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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

**2010 GORDON RESEARCH CONFERENCE
on MARINE MICROBES**

FINAL PROGRESS REPORT

DEPARTMENT OF ENERGY
GRANT NO. DE-SC0004836

The Gordon Research Conference on **MARINE MICROBES** was held at Tilton School, Tilton, New Hampshire, July 4-9, 2010. The Conference was well-attended with 134 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 134 attendees, 52 voluntarily responded to a general inquiry regarding ethnicity which appears on our registration forms. Of the 52 respondents, 10% were Minorities – 8% Asian and 2% African American. Approximately 58% of the participants at the 2010 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In designing the formal speakers program, emphasis was placed on current unpublished research and discussion of the future target areas in this field.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 As you know, in the interest of promoting the presentation of unpublished and frontier-breaking research, Gordon Research Conferences does not permit publication of meeting proceedings.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,
Merritt Maduke, Conference Chairperson
STANFORD UNIVERSITY

MARINE MICROBES

From Genes to Global Cycles

July 4-9, 2010

Tilton School

Tilton, NH

Chairs:

David L. Kirchman & Michael Wagner

Vice Chair:

Raffaella Casotti

Marine microbes include representatives from all three kingdoms of life and collectively carry out virtually all forms of metabolisms found on the planet. Because of this metabolic and genetic diversity, these microbes mediate many of the reactions making up global biogeochemical cycles which govern the flow of energy and material in the biosphere. The goal of this conference is to bring together approaches and concepts from studies of microbial evolution, genomics, ecology, and oceanography in order to gain new insights into marine microbes and their biogeochemical functions. The integration of scales, from genes to global cycles, will result in a better understanding of marine microbes and of their contribution to the carbon cycle and other biogeochemical processes.

Contributors

AGOURON
INSTITUTE



U.S. DEPARTMENT OF
ENERGY

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 - 7:40 pm Welcome / Introductory Comments by GRC Site Staff

7:40 pm - 9:30 pm **ECOLOGICAL GENOMICS I**

Discussion Leader: **Anton Post** (Marine Biological Laboratory)

7:40 pm - 8:20 pm **Edward Delong** (Massachusetts Institute of Technology)
"The Impact of Marine Microbial Research on Microbiological Science"

8:20 pm - 8:35 pm	Discussion
8:35 pm - 9:15 pm	Mary Ann Moran (University of Georgia) "Probing the Ocean Carbon Cycle with Functional Metagenomics"
9:15 pm - 9:30 pm	Discussion

MONDAY

7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	GLOBAL CHANGE Discussion Leader: David Caron (University of Southern California)
9:00 am - 9:40 am	Adam Martiny (University of California) "Genetic Adaptation to Nitrogen, Phosphorous and Iron Stress in Marine Cyanobacteria"
9:40 am - 10:00 am	Discussion
10:00 am	Coffee Break / Group Photo
10:30 am - 11:10 am	Sinéad Collins (University of Edinburgh) "Adaptation to Complex Environmental Change"
11:10 am - 11:30 am	Discussion
11:30 am - 12:10 pm	David Hutchins (University of Southern California) "Nutrient Cycles and Marine Microbes in a Changing World"
12:10 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 I
6:00 pm	Dinner
7:30 pm - 9:30 pm	PROTIST PROGRESS Discussion Leader: Raffaella Casotti (Stazione Zoologica Anton Dohrn)
7:30 pm - 8:10 pm	Alexandra Worden (Monterey Bay Aquarium Research Institute) "Genomes of Uncultured Protists"
8:10 pm - 8:30 pm	Discussion
8:30 pm - 9:10 pm	Emily Roberts (Swansea University) "Using Proteomics to Investigate Prey Recognition by Planktonic Protists: A Challenging but Powerful Approach"
9:10 pm - 9:30 pm	Discussion

TUESDAY

7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	ECOLOGICAL GENOMICS II Discussion Leader: Gabrielle Rocap (University of Washington)
9:00 am - 9:40 am	Tatiana Rynearson (University of Rhode Island) "Genomics of Marine Phytoplankton"

9:40 am - 10:00 am	Discussion
10:00 am	Coffee Break
10:30 am - 11:10 am	Thomas Richards (University of Exeter) "Identification of the Complexity of the Eukaryotic Tree of Life Using High Throughput Sequencing Technology"
11:10 am - 11:30 am	Discussion
11:30 am - 12:10 pm	Frank Glöckner (Max Planck Institute for Marine Microbiology) "Marine Ecological Genomics: A Question of Computing Power and Bioinformatics?"
12:10 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 II
6:00 pm	Dinner
7:30 pm - 9:30 pm	ECOLOGICAL PRINCIPLES
	Discussion Leader: Suzanne Strom (Western Washington University)
7:30 pm - 8:10 pm	Katherine McMahon (University of Wisconsin) "Resistance, Resilience, and Recovery of Freshwater Microbial Communities"
8:10 pm - 8:30 pm	Discussion
8:30 pm - 9:10 pm	Jay Lennon (Michigan State University) "Microbial seed banks: implications of dormancy for biodiversity and ecosystem functioning"
9:10 pm - 9:30 pm	Discussion

WEDNESDAY

7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	CARBON CYCLE
	Discussion Leader: Toshi Nagata (University of Tokyo)
9:00 am - 9:40 am	Ingrid Obernosterer (Université Pierre et Marie Curie) "Can Different Sources of Organic Matter Shape Heterotrophic Bacterial Diversity?"
9:40 am - 10:00 am	Discussion
10:00 am	Coffee Break
10:30 am - 11:10 am	Josep Gasol (Institut de Ciències del Mar) "Towards a Trait-Based Bacterioplankton Ecology: Genomic and FISH-Based Experimental Approaches"
11:10 am - 11:30 am	Discussion
11:30 am - 12:10 pm	Gerhard Herndl (University of Vienna) "Deep Ocean Prokaryotes and the Oceanic Carbon Cycle: Current

	Problems in Reconciling in Deep Ocean's Carbon Cycling"
12:10 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 III
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	MARINE ARCHAEA Discussion Leader: Phyllis Lam (Max Planck Institute for Marine Microbiology)
7:30 pm - 8:10 pm	Christopher Francis (Stanford University) "Linking Distinct Groups of Ammonia-Oxidizing Crenarchaeota to Environmental Gradients and Biogeochemical Activity"
8:10 pm - 8:30 pm	Discussion
8:30 pm - 9:10 pm	Anitra Ingalls (University of Washington) "Bridging the Gap between Microbial Ecology and Geochemistry: Ammonia Oxidizers and their Biomarkers"
9:10 pm - 9:30 pm	Discussion

THURSDAY

7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	NEW IN THE N CYCLE Discussion Leader: Douglas Capone (University of Southern California)
9:00 am - 9:40 am	Matthew Church (University of Hawaii) "Spinning the Wheel: The Ocean's Nitrogen Cycle Viewed Through the Lens of Microbial Ecology"
9:40 am - 10:00 am	Discussion
10:00 am	Coffee Break
10:30 am - 11:10 am	Bess Ward (Princeton University) "Implications for C and N Cycling in the Ocean from New Ideas about Nitrification and Denitrification"
11:10 am - 11:30 am	Discussion
11:30 am - 12:10 pm	Marcel Kuypers (Max Planck Institute for Marine Microbiology) "NanoSIMS a New Tool for Marine Microbial Ecology: From Single Cells to Global Flux"
12:10 pm - 12:30 pm	Discussion
12:30 pm	Lunch

1:30 pm - 6:00 pm Free Time

6:00 pm Dinner

7:30 pm - 9:30 pm **GLOBAL MODELS AND VIEWS**

Discussion Leader: **Nianzhi Jiao** (Xiamen University)

7:30 pm - 8:10 pm **John Hobbie** (Marine Biological Laboratory)

"Radioisotopes are the Basis of our Understanding of Ecological Dynamics of Heterotrophs in the Plankton: What goes Wrong when these Isotopes are Added to Sediments and Soils?"

8:10 pm - 8:30 pm Discussion

8:30 pm - 9:10 pm **Scott Doney** (Woods Hole Oceanographic Institution)

"Incorporating Microbial Dynamics into Marine Ecosystem Models"

9:10 pm - 9:30 pm Discussion

FRIDAY

7:30 am - 8:30 am Breakfast

9:00 am Depart

Marine Microbes (2010)

Name	Organization	Participation	Status
AGOGUE, HELENE	CNRS - UNIVERSITY OF LA ROCHELLE	Poster Presenter	Registered
ALTUNKAYA, ALI	UNIVERSITY OF HAWAII AT MANOA	Attendee	Registered
APPRILL, AMY	WOODS HOLE OCEANOGRAPHIC INSTITUTION	Poster Presenter	Registered
BAXTER, ANNE E	NORTHWEST FISHERIES SCIENCE CENTE	Poster Presenter	Registered
BAYINDIRLI, CANSU	PLYMOUTH MARINE LABORATORY	Attendee	Registered
BECKER, JAMIE W	WOODS HOLE OCEANOGRAPHIC INSTITUTION	Poster Presenter	Registered
BEMAN, JOHN M	UNIVERSITY OF CALIFORNIA, MERCED	Poster Presenter	Registered
BERGAUER, KRISTIN	UNIVERSITY OF VIENNA	Attendee	Registered
BRISTOW, LAURA A	UNIVERSITY OF MASSACHUSETTS DARTMOUTH	Poster Presenter	Registered
CAMPBELL, BARBARA	UNIVERSITY OF DELAWARE	Poster Presenter	Registered
CAMPBELL, LISA	TEXAS A&M UNIVERSITY	Poster Presenter	Registered
CAPONE, DOUGLAS G	UNIVERISTY OF SOUTHERN CALIFORNIA	Discussion Leader	Registered
CARON, DAVID	UNIVERSITY OF SOUTHERN CALIFORNIA	Discussion Leader	Registered
CASOTTI, RAFFAELLA	STAZIONE ZOOLOGICA A. DOHRN	Vice Chair	Registered
CELUSSI, MAURO	OGS	Attendee	Registered
CHEN, HUAN	FLORIDA	Attendee	Registered
CHURCH, MATTHEW J	UNIVERSITY OF HAWAII	Speaker	Registered
COLLINS, SINEAD	UNIVERSITY OF EDINBURGH	Speaker	Registered
CORDERO, OTTO X	MIT	Poster Presenter	Registered
COTTRELL, MATTHEW T	UNIVERSITY OF DELAWARE	Attendee	Registered
D'AMBROSIO, LINDSAY A	UNIVERSITY OF NORTH CAROLINA- CHAPEL HILL	Poster Presenter	Registered
DELONG, EDWARD F	MASSACHUSETTES INSTITUTE OF TECHNOLOGY	Speaker	Registered
DICKERSON, TAMAR	FLORIDA A & M UNIVERSITY	Poster Presenter	Registered
DONEY, SCOTT C	WOODS HOLE OCEANOGRAPHIC INSTITUTION	Speaker	Registered
DUGUAY, LINDA	UNIVERSITY OF SOUTHERN CALIFORNIA	Attendee	Registered
DUNN, ANNE K	UNIVERSITY OF OKLAHOMA	Poster Presenter	Registered
EDWARDS, BETHANIE R	SCRIPPS INSTITUTION OF OCEANOGRAPHY	Attendee	Registered
EUM, YOUNGJOON	HOKKAIDO UNIVERSITY	Poster Presenter	Registered
FERNANDEZ, BEATRIZ	INSTITUT DE CIENCIAS DEL MAR (CMIMA-CSIC)	Poster Presenter	Registered
FERRERA, ISABEL	CSIC/ INSTITUTE OF MARINE SCIENCES	Poster Presenter	Registered
FRANCIS, CHRISTOPHER A	STANFORD UNIVERSITY	Speaker	Registered
FUHRMAN, JED	UNIVERSITY OF SOUTHERN CALIFORNIA	Poster Presenter	Registered
GALLINA, ALESSANDRA A	STAZIONE ZOOLOGICA ANTON DOHRN	Poster Presenter	Registered
GAO, YONGHUI	UNIV OF MARYLAND CENTER FOR ENVIRONMENTAL SCIENCE	Poster Presenter	Registered
GASOL, PEP	INSTITUT DE CIENCIAS DEL MAR BARCELONA	Speaker	Registered
GIFFORD, SCOTT M	UNIVERSITY OF GEORGIA	Poster Presenter	Registered
GLOCKNER, FRANK O	MAX PLANCK INSTITUTE FOR MARINE MICROBIOLOGY	Speaker	Registered
GODHE, ANNA	UNIVERSITY OF GOTHENBURG	Poster Presenter	Registered
GRIM, SHARON L	UNIVERSITY OF DELAWARE	Poster Presenter	Registered
GROTE, JANA	UNIVERISTY OF HAWAII	Attendee	Registered
GUNDERSEN, KJELL	UNIVERSITY OF SOUTHERN MISSISSIPPI	Poster Presenter	Registered
HAAIJER, SUZANNE C.M.	RADBOUD UNIVERSITY NIJMEGEN IWWR MICROBIOLOGY	Poster Presenter	Registered
HAMISI, MARIAM I	UNIVERSITY OF DODOMA	Attendee	Registered
HARVEY, ELIZABETH L	URI	Poster Presenter	Registered

HERLEMANN, DANIEL P.R.	INSTITUTE FOR BALTIC SEA RESEARCH, WARNEMÜNDE	Poster Presenter	Registered
HERNDL, GERHARD J	UNIVERSITY OF VIENNA	Speaker	Registered
HOBBIIE, JOHN	MARINE BIOLOGICAL LABORATORY	Speaker	Registered
HUNT, DANA E	DUKE UNIVERSITY	Poster Presenter	Registered
HUNTER-CEVERA, KRISTEN R	WOODS HOLE OCEANOGRAPHIC INSTITUTION	Poster Presenter	Registered
HUTCHINS, DAVID A	UNIVERSITY OF SOUTHERN CALIFORNIA	Speaker	Registered
INGALLS, ANITRA E	UNIVERSITY OF WASHINGTON	Speaker	Registered
JARDILLIER, LUDWIG	UNIVERSITE PARIS-SUD 11	Attendee	Registered
JENKINS, BETHANY D	UNIVERSITY OF RHODE ISLAND	Poster Presenter	Registered
JIAO, NIANZHI	XIAMEN UNIVERSITY	Discussion Leader	Registered
JING, HONGMEI	HKUST	Poster Presenter	Registered
JOHNSON, ZACKARY I	DUKE UNIVERSITY MARINE LABORATORY	Poster Presenter	Registered
JONES, ADRIANE C	UNIVERSITY OF SOUTHERN CALIFORNIA	Poster Presenter	Registered
JONES, STUART E	MICHIGAN STATE UNIVERSITY	Poster Presenter	Registered
JURGENS, KLAUS	LEIBNIZ INSTITUTE FOR BALTIC SEA RESEARCH	Poster Presenter	Registered
KAEPPPEL, EVA C	JACOBS UNIVERSITY BREMEN GMBH	Poster Presenter	Registered
KIM, DIANE Y	UNIVERSITY OF SOUTHERN CALIFORNIA	Poster Presenter	Registered
KIRCHMAN, DAVID L	UNIVERSITY OF DELAWARE	Chair	Registered
KRYC, KELLY	GORDON AND BETTY MOORE FOUNDATION	Attendee	Registered
KUYPERS, MARCEL	MAX PLANCK INSTITUTE FOR MARINE MICROBIOLOGY	Speaker	Registered
LAGHDASS, MELISSA	OBSERVATOIRE OCEANOLOGIQUE DE BANYULS SUR MER	Poster Presenter	Registered
LAM, PHYLLIS	MAX PLANCK INSTITUTE FOR MARINE MICROBIOLOGY	Discussion Leader	Registered
LAMI, RAPHAEL	LABORATOIRE ARAGO	Poster Presenter	Registered
LENGGER, SABINE SK	NIOZ ROYAL NETHERLANDS INSTITUTE FOR SEA RESEARCH	Poster Presenter	Registered
LENNON, JAY	MICHIGAN STATE UNIVERSITY	Speaker	Registered
LOGARES-HAURIE, RAMIRO	INSTITUTE OF MARINE SCIENCES, CSIC	Poster Presenter	Registered
LOVEJOY, CONNIE	LAVAL UNIVERSITY	Poster Presenter	Registered
LUO, HAIWEI	UNIVERSITY OF SOUTH CAROLINA	Poster Presenter	Registered
MARANGER, ROXANE J	UNIVERSITE DE MONTREAL	Attendee	Registered
MARTINY, ADAM	UNIVERSITY OF CALIFORNIA, IRVINE	Speaker	Registered
MCMAHON, KATHERINE	UNIVERSITY OF WISCONSIN, MADISON	Speaker	Registered
MENDEN-DEUER, SUSANNE	UNIV. OF RHODE ISLAND, GRAD. SCH. OF OCEANOGRAPHY	Poster Presenter	Registered
MICHEL, GURVAN	STATION BIOLOGIQUE DE ROSCOFF (CNRS / UPMC)	Poster Presenter	Registered
MICHELOU, VANESSA K	STANFORD UNIVERSITY-HOPKINS MARINE STATION	Poster Presenter	Registered
MITCHELL, JIM G	FLINDERS UNIVERSITY	Attendee	Registered
MOHIT, VANI ND	LAVAL UNIVERSITY	Poster Presenter	Registered
MOHR, WIEBKE	LEIBNIZ-INSTITUT FÜR MEERESWISSENSCHAFTEN	Poster Presenter	Registered
MONIER, ADAM	MONTEREY BAY AQUARIUM RESEARCH INSTITUTE	Poster Presenter	Registered
MORAES, PAULA	INSTITUTO OCEANOGRÁFICO-UNIVERSIDADE DE SÃO PAULO	Attendee	Registered
MORAN, MARY ANN	UNIVERSITY OF GEORGIA	Speaker	Registered
NAGATA, TOSHI	UNIVERSITY OF TOKYO	Discussion Leader	Registered
NANJAPPA, DEEPAK	STAZIONE ZOOLOGICA A. DHORN	Attendee	Registered
NGUYEN, DAN	UNIVERSITE DE MONTREAL	Poster Presenter	Registered
NIKRAD, MRINALINI P	UNIVERSITY OF DELAWARE	Poster Presenter	Registered

NUNOURA, TAKURO	JAPAN AGENCY FOR MARINE-EARTH SCIENCE & TECHNOLOGY	Poster Presenter	Registered
OBERNOSTERER, INGRID	OCEANOLOGIQUE DE BANYULS	Speaker	Registered
ORCUTT, KAREN M	UNIVERSITY OF SOUTHERN MISSISSIPPI	Poster Presenter	Registered
PEARMAN, JOHN K	UNIVERSITY OF WARWICK	Poster Presenter	Registered
PEQUIN, BERANGERE	UNIVERSITE LAVAL	Poster Presenter	Registered
POST, ANTON F	MARINE BIOLOGICAL LAB	Poster Presenter	Registered
RAPPE, MICHAEL S	UNIVERSITY OF HAWAII	Attendee	Registered
REHNSTAM-HOLM, ANN-SOFI	KRISTIANSTAD UNIVERSITY	Poster Presenter	Registered
REIFEL, KRISTEN M	BIGELOW LABORATORY FOR OCEAN SCIENCES	Poster Presenter	Registered
RICHARDS, THOMAS A	UNIVERSITY OF EXETER	Speaker	Registered
RII, YOSHIMI M	UNIVERSITY OF HAWAII AT MANOA	Attendee	Registered
ROBERTS, EMILY C	SWANSEA UNIVERSITY	Speaker	Registered
ROCAP, GABRIELLE	UNIVERSITY OF WASHINGTON	Discussion Leader	Registered
RODRIGUEZ MARTÍNEZ, RAQUEL	INSTITUT DE CIENCIES DEL MAR (CSIC)	Poster Presenter	Registered
RUSCH, ANTJE	SOUTHERN ILLINOIS UNIVERSITY	Poster Presenter	Registered
RYNEARSON, TATIANA A	UNIVERSITY OF RHODE ISLAND	Speaker	Registered
SAECK, EMILY A	GRIFFITH UNIVERSITY	Attendee	Registered
SALMAN, VERENA	MAX PLANCK INSTITUTE FOR MARINE MICROBIOLOGY	Poster Presenter	Registered
SANTORO, ALYSON E	WOODS HOLE OCEANOGRAPHIC INSTITUTION	Poster Presenter	Registered
SCANLAN, DAVID	UNIVERSITY OF WARWICK	Poster Presenter	Registered
SCHUTTE, CHARLES A	UNIVERSITY OF GEORGIA	Attendee	Registered
SIMON, MEINHARD	UNIVERSITY OF OLDENBURG	Poster Presenter	Registered
SOHM, JILL A	UNIVERSITY OF SOUTHERN CALIFORNIA	Poster Presenter	Registered
SOSIK, HEIDI	WOODS HOLE OCEANOGRAPHIC INSTITUTION	Poster Presenter	Registered
STEPANAUSKAS, RAMUNAS	BIGELOW LABORATORY FOR OCEAN SCIENCES	Poster Presenter	Registered
STEWART, GRIEG F	UNIVERSITY OF HAWAII	Poster Presenter	Registered
STROM, SUZANNE L	WESTERN WASHINGTON UNIVERSITY	Discussion Leader	Registered
SUNAMURA, MICHINARI	UNIVERSITY OF TOKYO	Poster Presenter	Registered
SWAN, BRANDON K	BIGELOW LABORATORY FOR OCEAN SCIENCES	Poster Presenter	Registered
THAMATRAKOLN, KIMBERLEE	RUTGERS UNIVERSITY	Poster Presenter	Registered
THOMAS, ROZENN	OBSERVATOIRE OCEANOLOGIQUE DE BANYULS	Poster Presenter	Registered
THOMAS, FRANCOIS	STATION BIOLOGIQUE DE ROSCOFF (CNRS/UPMC)	Poster Presenter	Registered
THORNTON, DANIEL CO	TEXAS A&M UNIVERSITY	Poster Presenter	Registered
TOLAR, BRADLEY B	UNIVERSITY OF GEORGIA	Poster Presenter	Registered
TRISTAN, BARBEYRON	CNRS, STATION BIOLOGIQUE DE ROSCOFF	Poster Presenter	Registered
TSENG, YU-FANG	NATIONAL TAIWAN UNIVERSITY	Poster Presenter	Registered
VARALJAY, VANESSA A	UNIVERSITY OF GEORGIA	Poster Presenter	Registered
VELASQUEZ, IMELDA B	UNIVERSITY OF OTAGO	Poster Presenter	Registered
VILLANUEVA, LAURA	NIOZ ROYAL NETHERLAND INSTITUTE FOR SEA RESEARCH	Poster Presenter	Registered
WAGNER-DOBLER, IRENE	HELMHOLTZ-CENTRE FOR INFECTION RESEARCH	Poster Presenter	Registered
WARD, BESS B	PRINCETON UNIVERSITY	Speaker	Registered
WHITNEY, LEANN P	UNIVERSITY OF RHODE ISLAND	Poster Presenter	Registered
WIDNER, BRITTANY	OLD DOMINION UNIVERSITY	Attendee	Registered
WORDEN, ALEXANDRA Z	MONTEREY BAY AQUARIUM RESEARCH INSTITUTE	Speaker	Registered
YAN, JIA	RADBOUD UNIVERSITY NIJMEGEN	Poster Presenter	Registered

YOUNG, JODI N

OXFORD UNIVERSITY

Poster Presenter Registered

134 Attendees