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**GORDON RESEARCH CONFERENCES** *frontiers of science*  
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**Nancy Ryan Gray, Ph.D.**  
Director

**2008 GORDON RESEARCH CONFERENCE  
on CO<sub>2</sub> ASSIMILATION IN PLANTS: GENOME TO BIOME**

**FINAL PROGRESS REPORT**

DEPARTMENT OF ENERGY  
GRANT NO. DE-FG02-08ER15943

The Gordon Research Conference on CO<sub>2</sub> ASSIMILATION IN PLANTS: GENOME TO BIOME was held at University of New England, Biddeford, ME, August 17-22, 2008. The Conference was well-attended with 99 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.

In designing the formal speakers program, emphasis was placed on current unpublished research and discussion of the future target areas in this field.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 As you know, in the interest of promoting the presentation of unpublished and frontier-breaking research, Gordon Research Conferences does not permit publication of meeting proceedings.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,  
James V. Maroney, PI & Conference Vice Chairperson  
LOUISIANA STATE UNIVERSITY

# CO<sub>2</sub> ASSIMILATION IN PLANTS: GENOME TO BIOME

August 17-22, 2008  
University of New England  
Biddeford, ME  
Chair:  
**Michael E. Salvucci**

Vice Chair:  
**James V. Moroney**

Formerly entitled "CO<sub>2</sub> Fixation and Metabolism in Green Plants", this long-standing Gordon Research Conference has been held on a triennial basis since 1976. In 1990 the participants decided to alternate between sites in the U.S. and outside the U.S. The 2005 conference was held in Europe at the Centre Paul Langevin in Aussois, France, so the 2008 conference returns to a U.S. site - the University of New England in Biddeford, Maine.

The 2008 conference covers basic plant research related to photosynthesis and the subsequent regulation and engineering of carbon assimilation. Approaches that range from post-genomic technologies and systems biology, through to fundamental biochemistry, physiology and molecular biology are integrated within ecological and agronomic contexts. As such, the meeting provides the rare opportunity of a single venue for discussing all aspects of the "carbon-side" of photosynthesis - from genome to biome. The 2008 conference will include an emphasis on the central role of carbon assimilation by plants for developing new sources of bioenergy and for achieving a carbon-neutral planet. A special characteristic of this conference is its "intimacy" with approximately 110 conferees, ranging from beginning graduate students and postdoctoral associates to leading senior plant scientists, engaged in open and forward-thinking discussions in an informal, friendly setting. With extended time devoted to discussion, and the encouragement to challenge dogma, it is unlike other meetings in the U.S. or abroad. Another novel feature of the conference is a session devoted to the latest "hot off the press" findings by both established and early career scientists, picked from the abstracts. Together with an expanded poster discussion in the evening sessions, this session provides an opportunity for early career scientists to present interesting new data and to "test drive" hypotheses in a collegial atmosphere.

For more information contact:

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## Contributors





## SUNDAY

2:00 pm - 11:00 pm	Arrival and Check-in
6:00 pm	Dinner
7:30 pm - 7:45 pm	Welcome / Introductory Comments by GRC Site Staff & Co-Chairs: <b>Michael Salvucci</b> (USDA-ARS, USA) & <b>Anne Borland</b> (University of Newcastle upon Tyne, UK)
7:45 pm - 9:30 pm	<b>ENTRY OF CO<sub>2</sub> INTO LEAVES</b> Discussion Leader: <b>Francesco Loreto</b> (CNR-IBAF, Italy)
7:45 pm - 8:05 pm	Discussion Leader's Introductory Remarks
8:05 pm - 8:30 pm	<b>Jaume Flexas</b> (University of the Balearic Islands, Spain) "Rapid changes of mesophyll conductance in response to environmental variables"
8:30 pm - 8:35 pm	Discussion
8:35 pm - 9:00 pm	<b>John Evans</b> (Australian National University, Australia) "Significant limitations to CO <sub>2</sub> diffusion inside leaves: a popular concept but problematic methodology"
9:00 pm - 9:05 pm	Discussion
9:10 pm - 9:30 pm	Interactive Discussion Period
9:30 pm - 10:30 pm	Conference Social Hour

## MONDAY

7:30 am - 8:30 am	Breakfast
8:30 am	Group Photo
9:00 am - 12:30 pm	<b>CARBON CONCENTRATING MECHANISMS</b> Discussion Leader: <b>George Espie</b> (University of Toronto, Canada)
9:00 am - 9:10 am	Discussion Leader's Introductory Remarks
9:10 am - 9:35 am	<b>Dean Price</b> (Australian National University, Australia) "The cyanobacterial CO <sub>2</sub> concentrating mechanism: transporters, carboxysomes and consideration of components that might be useful for improving plant performance"
9:35 am - 9:40 am	Discussion

9:40 am - 10:05 am	<b>Hideya Fukuzawa</b> (Kyoto University, Japan) "CO <sub>2</sub> -sensing system and inorganic carbon transport in a green alga, Chlamydomonas reinhardtii"
10:05 am - 10:10 am	Discussion
10:10 am	Coffee Break
10:40 am - 11:05 am	<b>Cheryl Kerfeld</b> (DOE Joint Genome Institute, US) "Structure and Function of the Carboxysome: A Bacterial Organelle for CO <sub>2</sub> Capture"
11:05 am - 11:10 am	Discussion
11:10 am - 11:35 am	<b>Yusuke Matsuda</b> (Kwansei-Gakuin University, Japan) "Roles of chloroplastic carbonic anhydrases and CO <sub>2</sub> -sensing mechanisms in marine diatoms"
11:35 am - 11:40 am	Discussion
11:40 am - 12:30 pm	Interactive Discussion Period
12:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Contributed Poster Session I - CO <sub>2</sub> Uptake by Photosynthetic Organisms
6:00 pm	Dinner
7:30 pm - 8:00 pm	<b>POSTER DISCUSSION I- CO<sub>2</sub> UPTAKE BY PHOTOSYNTHETIC ORGANISMS</b>

Interactive Discussion Period for Posters from Session I

Discussion Leaders: **Francesco Loreto** (Consiglio Nazionale Delle Ricerche (CNR)) & **George Espie** (University of Toronto)

8:05 pm - 9:30 pm	<b>NEW TARGETS FOR REDOX REGULATION OF CARBON METABOLISM</b>
	Discussion Leader: <b>Renate Schiebe</b> (University of Osnabrück, Germany)
8:05 pm - 8:15 pm	Discussion Leader's Introductory Remarks
8:15 pm - 8:40 pm	<b>Francesca Sparla</b> (University of Bologna, Italy) "The role of the small intrinsically unstructured protein CP12 in the regulation of carbon metabolism"
8:40 pm - 8:45 pm	Discussion
8:45 pm - 9:10 pm	<b>Toru Hisabori</b> (Tokyo Institute of Technology, Japan) "New target enzymes for redox regulation in chloroplasts revealed by thioredoxin affinity chromatography"
9:10 pm - 9:15 pm	Discussion
9:15 pm - 9:30 pm	Interactive Discussion Period

## TUESDAY

7:30 am - 8:30 am	Breakfast
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9:00 am - 12:30 pm	<b>ENGINEERING OF CO<sub>2</sub> ASSIMILATION</b>
	Discussion Leader: <b>Robert J. Spreitzer</b> (University of Nebraska, US)
9:00 am - 9:10 am	Discussion Leader's Introductory Remarks
9:10 am - 9:35 am	<b>Genhai Zhu</b> (Pioneer HiBred, Inc., USA) "Strategies for engineering an improved Rubisco for increased crop productivity"
9:35 am - 9:40 am	Discussion
9:40 am - 10:05 am	<b>Spencer Whitney</b> (Australian National University, Australia) "Understanding Rubisco biology using plastome transformation"
10:05 am - 10:10 am	Discussion
10:10 am	Coffee Break
10:40 am - 11:05 am	<b>Christoph Peterhaensel</b> (Institute for Biology I, Aachen, Germany) "Enhancement of plant productivity by reduction of photorespiration"
11:05 am - 11:10 am	Discussion
11:10 am - 11:35 am	<b>Manajit Hayer-Hartl</b> (Max Planck Institute of Biochemistry, Germany) "Role of Molecular Chaperones in Rubisco Folding and Assembly"
11:35 am - 11:40 am	Discussion
11:40 am - 12:30 pm	Interactive Discussion Period
12:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Contributed Poster Session II - Regulation, evolution and engineering of C3, CAM and C4 pathways
6:00 pm	Dinner
7:30 pm - 8:00 pm	<b>POSTER DISCUSSION II- REGULATION, EVOLUTION AND ENGINEERING OF C3, CAM AND C4 PATHWAYS</b>
	Interactive Discussion Period for Posters from Session II
	Discussion Leaders: <b>Renate Scheibe</b> (University of Osnabrück, Germany) & <b>Robert Spreitzer</b> (University of Nebraska, US)
8:05 pm - 9:30 pm	<b>CLIMATE CHANGE AND ENERGY CROPS: PROSPECTS FOR ACHIEVING A CARBON NEUTRAL SOCIETY</b>
	Discussion Leader: <b>Christine Raines</b> (University of Essex, UK)
8:05 pm - 8:15 pm	Discussion Leader's Introductory Remarks
8:15 pm - 8:40 pm	<b>Andrew Leakey</b> (University of Illinois, USA) "Genomic ecology of plant-environment interactions"
8:40 pm - 8:45 pm	Discussion
8:45 pm - 9:10 pm	<b>Gail Taylor</b> (University of Southampton, UK)

"Energy crops: Current status and future prospects"

9:10 pm - 9:15 pm Discussion

9:15 pm - 9:30 pm Interactive Discussion Period

## WEDNESDAY

7:30 am - 8:30 am Breakfast

### EARLY CAREER/HOT-OFF-THE-PRESSES SHORT TALKS

#### (short talks to be picked from the abstracts)

Discussion Leader: **James Moroney** (Louisiana State University, USA)

9:00 am - 9:15 am Discussion Leader's Introductory Remarks

9:15 am - 9:30 am **Wataru Yamori** (Australian National University, Australia)

"Effects of Rubisco activase content on the temperature dependence of CO<sub>2</sub> assimilation rate and Rubisco activation state"

9:30 am - 9:35 am Discussion

9:35 am - 9:50 am **Elizabete Carmo-Silva** (University of Lisbon, Portugal)

"Rubisco properties and regulation in C<sub>4</sub> grasses under drought stress"

9:50 am - 9:55 am Discussion

10:00 am Coffee Break

10:30 am - 10:45 am **Sascha Offermann** (Washington State University, US)

"The histone code of photosynthetic genes in maize"

10:45 am - 10:50 am Discussion

10:50 am - 11:05 am **Sarah Covshoff** (University of Cambridge, UK)

"Regulation of C<sub>4</sub> differentiation in *Zea mays*"

11:05 am - 11:10 am Discussion

11:10 am - 11:25 am **Yoshinori Tsuji** (University of Tsukuba, Japan)

"The photosynthetic carbon assimilation in the coccolithophorid, *Emiliania huxleyi* (Haptophyta): Contribution of β-carboxylases"

11:25 am - 11:30 am Discussion

11:30 am - 11:45 am **Scarlett Trimborn** (Alfred Wegener Institute for Polar and Marine Research, Bremerhaven, Germany)

"Effects of CO<sub>2</sub> on growth, photosynthesis and carbon acquisition of key diatom species with emphasis on the Southern Ocean"

11:45 am - 11:50 am Discussion

11:50 am - 12:30 pm Interactive Discussion Period

12:30 pm Lunch

1:30 pm - 4:00 pm Free Time

4:00 pm - 6:00 pm Contributed Poster Session III - Environmental aspects of photosynthesis

6:00 pm Dinner

7:30 pm - 8:00 pm

## POSTER DISCUSSION III- ENVIRONMENTAL ASPECTS OF PHOTOSYNTHESIS

Interactive Discussion Period for Posters from Session III

Discussion Leaders: **Christine Raines** (University of Essex, UK) & **Joseph Berry** (Carnegie Institution, Stanford, USA)

8:05 pm - 9:30 pm

## PHOTOSYNTHESIS IN THE GLOBAL CARBON BALANCE

Discussion Leader: **Joseph Berry** (Carnegie Institution, Stanford, USA)

8:05 pm - 8:15 pm

Discussion Leader's Introductory Remarks

8:15 pm - 8:40 pm

**Dan Yakir** (Weizmann Institute, Israel)

"Carbonyl sulfide (COS), a new tracer linking chloroplasts to atmospheric dynamics"

8:40 pm - 8:45 pm

Discussion

8:45 pm - 9:10 pm

**Michael Behrenfeld** (Oregon State University, USA)

"A physiological perspective on the link between global ocean productivity and climate"

9:10 pm - 9:15 pm

Discussion

9:15 pm - 9:30 pm

Interactive Discussion Period

## THURSDAY

7:30 am - 8:30 am

Breakfast

8:30 am - 9:00 am

Business Meeting: Part I

(Fill out Conference Evaluation Forms)

9:00 am - 12:30 pm

## C4 and CAM PHOTOSYNTHESIS

Discussion Leader: **Carlos Andreo** (University of Rosario, Argentina)

9:00 am - 9:10 am

Discussion Leader's Introductory Remarks

9:10 am - 9:35 am

**Rowan Sage** (University of Toronto, Canada)

"The Evolution of C4 Photosynthesis"

9:35 am - 9:40 am

Discussion

9:40 am - 10:05 am

**James Hartwell** (University of Liverpool, UK)

"Molecular dissection of the circadian coordination of Crassulacean acid metabolism using ultra high-throughput pyrosequencing"

10:05 am - 10:10 am

Discussion

10:10 am

Coffee Break

10:40 am - 11:05 am

**Gerald Edwards** (Washington State University, USA)

"Breaking the Kranz paradigm in terrestrial C4 plants"

11:05 am - 11:10 am

Discussion

11:10 am - 11:35 am

**Mitsue Miyao** (NIAS, Tsukuba, Japan)

"Metabolic consequences of transgenic rice overproducing four C4

enzymes"

11:35 am - 11:40 am Discussion

11:40 am - 12:30 pm Interactive Discussion Period

12:30 pm Lunch

1:30 pm - 6:00 pm Free Time / Optional Group Excursion

6:00 pm Dinner

7:30 pm - 8:20 pm Business Meeting: Part II

(Nominations for the next Vice Chair; Discuss future Site & Scheduling preferences; Election of the next Vice Chair)

8:20 pm - 9:30 pm

## INTEGRATED PROCESSES IN PHOTOSYNTHESIS

Discussion Leader: **Anne Borland** (University of Newcastle upon Tyne, UK)

8:20 pm - 8:30 pm Discussion Leader's Introductory Remarks

8:30 pm - 9:15 pm **Robert Furbank** (CSIRO, Australia)

"Photosynthetic carbon metabolism: the beating heart of integrative plant biology"

9:15 pm - 9:30 pm Interactive Discussion Period

## FRIDAY

7:30 am - 8:30 am Breakfast

9:00 am Departure

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*Last Updated: July 30, 2008*

## CO2 Assimilation In Plants: Genome To Biome (2008)

Name	Organization	Participation	Status
AINSWORTH, ELIZABETH A	USDA ARS	Poster Presenter	Registered
ANDRALOJC, JOHN P	ROTHAMSTED RESEARCH	Poster Presenter	Registered
ANDREO, CARLOS S	UNIVERSIDAD NACIONAL DE ROSARIO	Speaker	Registered
BANG, WOO YOUNG	GYEONGSANG NATIONAL UNIVERSITY	Poster Presenter	Registered
BARRERA, VICTORIA A	NEWCASTLE UNIVERSITY	Poster Presenter	Registered
BARTA, CSENGELE	UNITED STATES DEPARTMENT OF AGRICULTURE, ARS	Attendee	Registered
BARTER, LAURA	IMPERIAL COLLEGE LONDON	Attendee	Registered
BAUWE, HERMANN	UNIVERSITY OF ROSTOCK	Poster Presenter	Registered
BEHRENFELD, MICHAEL	OREGON STATE UNIVERSITY	Speaker	Registered
BERRY, JOSEPH A	CARNEGIE INSTITUTION OF WASHINGTON	Speaker	Registered
BICKFORD, CHRISTOPHER P	UNIVERSITY OF NEW MEXICO	Poster Presenter	Registered
BORLAND, ANNE A	UNIVERSITY OF NEWCASTLE UPON TYNE	Chair	Registered
BOWES, GEORGE	UNIVERSITY OF FLORIDA	Attendee	Registered
BRIX, HANS	UNIVERSITY OF AARHUS	Attendee	Registered
BRUTNELL, THOMAS P	CORNELL UNIVERSITY	Poster Presenter	Registered
CARMO-SILVA, ELIZABETE	LISBON UNIVERSITY	Poster Presenter	Registered
CHASTAIN, CHRIS	MINNESOTA STATE UNIVERSITY-MOORHEAD	Poster Presenter	Registered
COUSINS, ASAPH B	WASHINGTON STATE UNIVERSITY	Poster Presenter	Registered
COVSHOFF, SARAH	UNIVERSITY OF CAMBRIDGE	Poster Presenter	Registered
DALL'OMO, CHARLES E	UNIVERSITY OF LIVERPOOL	Poster Presenter	Registered
DEVER, LOUISA V	UNIVERSITY OF LIVERPOOL	Poster Presenter	Registered
DOMINGUES, TOMAS F	UNIVERSITY OF EDINBURGH	Poster Presenter	Registered
EDWARDS, GERALD	WASHINGTON STATE UNIVERSITY	Speaker	Registered
ESPIE, GEORGE	UNIVERSITY OF TORONTO	Speaker	Registered
EVANS, JOHN R	AUSTRALIAN NATIONAL UNIVERSITY	Speaker	Registered
FLANAGAN, LARRY	UNIVERSITY OF LETHBRIDGE	Poster Presenter	Registered
FLEXAS, JAUME	UNIVERSITAT DE LES ILLES BALEARS	Speaker	Registered
FUKUZAWA, HIDEYA	KYOTO UNIVERSITY	Speaker	Registered
FURBANK, ROBERT T	CSIRO	Speaker	Registered
GALLE, ALEXANDER	UNIVERSITY OF THE BALEARIC ISLANDS	Poster Presenter	Registered
GENTY, BERNARD	CNRS/CEA	Poster Presenter	Registered
GERHART, LACI M	UNIVERSITY OF KANSAS	Poster Presenter	Registered
GHANNOUM, OULA	UNIVERSITY OF WESTERN SYDNEY	Poster Presenter	Registered
GUNAWARDANA, DILANTHA	INTERNATIONAL RICE RESEARCH INSTITUTE	Attendee	Registered

HANSON, DAVID T	UNIVERSITY OF NEW MEXICO	Poster Presenter	Registered
HARTL, ULRICH	MAX-PLANCK INSTITUTE OF BIOCHEMISTRY	Attendee	Registered
HARTWELL, JAMES	UNIVERSITY OF LIVERPOOL	Speaker	Registered
HAYER-HARTL, MANAJIT	MAX PLANCK INSTITUTE OF BIOCHEMISTRY	Speaker	Registered
HISABORI, TORU	TOKYO INSTITUTE OF TECHNOLOGY	Speaker	Registered
HOLADAY, A. SCOTT	TEXAS TECH UNIVERSITY	Poster Presenter	Registered
HU, HONGHONG	UNIVERSITY OF CALIFORNIA, SAN DIEGO	Poster Presenter	Registered
HYLDGAARD, BENITA	UNIVERSITY OF AARHUS	Poster Presenter	Registered
IZUI, KATSURA	KINKI UNIVERSITY	Poster Presenter	Registered
KERFELD, CHERYL	DOE JOINT GENOME INSTITUTE	Speaker	Registered
KIRZHANOV, DMITRY V	MOSCOW STATE UNIVERSITY	Poster Presenter	Registered
KUBIEN, DAVID S	UNIVERSITY OF NEW BRUNSWICK	Poster Presenter	Registered
LEAKEY, ANDREW DB	UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN	Speaker	Registered
LIU, CUIMIN	MAX-PLANCK-INSTITUTE OF BIOCHEMISTRY	Poster Presenter	Registered
LOGAN, BARRY A	BOWDOIN COLLEGE	Poster Presenter	Registered
LORETO, FRANCESCO	CONSIGLIO NAZIONALE DELLE RICERCHE (CNR)	Speaker	Registered
LUDWIG, MARTHA	UNIVERSITY OF WESTERN AUSTRALIA	Poster Presenter	Registered
LYTOVCHENKO, ANNA	MAX-PLANCK-INSTITUTE OF MOLECULAR PLANT PHYSIOLOGY	Poster Presenter	Registered
MASUMOTO, CHISATO	NATIONAL INSTITUTE OF AGROBIOLOGICAL SCIENCES	Poster Presenter	Registered
MATSUDA, YUSUKE	KWANSEI-GAKUIN UNIVERSITY	Speaker	Registered
MESZTER, ROLAND	UNIVERSITY OF LIVERPOOL	Poster Presenter	Registered
MIYAO-TOKUTOMI, MITSUE	NATIONAL INSTITUTE OF AGROBIOLOGICAL SCIENCES	Speaker	Registered
MORONEY, JAMES V	LOUISIANA STATE UNIVERSITY	Vice Chair	Registered
MUELLER-CAJAR, OLIVER M	MAX-PLANCK INSTITUTE OF BIOCHEMISTRY	Poster Presenter	Registered
MUKHERJEE, BRATATI	LOUISIANA STATE UNIVERSITY	Attendee	Registered
NAGAMATSU, HIROAKI	KINKI UNIVERSITY	Poster Presenter	Registered
NAGAYAMA, MAMIKO	IHI INC.	Attendee	Registered
NAVAKOUDI, ELENI	UNIVERSITY OF CRETE	Poster Presenter	Registered
OFFERMANN, SASCHA	WASHINGTON STATE UNIVERSITY	Poster Presenter	Registered
PARRY, MARTIN A J	ROTHAMSTED RESEARCH	Poster Presenter	Registered
PATRICK, LISA D	TEXAS TECH UNIVERSITY	Poster Presenter	Registered
PETERHAENSEL, CHRISTOPH	RWTH AACHEN UNIVERSITY	Speaker	Registered
PIERUSCHKA, ROLAND	CARNEGIE INSTITUTION FOR SCIENCE	Poster Presenter	Registered
POORTER, HENDRIK	UTRECHT UNIVERSITY	Poster Presenter	Registered

PRICE, DEAN	AUSTRALIAN NATIONAL UNIVERSITY	Speaker	Registered
RAGHAVENDRA, AGEPATI S	UNIVERSITY OF HYDERABAD	Poster Presenter	Registered
RAINES, CHRISTINE A	UNIVERSITY OF ESSEX	Vice Chair	Registered
RAO, SRINATH K	QUEEN'S UNIVERSITY	Poster Presenter	Registered
RODAWAY, SHIRLEY	BASF PLANT SCIENCE	Attendee	Registered
ROGERS, ALISTAIR	BROOKHAVEN NATIONAL LABORATORY	Poster Presenter	Registered
SAGE, ROWAN F	UNIVERSITY OF TORONTO	Speaker	Registered
SALVUCCI, MICHAEL E	USDA-ARS	Chair	Registered
SCHEIBE, RENATE	UNIVERSITAT OSNABRUCK	Speaker	Registered
SHARWOOD, ROBERT E	CORNELL UNIVERSITY	Poster Presenter	Registered
SPARLA, FRANCESCA	UNIVERSITY OF BOLOGNA	Speaker	Registered
SPREITZER, ROBERT J	UNIVERSITY OF NEBRASKA	Speaker	Registered
STRODTKOETTER, INGA	UNIVERSITY OF OSNABRUECK	Poster Presenter	Registered
TAYLOR, GAIL	UNIVERSITY OF SOUTHAMPTON	Speaker	Registered
TAZOE, YOUSHI	AUSTRALIAN NATIONAL UNIVERSITY	Poster Presenter	Registered
TRIMBORN, SCARLETT	ALFRED WEGENER INSTITUTE FOR POLAR AND MARINE RESE	Speaker	Registered
TSUJI, YOSHINORI	UNIVERSITY OF TSUKUBA	Poster Presenter	Registered
VAN WIJK, KLAAS J	CORNELL UNIVERSITY	Poster Presenter	Registered
VON CAEMMERER, SUSANNE	AUSTRALIAN NATIONAL UNIVERSITY	Poster Presenter	Registered
VOSLOH, DANIEL	MAX PLANCK INSTITUTE OF MOLECULAR PLANT PHYSIOLOGY	Poster Presenter	Registered
VRABL, DANIEL	UNIVERSITY OF SOUTH BOHEMIA	Poster Presenter	Registered
WANG, DAFU	UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN	Poster Presenter	Registered
WARD, JOY K	UNIVERSITY OF KANSAS	Poster Presenter	Registered
WAY, DANIELLE A	DUKE UNIVERSITY	Poster Presenter	Registered
WESTON, DAVID J	OAK RIDGE NATIONAL LAB	Poster Presenter	Registered
WHITNEY, SPENCER M	AUSTRALIAN NATIONAL UNIVERSITY	Speaker	Registered
WU, YUE-XUAN	SYNGENTA BIOTECHNOLOGY, INC.	Poster Presenter	Registered
YAKIR, DAN	WEIZMANN INSTITUTE OF SCIENCE	Speaker	Registered
YAMANO, TAKASHI	KYOTO UNIVERSITY	Poster Presenter	Registered
YAMORI, WATARU	AUSTRALIAN NATIONAL UNIVERSITY	Poster Presenter	Registered
ZHU, GENHAI	PIONEER HI-BRED INTERNATIONAL, INC	Speaker	Registered