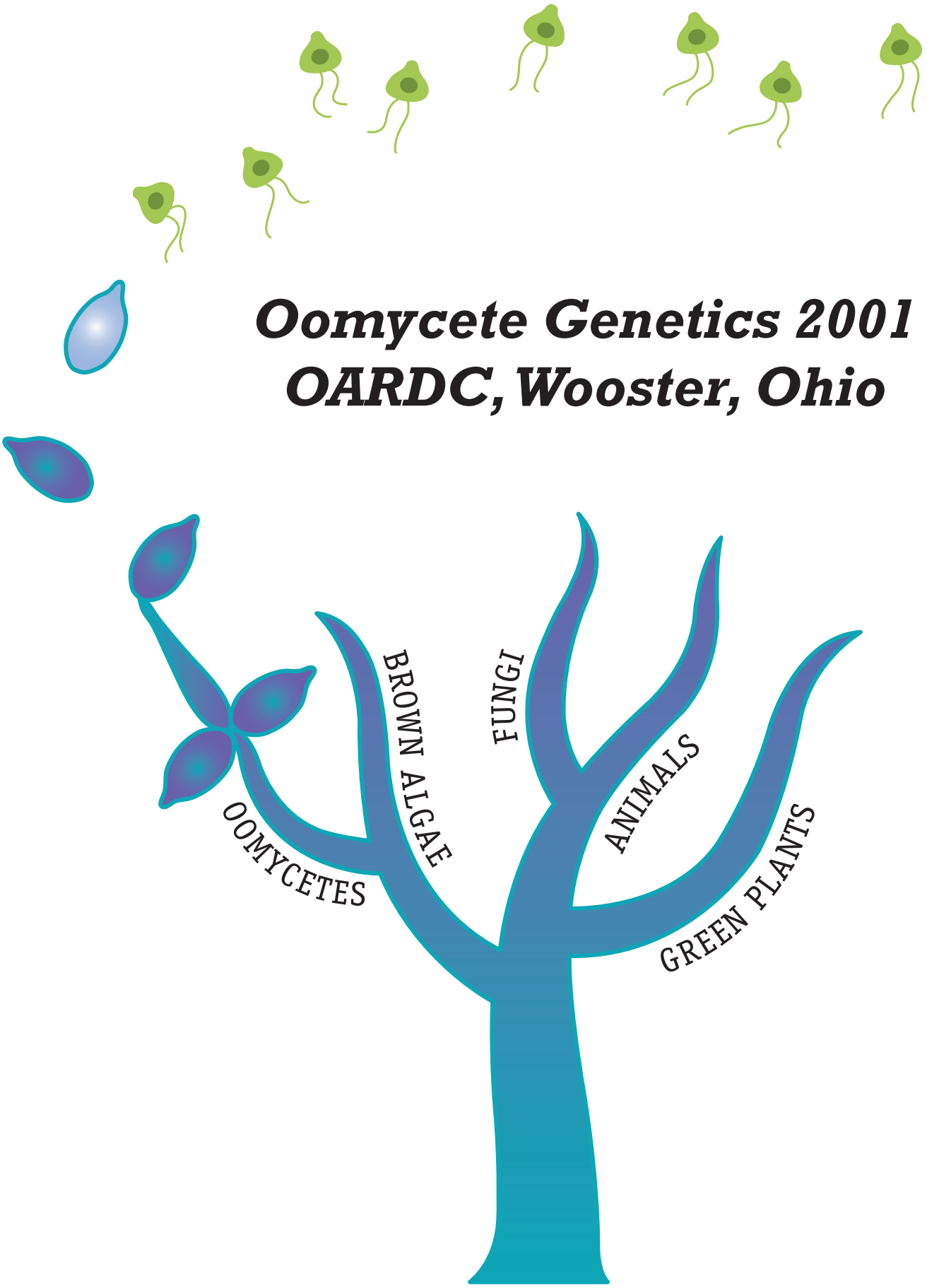
Oomycete Genetics 2001
OARDC, Wooster, Ohio



Oomycete Genetics 2001

(including Meeting of the Molecular Linkage Group of the Global Initiative on Late Blight)

***

16-17 July, 2001
Fisher Auditorium
Ohio Agricultural Research and Development Center, Wooster, Ohio

Program

Sunday 15 July 2001

PM Arrival, check-in at Best Western

Monday 16 July 2001

8:30 Breakfast

9:00 Opening remarks

Session 1: Resistance
Moderator: Chris Smart

9:05 Vivianne Vleeshouwers, Wageningen Agricultural University, The Netherlands
Identification of novel and durable resistance genes to *Phytophthora infestans* in *Solanum*

9:25 Edgar Huitema, The Ohio State University-OARDC Wooster
Nonhost resistance of *Arabidopsis* to *Phytophthora*

9:40 Walid Hamada, The Ohio State University-OARDC Wooster
Nonhost interactions between *Nicotiana* and *Phytophthora infestans*: towards the characterization of novel resistance genes

9:55 Coffee break

Session 2: Virulence and avirulence I
Moderator: Thorsten Nuernberger

10:10 Paul Birch,Scottish Crop Research Institute, Dundee, Scotland
Virulence and avirulence in *Phytophthora infestans*

10:30 Pieter van West, The University of Aberdeen, Scotland
Current status of oomycete research in Aberdeen

10:50 Jim Beynon, Horticulture Research International, Wellesbourne, Warwick, UK
Using SSH to identify genes specifically expressed during invasion of *Arabidopsis* by *Peronospora* parasitica

11:10 Laura Grenville, Horticulture Research International, Wellesbourne, Warwick
Mapping the ATR8 and ATR13 avirulence loci in *Peronospora parsitica*

11:30 Francine Govers, Wageningen Agricultural University, The Netherlands
Clustering of elicitin genes in *Phytophthora infestans*

11:50 Elodie Gaulin, Université Paul Sabatier, Castanet Tolosan, France
CBEL, a cell wall glycoprotein from the tobacco pathogen *Phytophthora parasitica nicotianae*

12:10 Lunch

Session 3: Virulence and avirulence II
Moderator: Martina Rickauer

1:20 Mark Gijzen, Agriculture Canada, London, Ontario
Genetic and physical mapping of *Avr1a* in *Phytophthora sojae*

1:40 Brett Tyler, University of California, Davis
Cloning and Characterization of Avirulence Genes from *Phytophthora sojae*

2:00 Dinah Qutob, Agriculture Canada, London, Ontario
Characterization of a *Phytophthora sojae* necrosis-inducing peptide

2:20 Thorsten Nuernberger, Institut fuer Pflanzenbiochemie, Halle/Saale, Germany
Plant defense-inducing peptides from *Phytophthora species*

2:40 Paul Morris, Bowling Green State University, Ohio
Expression analysis of an ABC transporter from *Phytophthora sojae* in zoospores hyphae and infected tissues

3:00 Marcus Chibucos, Bowling Green State University, Ohio
Polyamine excretion by roots and their uptake by *Phytophthora sojae* zoospores

3:20 Departure to Mohican Lodge, outdoor activities and dinner

Tuesday 17 July 2001

8:30 Breakfast

Session 4: Functional genomics
Moderator: Jim Beynon

9:00 Chris Smart, Cornell University, Ithaca, New York
DNA microarray analysis of potato-*Phytophthora infestans* interactions

9:20 Trudy Torto, The Ohio State University-OARDC, Wooster
Functional genomics of *Phytophthora* extracellular proteins (PEX)

9:40 Shuang Li, The University of Aberdeen, Scotland
Proteomics of *Phytophthora infestans*

10:00 Venkat Gopalan, The Ohio State University, Columbus
RNase P-mediated disruption of gene expression as a functional genomics tool

10:20 Coffee break

Session 5: Genomics: present and future
Moderator: Paul Birch

10:40 Brett Tyler, University of California, Davis
Update on the *Phytophthora* Genome Project

11:00 Sophien Kamoun, The Ohio State University-OARDC, Wooster
Oomycete genomics: What's next?

11:20 Discussion / closing comments

12:20 Lunch/Departure

Thanks to our sponsors:

The Ohio State University
Ohio Agricultural Research and Development Center
Global Initiative on Late Blight, International Potato Center (CIP)

Oomycete Genetics 2001: list of participants

Full Name	Affiliation	Title of Talk or Research Interests	speaker?
Anna Avrova	Scottish Crop Research Institute, Dundee, Scotland	P. Birch group	☐ Yes ☒ No
Jim Beynon	Horticulture Research International, Wellesbourne,	Using SSH to identify genes specifically expressed during invasion of Arabidopsis by Peronospora parasitica	☒ Yes ☐ No
Paul Birch	Scottish Crop Research Institute, Dundee, Scotland	Virulence and avirulence in Phytophthora infestans	☒ Yes ☐ No
Kara Burnham	The Ohio State University-OARDC Wooster,	Resistance to P. sojae	☐ Yes ☒ No
Marcus Chibucos	Bowling Green State University	Polyamine excretion by roots and their uptake by P. sojae zoospores	☒ Yes ☐ No
Amal deSilva	The Ohio State University-OARDC Wooster,	P. sojae population genetics	☐ Yes ☒ No
Judith Fliegmann	Botanisches Institut der LMU, Munich, Germany	J. Ebel group	☐ Yes ☒ No
Elodie Gaulin	Université Paul Sabatier, Castanet Tolosan, France	CBEL, a cell wall glycoprotein from the tobacco pathogen Phytophthora parasitica nicotianae	☒ Yes ☐ No
Mark Gijzen	Agriculture Canada, London, Ontario	Genetic and physical mapping of Avr1a in Phytophthora sojae	☒ Yes ☐ No
Venkat Gopalan	The Ohio State University, Colombus, Ohio	RNase P-mediated disruption of gene expression as a functional genomics tool	☒ Yes ☐ No
Francine Govers	Wageningen Agricultural University, The Netherlands	Clustering of elicitin genes in Phytophthora infestans	☒ Yes ☐ No
Laura Grenville	Horticulture Research International, Wellesbourne,	Mapping the ATR8 and ATR13 avirulence loci in Peronospora parsitica	☒ Yes ☐ No
Walid Hamada	The Ohio State University-OARDC Wooster,	Non-host interactions between Nicotiana and Phytophthora infestans: towards the characterization of novel Resistance genes	☒ Yes ☐ No
Edgar Huitema	The Ohio State University-OARDC Wooster,	Nonhost resistance of *Arabidopsis* to *Phytophthora*	☒ Yes ☐ No
Sophien Kamoun	The Ohio State University-OARDC Wooster,	Oomycete genomics	☐ Yes ☒ No
Angela LaLumia	The College of Wooster, Wooster, Ohio	Oomycete phylogeny	☐ Yes ☒ No
Shuang Li	The University of Aberdeen, Scotland	Proteomics of Phytophthora infestans	☒ Yes ☐ No
Hilary Mayton	Cornell University, Ithaca, New York	P. infestans Cornell group	☐ Yes ☒ No
Adele McLeod	Cornell University, Ithaca, New York	P. infestans glucanase genes	☐ Yes ☒ No
Bill Morgan	The College of Wooster, Wooster, Ohio	Phytophthora mariner-like lements and Oomycete phylogeny	☐ Yes ☒ No
Paul Morris	Bowling Green State University	Expression analysis of an ABC transporter from P. sojae in zoospores hyphae and infected tissues	☒ Yes ☐ No
Thorsten Nuernberger	Institut fuer Pflanzenbiochemie,	Plant defense-inducing peptides from Phytophthora species	☒ Yes ☐ No
Dileep K. Pulukkunat	The Ohio State University, Colombus, Ohio	V. Gopalan group (RNase P)	☐ Yes ☒ No

Oomycete Genetics 2001: list of participants

Full Name	Affiliation	Title of Talk or Research Interests	speaker?
Dinah Qutob	Agriculture Canada, London, Ontario	Characterization of a Phytophthora sojae necrosis-inducing peptide	☒ Yes ☐ No
M L Stephen Raj	The Ohio State University, Colombus, Ohio	V. Gopalan group (RNase P)	☐ Yes ☒ No
Margot Rathbone	Cornell University, Ithaca, New York	P. infestans Cornell group	☐ Yes ☒ No
Martina Rickauer	Université Paul Sabatier, Castanet Tolosan, France	CBEL glycoprotein elicitor	☐ Yes ☒ No
Chris Smart	Cornell University, Ithaca, New York	DNA microarray analysis of potato-Phytophthora infestans interactions	☒ Yes ☐ No
Antonino Testa	The Ohio State University-OARDC Wooster,	P. infestans necrosis inducing elicitors	☐ Yes ☒ No
Trudy Torto	The Ohio State University-OARDC Wooster,	Molecular characterization of Phytophthora extracellular proteins (PEXs)	☒ Yes ☐ No
Brett Merrick Tyler	University of California, Davis	Cloning and Characterization of Avirulence Genes from Phytophthora sojae	☒ Yes ☐ No
Pieter van West	The University of Aberdeen, Scotland	Current status of oomycete research in Aberdeen	☒ Yes ☐ No
Miguel Vega-Sanchez	The Ohio State University-OARDC Wooster,	Resistance to P. sojae	☐ Yes ☒ No
Vivianne Vleeshouwers	Wageningen Agricultural University, The Netherlands	Identification of novel and durable resistance genes to Phytophthora infestans in Solanum	☒ Yes ☐ No
Einat Yatzkan	Syngenta	Phytophthora genomics	☐ Yes ☒ No
Anita Zhao	Bowling Green State University	P. Morris group	☐ Yes ☒ No