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GORDON RESEARCH CONFERENCES *frontiers of science*

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Nancy Ryan Gray, Ph.D.

Director

2009 GORDON RESEARCH CONFERENCE

on Plant Lipids: Structure, Metabolism & Function

FINAL PROGRESS REPORT

DEPARTMENT OF ENERGY
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The Gordon Research Conference (GRC) on Plant Lipids: Structure, Metabolism & Function was held at Hotel Galvez, TX from 2/01/2009 thru 2/06/2009. The Conference was well-attended with 143 participants (attendees list attached). The attendees represented the spectrum of endeavor in this field coming from academia, industry, and government laboratories, U.S. and foreign scientists, senior researchers, young investigators, and students. Of the 143 participants, 39 voluntarily responded to a general inquiry regarding ethnicity which appears on our registration form. Of the 39, 0% Hispanic, 21% Asian, 0% Hawaiian, 21% Asian/White, 3% African American, 77% Caucasian and 0% Multi-Racial. Approximately 32% 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In designing the formal speakers program, emphasis was placed on current unpublished research and discussion of the future target areas in this field.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.

Sincerely,

Kent Chapman

University Of North

Texas

Plant Lipids: Structure, Metabolism & Function (2009)

Name	Organization	Participation	NSF Support
ANDERSSON, MATS	UNIVERSITY OF GOTHENBURG	Speaker	
ANDRE, CARL	BROOKHAVEN NATIONAL LABORATORY	Poster Presenter	
ASHTON, ANTHONY R	CSIRO	Speaker	
AVNI, ADI	TEL AVIV UNIVERSITY	Poster Presenter	
AWAI, KOICHIRO	SHIZUOKA UNIVERSITY	Poster Presenter	
BAI, SHUANGYI	WASHINGTON STATE UNIVERSITY	Attendee	
BAK, GWANGBAE	POSTECH	Poster Presenter	
BATES, PHILIP D	WASHINGTON STATE UNIVERSITY	Poster Presenter	\$ 930.00
BAUD, SEBASTIEN	INRA-VERSAILLES	Speaker	\$ 80.00
BAYON-DE-NOYER, SHEN Y	INSTITUTE OF BIOLOGICAL CHEMISTRY	Poster Presenter	
BEHNKE, CRAIG	SAPPHIRE ENERGY	Speaker	
BENNING, CHRISTOPH	MICHIGAN STATE UNIVERSITY	Vice Chair	
BEZVODA, RADEK	CHARLES UNIVERSITY	Poster Presenter	
BISHT, NAVEEN C	DONALD DANFORTH PLANT SCIENCE CENTER	Poster Presenter	\$ 250.00
BLEE, ELIZABETH	CNRS	Speaker	\$1,080.00
BORISJUK , LJUDMILLA	LEIBNIZ-INSTITUT FUER PFLANZENGENETIK UND KULTURPF	Poster Presenter	
BOSS, WENDY F	NORTH CAROLINA STATE UNIVERSITY	Speaker	
BROWSE, JOHN A	WASHINGTON STATE UNIVERSITY	Speaker	
BULONE, VINCENT	ROYAL INSTITUTE OF TECHNOLOGY (KTH)	Poster Presenter	
CAHOON, EDGAR B	UNIVERSITY OF NEBRASKA-LINCOLN	Speaker	
CAMPBELL, ALEXIS A	IOWA STATE UNIVERSITY	Poster Presenter	
CASTILLO-FLORES, ANTONIO	UMASS MEDICAL SCHOOL	Poster Presenter	
CHAPMAN, KENT	UNIVERSITY OF NORTH TEXAS	Chair	
CHEN, GRACE Q.	USDA, ARS	Poster Presenter	
CHEN, HUI	WASHINGTON STATE UNIVERSITY	Poster Presenter	
CHEN, XI	IOWA STATE UNIVERSITY	Poster Presenter	
CHOI, HYUNJU	POSTECH	Poster Presenter	\$1,080.00
CONNERTH, MELANIE	GRAZ UNIVERSITY OF TECHNOLOGY	Poster Presenter	
CZABANY, TIBOR	TU GRAZ	Poster Presenter	\$ 930.00
DAHMEN, JEREMY L	WASHINGTON STATE UNIVERSITY	Poster Presenter	\$ 250.00
DAYTON, CHRIS L G	BUNGE LIMITED	Attendee	
DEBONO, ALLAN G	UNIVERSITY OF BRITISH COLUMBIA	Poster Presenter	
DEHESH, KATAYOON	UNIVERSITY OF CALIFORNIA DAVIS	Speaker	
DENOLF, PETER	BAYER BIOSCIENCE N.V.	Attendee	
DING, XIAO	UNIVERSITY OF MISSOURI-ST. LOUIS	Attendee	
DOERMANN, PETER	UNIVERSITY OF BONN	Speaker	
DURRETT, TIMOTHY P	MICHIGAN STATE UNIVERSITY	Poster Presenter	
DYER, JOHN	USDA-ARID LAND AGRICULTURAL RESEARCH CENTER	Discussion Leader	
EASTMOND, PETER	UNIVERSITY OF WARWICK	Speaker	
ELLERSTROM, MATS	GOTHENBURG UNIVERSITY	Poster Presenter	
ERP, HARRIE VAN	INSTITUTE OF BIOLOGICAL CHEMISTRY	Poster Presenter	
FARMAKI, THEODORA	CERTH-INA	Poster Presenter	
FEUSSNER, IVO	UNIVERSITY OF GOETTINGEN	Speaker	
FRANKE, ROCHUS	UNIVERSITY BONN	Speaker	
GILLASPY, GLENDA	VIRGINIA TECH UNIVERSITY	Discussion Leader	

GRAHAM, IAN A	UNIVERSITY OF YORK	Speaker	
GUO, LIANG	UNIVERSITY OF MISSOURI-ST LOUIS	Poster Presenter	
HAAS, JEFFREY A	MONSANTO	Speaker	
HARWOOD, JOHN L	CARDIFF UNIVERSITY	Discussion Leader	
HASLAM, RICHARD P	ROTHAMSTED RESEARCH	Poster Presenter	\$1,080.00
HEILMANN, INGO	GEORG-AUGUST-UNIVERSITY GOTTINGEN	Speaker	
HEINZ, ERNST	UNIVERSITY OF HAMBURG	Discussion Leader	
HORN, PATRICK J	UNIVERSITY OF NORTH TEXAS	Poster Presenter	
HOVAV, RAN	ARO, VOLCANI CENTER	Attendee	
HUANG, ANTHONY	UNIVERSITY OF CALIFORNIA, RIVERSIDE	Speaker	
HUANG, CHIEN-YU	UNIVERSITY OF CALIFORNIA, RIVERSIDE	Poster Presenter	\$1,080.00
ISAACSON, TAL	CORNELL UNIVERSITY	Poster Presenter	
JAWORSKI, JAN	DONALD DANFORTH PLANT SCIENCE CENTER	Vice Chair	
JIN, HUANAN	IOWA STATE UNIVERSITY	Poster Presenter	
KATAVIC, VESNA	UNIVERSITY OF BRITISH COLUMBIA	Poster Presenter	
KELLY, AMELIE A	UNIVERSITY OF WARWICK	Poster Presenter	
KILARU, ARUNA	UNIVERSITY OF NORTH TEXAS	Poster Presenter	\$ 930.00
KOLOMIETS, MIKE V	TEXAS A&M UNIVERSITY	Speaker	
KOO, ABRAHAM JK	MICHIGAN STATE UNIVERSITY	Speaker	\$1,080.00
KUNST, LJERKA	UNIVERSITY OF BRITISH COLUMBIA	Speaker	
LAM, PATRICIA	UNIVERSITY OF BRITISH COLUMBIA	Poster Presenter	
LANTERI, LUCIANA	UNIVERSITY OF MAR DEL PLATA, ARGENTINA	Poster Presenter	
LI, MAOYIN	UNIVERSITY OF MISSOURI-ST. LOUIS	Poster Presenter	
LI, XIAOBO	MICHIGAN STATE UNIVERSITY	Speaker	\$1,080.00
LI, YONGHUA	UNIVERSITY OF BORDEAUX II	Speaker	\$ 900.00
LOU, YING	BROOKHAVEN NATIONAL LABORATORY	Poster Presenter	
LU, BINBIN	MICHIGAN STATE UNIVERSITY	Speaker	
LU, CHAOFU	MONTANA STATE UNIVERSITY	Speaker	
LU, SHIYOU	PURDUE UNIVERSITY	Poster Presenter	
MALMBECKER EDSTAM, MONIKA	LINKOPING UNIVERSITY	Poster Presenter	
MARECHAL, ERIC	LABORATOIRE DE PHYSIOLOGIE CELLULAIRE VEGETALE	Speaker	
MARKHAM, JONATHAN E	DONALD DANFORTH PLANT SCIENCE CENTER	Poster Presenter	
MCNEW, JAMES A	RICE UNIVERSITY	Attendee	
MENDEZ, MICHAEL	SAPPHIRE ENERGY INC	Attendee	
METZ, JIM	MARTEK BIOSCIENCES	Attendee	
MEULEWAETER, FRANK	BAYER BIOSCIENCE	Attendee	
MISHKIND, MICHAEL	NATIONAL SCIENCE FOUNDATION	Attendee	
MISHRA, GIRISH	BROOKHAVEN NATIONAL LABORATORY	Poster Presenter	
MUDGETT, MARY BETH	STANFORD UNIVERSITY	Speaker	
MULLEN, ROBERT	UNIVERSITY OF GUELPH	Speaker	
MUNNIK, TEUN	UNIVERSITY OF AMSTERDAM	Speaker	
NAPIER, JOHNATHAN	ROTHAMSTED RESEARCH	Speaker	
NGUYEN, TAM H	BROOKHAVEN NATIONAL LABORATORY	Poster Presenter	
NIKOLAU, BASIL	IOWA STATE UNIVERSITY	Discussion Leader	
NISHIDA, IKUO	SAITAMA UNIVERSITY	Speaker	
OHLROGGE, JOHN B	MICHIGAN STATE UNIVERSITY	Chair	
OHTA, HIROYUKI	TOKYO INSTITUTE OF TECHNOLOGY	Speaker	

OLIVER, DAVID J	IOWA STATE UNIVERSITY	Attendee	
PERERA, IMARA Y	NORTH CAROLINA STATE UNIVERSITY	Speaker	
PLESKOT, ROMAN	INSTITUTE OF EXPERIMENTAL BOTANY	Poster Presenter	\$ 930.00
POLLARD, MICHAEL	MICHIGAN STATE UNIVERSITY	Discussion Leader	
POTOCKY, MARTIN	INSTITUTE OF EXPERIMENTAL BOTANY	Poster Presenter	
PRINCE, ROGER	EXXONMOBIL RESEARCH & ENGINEERING CO.	Attendee	
REN, ZHONGHAI	MONTANA STATE UNIVERSITY	Attendee	
ROBY, DOMINIQUE	CNRS/INRA	Speaker	\$1,080.00
ROLLETSCHKEK, HARDY	LEIBNIZ-INSTITUT FUER PFLANZENGENETIK UND KULTURPF	Attendee	
RUBIN-WILSON, BETH C.	DOW AGROSCIENCES	Attendee	
SAAVEDRA, LAURA L.	LUND UNIVERSITY	Poster Presenter	\$1,080.00
SANDELIUS, ANNA STINA	UNIVERSITY OF GOTHENBURG	Discussion Leader	
SCHERER, GUENTHER F. E.	LEIBNIZ UNIVERSITAET HANNOVER	Poster Presenter	
SCHWENDER, JOERG	BROOKHAVEN NATIONAL LABORATORY	Speaker	\$ 80.00
SHAH, JYOTI	UNIVERSITY OF NORTH TEXAS	Speaker	
SHANKLIN, JOHN	BROOKHAVEN NATIONAL LAB	Speaker	
SHIMOJIMA, MIE	TOKYO INSTITUTE OF TECHNOLOGY	Speaker	
SHOCKEY, JAY M.	USDA-ARS	Attendee	
SINGH, SURINDER P	CSIRO PLANT INDUSTRY	Poster Presenter	
SOMANCHI, ARAVIND	SOLAZYME INC	Attendee	
STACK, ROBERT J	US DEPARTMENT OF ENERGY	Attendee	
STONE, JULIE M	UNIVERSITY OF NEBRASKA - LINCOLN	Poster Presenter	
STYMNE, STEN	SWEDISH UNIVERSITY OF AGRICULTURAL SCIENCES	Discussion Leader	
TEASTER, NEAL D	THE SAMUEL ROBERTS NOBLE FOUNDATION	Poster Presenter	
TJELLSTRÖM, HENRIK	GOTEBORGS UNIVERSITET/IVM	Poster Presenter	
TOMBOKAN, XENIA	BRUKER OPTICS INC.	Poster Presenter	
TREBST, ACHIM	RUHR UNIVERSITY	Poster Presenter	
TRIPATHY, SWATI	UNIVERSITY OF NORTH TEXAS	Poster Presenter	
TRONCOSO PONCE, MANUEL A	MICHIGAN STATE UNIVERSITY	Poster Presenter	
URBANCZYK-WOCHNIAK, EWA	MONSANTO COMPANY	Attendee	
VERMEER, JOOP	UNIVERSITY OF AMSTERDAM	Speaker	
VOELKER, TONI A	MONSANTO	Discussion Leader	
VU, HIEU S	KANSAS STATE UNIVERSITY	Attendee	
WANG, GELIANG GW	UNIVERSITY OF MISSOURI	Poster Presenter	
WANG, XIAOFENG	UNIVERSITY OF WISCONSIN	Poster Presenter	
WANG, XUEMIN SAM	UNIVERSITY OF MISSOURI-ST. LOUIS AND DANFORTH PLAN	Speaker	
WAYNE, LAURA	WASHINGTON STATE UNIVERSITY	Poster Presenter	\$1,080.00
WELTI, RUTH	KANSAS STATE UNIVERSITY	Discussion Leader	
WHITTLE, EDWARD J	BROOKHAVEN NATIONAL LAB	Poster Presenter	
WURTELE, EVE	IOWA STATE UNIVERSITY	Speaker	
WURTZEL, ELEANORE T	LEHMAN COLLEGE, CUNY	Monitor	
XU, CHANGCHENG	MICHIGAN STATE UNIVERSITY	Speaker	
YAMAOKA, YASUYO	SAITAMA UNIVERSITY	Speaker	
YANG, PEIZHEN	DONALD DANFORTH PLANT SCIENCE CENTER	Poster Presenter	

YANG, WEILI	MICHIGAN STATE UNIVERSITY	Poster Presenter
YU, XIAOHONG	STONYBROOK UNIVERSITY	Attendee
ZAUNER, SIMONE	UNIVERSITY OF HAMBURG	Poster Presenter
ZENG, WEIQING	MICHIGAN STATE UNIVERSITY	Poster Presenter
ZHANG, JAMES	MENDEL BIOTECHNOLOGY INC	Attendee
ZHAO, LIFANG	UNIVERSITY OF BRITISH COLUMBIA	Speaker
ZOU, JITAO	PLANT BIOTECHNOLOGY INSTITUTE	Speaker

143 Attendees

Total NSF Support \$15,000

The Gordon Research Conference on "Plant Lipids: Structure, Metabolism and Function" has been instituted to accelerate research productivity in the field of plant lipids. This conference will facilitate wide dissemination of research breakthroughs, support recruitment of young scientists to the field of plant lipid metabolism and encourage broad participation of the plant lipid community in guiding future directions for research in plant lipids. This conference will build upon the strengths of the successful, previous biannual meetings of the National Plant Lipid Cooperative (www.plantlipids.org) that began in 1993, but will reflect a broader scope of topics to include the biochemistry, cell biology, metabolic regulation, and signaling functions of plant acyl lipids. Most importantly, this conference also will serve as a physical focal point for the interaction of the plant lipid research community. Applications to attend this conference will be open to all researchers interested in plant lipids and will provide a venue for the presentation of the latest research results, networking opportunities for young scientists, and a forum for the development and exchange of useful lipid resources and new ideas. By bringing together senior- and junior-level scientists involved in plant lipid metabolism, a broad range of insights will be shared and the community of plant lipid researchers will function more as a network of vested partners. This is important for the vitality of the research community and for the perceived value that will encourage conference attendance into the future.

SUNDAY

- 4:00 pm - 8:00 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 **Fatty Acid Biosynthesis and Interaction with Carbohydrate Metabolism - In memory of Paul K. Stumpf (1919-2007)**
Discussion Leaders: **Basil Nikolau** (Iowa State University) **John Harwood** (University of Cardiff)
7:40 pm - 7:50 pm **Basil Nikolau** (Iowa State University)
"Introductory Remarks"
7:50 pm - 8:10 pm **Eve Wurtele** (Iowa State University)
"Metabolic Networks in Plant Fatty Acid Biosynthesis"
8:10 pm - 8:20 pm Discussion
8:20 pm - 8:40 pm **Sebastien Baud** (Unité de Biologie des Semences, France)
"Seed Regulatory Networks"
8:40 pm - 8:50 pm Discussion
8:50 pm - 9:10 pm **Jorg Schwender** (Brookhaven National Laboratory, Upton, NY)
"Metabolic Flux Analysis"
9:10 pm - 9:20 pm Discussion
9:20 pm - 9:30 pm **John Harwood** (University of Cardiff)
"Closing Remarks"

MONDAY

- 7:30 am - 8:30 am Breakfast
9:00 am - 12:30 pm **Engineering of Triacylglycerols and Fatty Acids for Fuel and Nutrition**
Discussion Leader: **Toni Voelker** (Monsanto Company)
9:00 am - 9:10 am **Toni Voelker** (Monsanto Company)
"Engineering for Fuel and Nutrition: A Persistent Mirage?"

9:10 am - 9:30 am **Ian Graham** (University of York)
 "Triacylglycerol recycling in germinating seeds and accumulation in vegetative tissues"

9:30 am - 9:40 am Discussion

9:40 am - 10:00 am **Craig Behnke** (Sapphire Energy)
 "Micro-algae as a platform for the production of liquid fuels"

10:00 am - 10:10 am Discussion

10:10 am - 10:45 am Coffee Break / Group Photo

10:45 am - 11:05 am **Johnathan Napier** (Rothamsted Research)
 "Polyunsaturated Fatty Acid Biosynthesis"

11:05 am - 11:15 am Discussion

11:15 am - 11:35 am **Christoph Benning** (Michigan State University)
 "Beyond Oilseed Crops: Engineering of Oil Content in Non-Seed Tissues"

11:35 am - 11:45 am Discussion

11:45 am - 11:55 am **Timothy P. Durrett** (Michigan State University)
 "Deep Transcriptional Profiling to Understand Triacylglycerol Production in *Euonymus alatus*"

11:55 am - 12:00 pm Discussion

12:00 pm - 12:10 pm **Jeffrey A. Haas** (Monsanto Company)
 "Characterization of soybeans engineered to produce stearidonic acid"

12:10 pm - 12:15 pm Discussion

12:15 pm - 12:25 pm **Lifang Zhao** (University of British Columbia)
 "Characterization of the role of *Arabidopsis* LACS8 in seed oil biosynthesis"

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

6:00 pm Dinner

7:30 pm - 9:30 pm **Fatty Acid Desaturation and Modification**
 Discussion Leader: **John Dyer** (USDA-ARS)

7:30 pm - 7:40 pm **John Dyer** (USDA-ARS)
 "Opening Remarks"

7:40 pm - 8:00 pm **John Shanklin** (Brookhaven National Laboratory, Upton, NY)
 "Structural Insights into Unusual Fatty Acid Biosynthesis"

8:00 pm - 8:10 pm Discussion

8:10 pm - 8:30 pm **Robert Mullen** (Univ of Guelph, Canada)
 "Trafficking and the post-transcriptional regulation of membrane-bound desaturases"

8:30 pm - 8:40 pm Discussion

8:40 pm - 9:00 pm **Ivo Feussner** (George August Univ, Gottingen, Germany)

- 9:00 pm - 9:10 pm Discussion "Fatty acid modifying enzymes in microalgae and bacteria"
- 9:10 pm - 9:20 pm **Anthony R. Ashton** (Canberra, Australia)
"The high-level modified fatty acid accumulation problem: A contrary view"
- 9:20 pm - 9:25 pm Discussion
- 9:25 am - 9:30 pm **John Dyer** (USDA-ARS)
"Closing Remarks"

TUESDAY

- 7:30 am - 8:30 am Breakfast
- 9:00 am - 12:30 pm **Biosynthesis and Function of Extraplastic Lipids**
Discussion Leader: **Sten Stymne** (Swedish Agricultural University)
- 9:00 am - 9:10 am **Sten Stymne** (Swedish Agricultural University)
"Opening Remarks"
- 9:10 am - 9:30 am **Edgar Cahoon** (Danforth Plant Sciences Center, St. Louis, MO)
"Metabolism and Function of Plant Sphingolipids"
- 9:30 am - 9:40 am Discussion
- 9:40 am - 10:00 am **Ikuo Nishida** (Saitama University, Japan)
"Differential roles of CTP: phosphorylcholine cytidyltransferase isozymes in membrane biogenesis at low temperature and epigenetic homeosis in *Arabidopsis thaliana*"
- 10:00 am - 10:10 am Discussion
- 10:10 am - 10:45 am Coffee Break
- 10:45 am - 11:05 am **Jitao Zou** (Plant Biotechnology Institute, Canada)
"Function of Membrane-Bound O-Acyl Transferase (MBOAT) family proteins in *Arabidopsis*"
- 11:05 am - 11:15 am Discussion
- 11:15 am - 11:35 am **Wendy Boss** (North Carolina State University)
"Synthetic Approaches to Altering Basal Signaling"
- 11:35 am - 11:45 am Discussion
- 11:45 am - 11:55 am **Yasuyo Yamaoka** (Saitama University, Japan)
"The importance of phosphatidylserine biosynthesis in the male gametogenesis in *Arabidopsis thaliana*"
- 11:55 am - 12:00 pm Discussion
- 12:00 pm - 12:10 pm **Chaofu Lu** (Montana State University)
"ROD1 Regulates Phosphatidylcholine Biosynthesis in Developing Seeds of *Arabidopsis*"
- 12:10 pm - 12:15 pm Discussion
- 12:15 pm - 12:25 pm **Julie M. Stone** (University of Nebraska)
"B1-Resistant6 (FBR6) and Accelerated Cell Death5 (ACD5) Genetically Interact in Sphingolipid-Mediated Modulation of *Arabidopsis thaliana* Programmed Cell Death"

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
6:00 pm	Dinner
7:30 pm - 9:30 pm	Chloroplast Lipid Biogenesis
	Discussion Leader: Ernst Heinz (University of Hamburg)
7:30 pm - 7:40 pm	Ernst Heinz (University of Hamburg) "Opening Remarks"
7:40 pm - 8:00 pm	Peter Doermann (Max Planck Institute) "Galactolipid Biosynthesis and Function"
8:00 pm - 8:10 pm	Discussion
8:10 pm - 8:30 pm	Mie Shimojima (Tokyo Institute of Technology) "Sulfolipid biosynthesis"
8:30 pm - 8:40 pm	Discussion
8:40 pm - 9:00 pm	Mats Andersson (University of Gothenburg) "Chloroplast ER interactions"
9:00 pm - 9:10 pm	Discussion
9:10 pm - 9:20 pm	Eric Marechal (CNRS-CEA-INRA, Grenoble, France) "Chemical genetic exploration of galactolipid metabolism using a novel class of MGDG synthase inhibitors, competing with diacylglycerol binding"
9:20 pm - 9:25 pm	Discussion
9:25 am - 9:30 pm	Ernst Heinz (University of Hamburg) "Closing Remarks"

WEDNESDAY

7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	Catabolism / Oxidation of Glycerolipids
	Discussion Leader: Ruth Welti (Kansas State University)
9:00 am - 9:10 am	Ruth Welti (Kansas State University) "Opening Remarks"
9:10 am - 9:30 am	Xuemin Wang (Danforth Plant Sciences Center, University of Missouri, St. Louis) "Phospholipases: Structure and Function"
9:30 am - 9:40 am	Discussion
9:40 am - 10:00 am	Peter Eastmond (University of Warwick) "Lipases and Mobilization of Seed Reserves"
10:00 am - 10:10 am	Discussion
10:10 am - 10:45 am	Coffee Break
10:45 am - 11:05 am	Elizabeth Blee (CNRS - Strasbourg) "Oxylipin Formation and Function"
11:05 am - 11:15 am	Discussion
11:15 am - 11:35	Katayoon Dehesh (University of California, Davis)

am	"The Oxylipin Signature in Fatty Acid-Mediated Signaling"
11:35 am - 11:45 am	Discussion
11:45 am - 11:55 am	Mike V. Kolomiets (Texas A&M University) "Lipoxygenases govern maize-pathogen interactions and contamination of seed with mycotoxins"
11:55 am - 12:00 pm	Discussion
12:00 pm - 12:10 pm	Abraham J.K. Koo (Michigan State University) "Wound-Induced Systemic Synthesis of Bioactive Jasmonates in <i>Arabidopsis</i> "
12:10 pm - 12:15 pm	Discussion
12:15 pm - 12:25 pm	Xiaobo Li (Michigan State University) "Regulation of triacylglycerol biosynthesis and degradation in <i>Chlamydomonas reinhardtii</i> "
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
6:00 pm	Dinner
7:30 pm - 9:30 pm	Surface Lipids
	Discussion Leader: Mike Pollard (Michigan State University)
7:30 pm - 7:40 pm	Mike Pollard (Michigan State University) "Opening Remarks"
7:40 pm - 8:00 pm	Ljerka Kunst (University of British Columbia) "Cuticular wax biosynthesis and secretion"
8:00 pm - 8:10 pm	Discussion
8:10 pm - 8:30 pm	Yonghua Li (CNRS; Bordeaux) "Biosynthesis and function of Cuticular Polyesters"
8:30 pm - 8:40 pm	Discussion
8:40 pm - 9:00 pm	Rochus Franke (University Bonn, Germany) "Suberin biosynthesis and function"
9:00 pm - 9:10 pm	Discussion
9:10 pm - 9:20 pm	Anthony Huang (University of California, Riverside) "Two temporally and mechanistically different transfers of lipids from the floral tapetum to pollen"
9:20 pm - 9:25 pm	Discussion
9:25 am - 9:30 pm	Mike Pollard (Michigan State University) "Closing Remarks"

THURSDAY

7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	Lipid Mediators and Signaling
	Discussion Leader: Glenda Gillaspay (Virginia Tech)
9:00 am - 9:10 am	Glenda Gillaspay (Virginia Tech)

	"Opening Remarks"
9:10 am - 9:30 am	Teun Munnik (University of Amsterdam) "Phosphatidic Acid Signaling"
9:30 am - 9:40 am	Discussion
9:40 am - 10:00 am	Imara Perera (North Carolina State University) Polyphosphoinositide-Based Signaling in Plants"
10:00 am - 10:10 am	Discussion
10:10 am - 10:45 am	Coffee Break
10:45 am - 11:05 am	Jyoti Shah (University of North Texas) "Long Distance Lipid Signaling in Plant Defense"
11:05 am - 11:15 am	Discussion
11:15 am - 11:35 am	John Browse (Washington State University) "JAZ Repressor Proteins Control Jasmonate Signaling"
11:35 am - 11:45 am	Discussion
11:45 am - 11:55 am	Mary Beth Mudgett (Stanford University) "Bacterial virulence factor AvrBsT alters phospholipid lipid signaling in <i>Arabidopsis</i> <i>sober1-1</i> leaves resulting in disease resistance"
11:55 am - 12:00 pm	Discussion
12:00 pm - 12:10 pm	Ingo Heilmann (Göttingen University, Germany) "Salt-stress-induced association of phosphatidylinositol-4,5-bisphosphate with clathrin-coated vesicles in plants"
12:10 pm - 12:15 pm	Discussion
12:15 pm - 12:25 pm	Joop Vermeer (University of Amsterdam) "Emerging roles of phosphoinositides in membrane trafficking and the osmotic stress response"
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
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	Cellular Integration of Lipid Metabolism Discussion Leader: Anna Stina Sandelius (University of Gothenburg)
7:30 pm - 7:40 pm	Anna Stina Sandelius (University of Gothenburg) "Opening Remarks"
7:40 pm - 8:00 pm	Changcheng Xu (Michigan State University) "Two Pathway Hypothesis and Lipid Transfer between the ER and Plastid"

8:00 pm - 8:10 pm Discussion

8:10 pm - 8:20 pm **Binbin Lu** (Michigan State University)
"TGD2 Possesses Distinct Binding Sites for Phosphatidic Acid"

8:20 pm - 8:25 pm Discussion

8:25 pm - 8:45 pm **Hiroyuki Ohta** (Tokyo Institute of Technology)
"Lipid Turnover during Phosphate Stress"

8:45 pm - 8:55 pm Discussion

8:55 pm - 9:15 pm **Dominique Roby** (INRA/CNRS, Toulouse)
"Very Long Chain Fatty Acid Biosynthesis and the Activation of Programmed Cell Death"

9:15 pm - 9:25 pm Discussion

9:25 am - 9:30 pm **Anna Stina Sandelius** (University of Gothenburg)
"Closing Remarks"

FRIDAY

7:30 am - 8:30 am Breakfast

9:00 am Depart

Residence

North America	62.1%
South America	2.4%
Europe	25.8%
Africa	0.0%
Asia	8.1%
Australia/Oceania	1.6%