Speaker	Registered
KUNG, STEPHANIE	UNIVERSITY OF CALIFORNIA, BERKELEY	Poster Presenter	Registered
KUSSELL, EDO L	NEW YORK UNIVERSITY	Poster Presenter	Registered
LANDWEBER, LAURA F	PRINCETON UNIVERSITY	Speaker	Registered
LANG, GREG I	LEWIS-SIGLER INSTITUTE, PRINCETON UNIVERSITY	Poster Presenter	Registered
LEE, MING-CHUN	HARVARD UNIVERSITY	Poster Presenter	Registered
LEVIN, BRUCE R	EMORY UNIVERSITY	Poster Presenter	Registered
LINDSEY, HALEY A	UNIVERSITY OF WASHINGTON	Poster Presenter	Registered
MACLEAN, CALUM J	UNIVERSITY OF MICHIGAN	Poster Presenter	Registered
MARTIN, GUILLAUME	CNRS	Poster Presenter	Registered
MARX, CHRISTOPHER J	HARVARD UNIVERSITY	Speaker	Registered
MAUGHAN, HEATHER	UNIVERSITY OF TORONTO	Attendee	Registered
MCBRIDE, ROBERT C	YALE UNIVERSITY	Poster Presenter	Registered
MCCANN, HONOUR C	UNIVERSITY OF TORONTO	Poster Presenter	Registered

MCLAUGHLIN, RICK	UT SOUTHWESTERN MEDICAL CENTER	Poster Presenter	Registered
MEYER, JUSTIN R	MICHIGAN STATE UNIVERSITY	Poster Presenter	Registered
MORGAN, ANDREW D	UNIVERSITY OF OXFORD	Poster Presenter	Registered
MURPHY, HELEN A	WAKE FOREST UNIVERSITY	Poster Presenter	Registered
NAHUM, JOSHUA R	UNIVERSITY OF WASHINGTON	Poster Presenter	Registered
NIKOLIC, NELA	ETH-ZURICH AND EAWAG	Poster Presenter	Registered
NILSSON, SUSANNA	IMPERIAL COLLEGE LONDON	Poster Presenter	Registered
O'BRIEN, HEATH E	UNIVERSITY OF TORONTO	Poster Presenter	Registered
OCHMAN, HOWARD	UNIVERSITY OF ARIZONA	Speaker	Registered
OFRIA, CHARLES A	MICHIGAN STATE UNIVERSITY	Attendee	Registered
OSTASIEWSKI, MEGHNA B	WAKE FOREST UNIVERSITY	Poster Presenter	Registered
OSTROWSKI, ELIZABETH A	RICE UNIVERSITY	Poster Presenter	Registered
PATRICK, WAYNE M	MASSEY UNIVERSITY	Poster Presenter	Registered
PEÑA, MATTHEW I	RICE UNIVERSITY	Poster Presenter	Registered
PERRON, GABRIEL G.	UNIVERSITY OF OXFORD	Poster Presenter	Registered
POELWIJK, FRANK	UTSW MEDICAL CENTER	Poster Presenter	Registered
POLTAK, STEFFEN R	UNIVERSITY OF NEW HAMPSHIRE	Poster Presenter	Registered
POSS, MARY	PENNSYLVANIA STATE UNIVERSITY	Discussion Leader	Registered
PURDY, MEGAN E	UNIVERSITY OF LOUISVILLE	Poster Presenter	Registered
QUANCE, MICHAEL A.	UNIVERSITY OF HOUSTON	Poster Presenter	Registered
QUELLER, DAVID C	RICE UNIVERSITY	Poster Presenter	Registered
QUIGLEY, BENJAMIN JZ	UNIVERSITY OF OXFORD	Poster Presenter	Registered
RAINEY, PAUL B	MASSEY UNIVERSITY	Poster Presenter	Registered
RATCLIFF, WILLIAM C	UNIVERSITY OF MINNESOTA	Poster Presenter	Registered
REBOLLAR, ERIA A	UNIVERSIDAD NACIONAL AUTONOMA DE MEXICO	Poster Presenter	Registered
REDFIELD, ROSIE J	UNIVERSITY OF BRITISH COLUMBIA	Poster Presenter	Registered
REEVES, PETER R	UNIVERSITY OF SYDNEY	Poster Presenter	Registered
REFARDT, DOMINIK	ETH ZUERICH	Poster Presenter	Registered
REMOLD, SUSANNA K	UNIVERSITY OF LOUISVILLE	Attendee	Registered
RETCHLESS, ADAM C	UNIVERSITY OF PITTSBURGH	Poster Presenter	Registered
ROKYTA, DARIN R	FLORIDA STATE UNIVERSITY	Speaker	Registered
ROOSSINCK, MARILYN J	NOBLE FOUNDATION	Speaker	Registered
ROSENBERG, SUSAN M	BAYLOR COLLEGE OF MEDICINE	Speaker	Registered
ROYCHOUDHURY, PAVITRA	UNIVERSITY OF IDAHO	Attendee	Registered
SALVERDA, MERIJN	WAGENINGEN UNIVERSITY	Poster Presenter	Registered
SAMANI, PEDRAM	MCGILL UNIVERSITY	Poster Presenter	Registered
SAWYER, SARA	UNIVERSITY OF TEXAS AT AUSTIN	Speaker	Registered
SAXER, GERDA	RICE UNIVERSITY	Poster Presenter	Registered
SCHOUSTRA, SIJMEN E	UNIVERSITY OF OTTAWA	Poster Presenter	Registered
SCHUETTE, URSEL	UNIVERSITY OF IDAHO	Poster Presenter	Registered
SCHUSTER, BRIAN M	UNIVERSITY OF NEW HAMPSHIRE	Poster Presenter	Registered
SEELKE, RALPH W.	UNIVERSITYOF WISCONSIN-SUPERIOR	Poster Presenter	Registered
SELMECKI, ANNA M	DANA-FARBER CANCER INSTITUTE	Poster Presenter	Registered
SHAMOO, YOUSIF	RICE UNIVERSITY	Discussion Leader	Registered
SHAPIRO, JASON W	YALE UNIVERSITY	Poster Presenter	Registered
SILANDER, OLIN K	ETH MOLECULAR MICROBIAL ECOLOGY	Poster Presenter	Registered
SIMMONS, SHERI	UNIVERSITY OF CALIFORNIA	Speaker	Registered
SIMMS, ELLEN L	UNIVERSITY OF CALIFORNIA	Discussion Leader	Registered

SINGH, AMOOLYA	EMORY UNIVERSITY	Poster Presenter	Registered
SMITH, NOEL H	UNIVERSITY OF SUSSEX	Attendee	Registered
SMITH, CARL AM	UNIVERSITY COLLEGE LONDON	Poster Presenter	Registered
SOUZA, VALERIA	UNAM	Poster Presenter	Registered
SPENCER, CHRISSY C	LEES-MCRAE COLLEGE	Attendee	Registered
STOEBEL, DANIEL M	TRINITY COLLEGE, DUBLIN	Poster Presenter	Registered
STONE, MELISSA B	UNIVERSITY AT ALBANY SUNY	Attendee	Registered
STRASSMANN, JOAN E	RICE UNIVERSITY	Speaker	Registered
TANS, SANDER J	AMOLF INSTITUTE	Speaker	Registered
TAWFIK, DAN S	WEIZMANN INSTITUTE OF SCIENCE	Speaker	Registered
TAYLOR, TIFFANY B	UNIVERSITY OF OXFORD	Poster Presenter	Registered
TOP, EVA M	UNIVERSITY OF IDAHO	Poster Presenter	Registered
TRAVISANO, MICHAEL	UNIVERSITY OF MINNESOTA	Poster Presenter	Registered
TURNER, PAUL	YALE UNIVERSITY	Attendee	Registered
TYERMAN, JABUS G	UNIVERSITY OF IDAHO (MOSCOW)	Poster Presenter	Registered
UDEKWU, KLAS I	EMORY UNIVERSITY	Poster Presenter	Registered
VELICER, GREGORY J	INDIANA UNIVERSITY	Discussion Leader	Registered
VILA, ALEJANDRO	UNIVERSITY OF ROSARIO - IBR	Speaker	Registered
VOS, MICHIEL	NIOO KNAW CENTRE FOR TERRESTRIAL ECOLOGY	Poster Presenter	Registered
VRIEZEN, JAN A.C.	UNIVERSITY OF MASSACHUSETTS	Poster Presenter	Registered
WANG, ING-NANG	SUNY, ALBANY	Attendee	Registered
WEI, YAN	EMORY UNIVERSITY	Poster Presenter	Registered
WEINREICH, DANIEL	BROWN UNIVERSITY	Speaker	Registered
WEISSMAN, DANIEL B	STANFORD UNIVERSITY	Poster Presenter	Registered
WEST, JEVIN	UNIVERSITY OF WASHINGTON	Poster Presenter	Registered
WEST, STUART	UNIVERSITY OF OXFORD	Speaker	Registered
WHITELEY, MARVIN	UNIVERSITY OF TEXAS AT AUSTIN	Speaker	Registered
WICHMAN, HOLLY A	UNIVERSITY OF IDAHO	Discussion Leader	Registered
WILDSCHUTTE, HANS K	MIT	Poster Presenter	Registered
WILLETT, LINDSEY E	UNIVERSITY OF LOUISVILLE	Poster Presenter	Registered
WILLIAMS, BARRY L	MICHIGAN STATE UNIVERSITY	Poster Presenter	Registered
WILPISZESKI, REGINA L	YALE UNIVERSITY	Poster Presenter	Registered
WISER, MICHAEL J	MICHIGAN STATE UNIVERSITY	Poster Presenter	Registered
WITTKOPP, PATRICIA J	UNIVERSITY OF MICHIGAN	Speaker	Registered
WOLLENBERG, MICHAEL	UNIVERSITY OF WISCONSIN - MADISON	Speaker	Registered
WONG, ALEX	UNIVERSITY OF OTTAWA	Poster Presenter	Registered
YI, XIAO	UNIVERSITY OF MINNESOTA	Attendee	Registered
ZEYL, CLIFFORD W	WAKE FOREST UNIVERSITY	Poster Presenter	Registered
ZHANG, QUANGUO	BEIJING NORMAL UNIVERSITY	Poster Presenter	Registered