

Workshop Programme

5th International Workshop on Grapevine Downy and Powdery Mildew San Michele all'Adige, Trentino, Italy, 18-23 June 2006

Date	Time	Authors/Activities	Title
17-Jun	Afternoon	Participants arrival in Trento	
	18:00-21:00	Hotel Accademia, Trento	Registration and distribution of meeting materials
	20:00-21:00	Hotel Accademia, Trento	Welcome party
18-Jun	8:15	Transfer from Trento (Piazza Dante) to San Michele	
	8:30-9:00	Aula Magna, Istituto Agrario di San Michele a/A	Registration and distribution of meeting materials
	9:00-9:15	Roberto Viola, Head of the IASMA Research Center, Istituto Agrario San Michele all'Adige	Opening session
	9:15-9:30	Cesare Gessler, Head of the SafeCrop Centre, Istituto Agrario San Michele all'Adige	Opening session
	Oral Session 1	Chairperson: Robert Seem	Host resistance, induced resistance, mechanisms, breeding
	9:30-10:00	Hanns-Heinz Kassemeyer, Tobias Seibicke, Sabine Unger	Host-Pathogen-Interactions and resistance responses of different <i>Vitis</i> genotypes after infection by <i>Plasmopara viticola</i>
	10:00-10:30	Alberto Madini, Flavia M. Moreira, Rosanna Marino, Luca Zulini, Hanns-Heinz Kassemeyer, Pal Kozma, Riccardo Velasco, Marco Stefanini, M. Stella Grando	Candidate genes mapping and comparative QTL analysis for powdery and downy mildew resistance in grape
	10:30-11:00	Caterina L. Matasci, Mauro Jermini, Davide Gobbin, Natasha Rosselli, Cesare Gessler	Influence of cultivar mixtures on grapevine Downy mildew epidemic
	11:00-11:30	Ilaria Pertot, Silvia Dagostin, Rita Musetti, Davide Gobbin	Activity of the grapevine endophyte <i>Alternaria alternata</i> on infection, colonization and sporulation of <i>Plasmopara viticola</i> in relation to application time
	11:30-12:00	Annalisa Polverari, Marianna Polesani, Filomena Desario, Jessica Knörzer, Nicole Regier, Andreas Kortekamp	Identification of differentially expressed genes in grape following infection with <i>Plasmopara viticola</i>
	12:00-13:30	Lunch in the IASMA canteen	
	Poster session 3	IASMA, School west wing	Host resistance, induced resistance, mechanisms, breeding - Biology of the two pathogens, climate interactions and disease expression
	13:30-14:30	Godard Sophie, Katia Gindro, Olivier Viret	Peroxidases activity in susceptible and resistant grapevine after inoculation with <i>Plasmopara viticola</i>
	13:30-14:30	Pere Mestre, Didier Merdinoglu	Analysis of the expression of defense-associated genes in grapevine leaves upon infection by <i>Plasmopara viticola</i>
	13:30-14:30	Anne Poutaraud, Sabine Wiedemann-Merdinoglu, Pascale Coste, Didier Merdinoglu	Analysis of stilbene content in leaf discs of grapevine upon inoculation with <i>Plasmopara viticola</i>
	13:30-14:30	Sabine Wiedemann-Merdinoglu, Pascale Coste, Rudolf Eibach, Didier Merdinoglu	Comparison of laboratory and vineyard evaluation of grapevine downy mildew resistance in a population derived from a cross between two partially resistant parents
13:30-14:30	Annemiek C. Schilder, Brian L. Lehman, James A. Flore	Effects of Downy Mildew on Photosynthetic Parameters in 'Niagara' Grape Leaves	

13:30-14:30	Silvia L. Toffolatti, Marisol Prandato, Antonella Vavassori, Annamaria Vercesi	Germination dynamics of <i>Plasmopara viticola</i> oospores and occurrence of primary infections in Veneto
13:30-14:30	John D. I. Harper, Sandra Savocchia, Belinda Schirmer, Adrienne R. Hardham, Chris C. Steel, Gavin J. Ash	Immunofluorescence Microscopy of the Cytoskeleton and Associated Components in Zoospores of <i>Plasmopara viticola</i>
13:30-14:30	Dietrich Stephan, Isabella Linda Bisutti, Katja Hirt	Fermentation and formulation of <i>Pseudomonas fluorescens</i> strain CHA0 and Pf 153 and their influence on the control of Botrytis cinerea
Oral Session 1	Chairperson: Robert Seem	Host resistance, induced resistance, mechanisms, breeding
14:30-15:00	Sabine Wiedemann-Merdinoglu, Emilce Prado, Christophe Schneider, Pascale Coste, Christine Onimus, Vincent Dumas, Gisèle Butterlin, Alain Bouquet, Didier Merdinoglu	Resistance to downy mildew derived from <i>Muscadinia rotundifolia</i> : genetic analysis and use of molecular markers for breeding
15:00-15:30	Silvia Dagostin, Antonella Vecchione, Luca Zulini, Alessandro Ferrari and Ilaria Pertot	Efficacy evaluation of the resistance inducer Benzothiadiazole against grapevine downy mildew
Oral Session 2	Chairperson: Hanns-Heinz Kassemeyer	Biology of the two pathogens, climate interactions and disease expression
15:30-16:00	Tito Caffi, Vittorio Rossi	Water availability in the leaf litter and germination of <i>Plasmopara viticola</i> oospores
16:00-16:30	Coffee break	
16:30-17:00	Shmuel Ovadia, Dani Shtienberg, Amos Dinour, Abraham Sztejnberg	Do flag shoots serve as the main source of primary inoculum in grape powdery mildew epidemics in Israel?
17:00-17:30	Daniele Prodorutti, Luca Zulini, Antonella Vecchione, Silvia Dagostin, Ilaria Pertot	Germination delay under controlled conditions of overwintered oospores of <i>Plasmopara viticola</i> in Trentino Region (Northern Italy)
17:30-18:00	Craig N. Austin, Alan N. Lakso, Robert C. Seem, Duane G. Riegel, David M. Gadoury, Wayne F. Wilcox	Influence of Sun Exposure on Powdery Mildew Development
18:15	Transfer from San Michele to Trento (Piazza Dante)	
	Dinner in Trento	Charged on participants - not in the program
19-Jun	8:15	Transfer from Trento (Piazza Dante) to San Michele
Oral Session 4	Chairperson: David Gadoury	Genetic of the pathogens: population genetics, virulence-avirulence, variability and fungicide resistance
9:00-9:30	François Delmotte, Fabian Martinez, Alice Némorin, Cyril Dutech, Wei-Jen Chen, Sylvie Richart-Cervera, Marie-France Corio-Costet	Spatial genetic structure of grapevine downy mildew epidemic
9:30-10:00	Felix Hug, Davide Gobbin, Cesare Gessler, Peter A. Magarey	Genetic structure and epidemiology of <i>Plasmopara viticola</i> populations from Australian grape growing regions
10:00-10:30	Walter K. Kast	Genotype fitness and fungicide resistance of <i>Plasmopara viticola</i>
10:30-11:00	Andreas Kortekamp, Jessica Knörzer, Nicole Regier, Marianna Polesani, Annalisa Polverari	Something new about <i>Plasmopara viticola</i> ? A microscopy and molecular biology-based contribution to its general biology and its effect on grapevine
11:00-11:30	Coffee break	
11:30-12:00	Davide Gobbin, Artemis Rumbou, Ilaria Pertot, Cesare Gessler	First approach of <i>Plasmopara viticola</i> population biology: merging epidemiology and population genetics
12:00-12:30	Luisa Palmieri, Silvia Dagostin, Alessandro Ferrari, Cesare Gessler	Assessment of <i>Plasmopara viticola</i> oospores germination by gene expression detection of a putative Puf Family member
12:30-13:00	Cesare Gessler, Ilaria Pertot, Davide Gobbin	Genetic structure and epidemiology of <i>Plasmopara viticola</i> populations
13:00-14:30	Lunch in the IASMA canteen	

Poster session 6	IASMA, School west wing	Genetic of the pathogens: population genetics, virulence-avirulence, variability and fungicide resistance
14:30-15:30	François Delmotte, Wei-Jen Chen, Sylvie Richard-Cervera, Lisette Douence, Xavier Giresse, Marie-France Corio-Costet	From molecular evolution to population genetics of strobilurin resistance in grapevine downy mildew populations
14:30-15:30	Trevor Koopman, Celeste C. Linde, Paul Fourie, Adèle McLeod	The Role of Oosporic Infection in the Epidemiology of Downy Mildew in South Africa
14:30-15:30	Annemiek C. Schilder, Brian L. Lehman, Stephen A. Jordan, Mursel Catal	Pathogenic and genetic variation among <i>Plasmopara viticola</i> isolates from different hosts
14:30-15:30	Vito Simeone, Antonio Guarino, Hamid El Bilali, Gianluigi Cesari	Trials testing the efficacy of alternative strategies for the control of powdery and downy mildews in organic vineyards on seven varieties in the Mediterranean environment
14:30-15:30	Marina Collina, Lucia Landi, Maria Barbara Branzanti, Agostino Brunelli	Sensitivity of <i>Plasmopara viticola</i> Italian populations to QoI fungicides
14:30-15:30	Dario Angeli, Claudia Longa, Alessandro Ferrari, Loris Maines, Yigal Elad, Vito Simeone, Haya Abou Assaf, Ilaria Pertot	Efficacy evaluation of new control agents against grapevine powdery mildew under greenhouse conditions
14:30-15:30	Ana Maria Diez-Navajas, Charles Greif, Didier Merdinoglu	Observation of <i>Plasmopara viticola</i> development in grapevine leaves by microscopy and real-time PCR
14:30-15:30	Silvia Dagostin, Davide Gobbin, Ilaria Pertot	Screening of new potential biocontrol agents against <i>Plasmopara viticola</i> using highthroughput method based on quantitative PCR
14:30-15:30	Santella Burruano, Gaetano Conigliaro, Sandra Lo Piccolo, Antonio Alfonso, Livio Torta	<i>Plasmopara viticola</i> : three decades of observation in Sicily
Oral Session 5	Chairperson: Yigal Elad	Biological control and agronomical practices
15:30-16:00	Ilaria Pertot, Cesare Gessler	Potential use and major constrains in grapevine powdery and downy mildew biocontrol
16:00-16:30	Dario Angeli, Enzo Mescalchin, Erika di Marino, Loris Maines	Grapevine powdery mildew and the mycoparasite <i>Ampelomyces quisqualis</i> in Trentino vineyards (Northern Italy)
16:30-17:00	Moshe Reuveni, Dani Neifeld, Gregori Pipko, Bili Malka, Tirtza Zahavi	Timorex – A novel tea tree-based organic formulation developed for the control of grape powdery and downy mildews
17:00-18:00	IASMA Winery staff	Visit of the IASMA winery: the beauty of the old monastery accompanied by a professional wine testing
18:30	Transfer from San Michele to Faedo	
19:30-23:00	Dinner in the Ristorante Monreal, Faedo	
23:00	Transfer from Faedo to Trento (Piazza Dante)	
20-Jun		
8:15	Transfer from Trento (Piazza Dante) to Rovereto	
9:00-10:00	Navicello experimental farm, Rovereto	IASMA Experimental farm: alternative to copper in downy mildew control
10:00-12:00	"Azienda vinicola Bossi Fedrigotti", Rovereto	Visit of the private winery "Azienda vinicola conti Bossi Fedrigotti". Topics of the visit are disease and marketing management in private winery. Special focus will be given to new technologies for the grape disease management
12:00-13:00	Lunch in the Bossi Fedrigotti winery	
14:00-17:00	Cavit winery, Trento	Visit and presentation of CAVIT winery, with technical visit of the new and old cellar facilities
18:00	Transfer from Trento to Maso Torresella, Toblino lake	

	19:00-23:00	Villa Santa Maria del Lago, Toblino lake, Valle del Sarca	Buffet-Dinner in Maso Torresella, the enchanting promotional site of Cavit
	23:00	Transfer from Toblino lake to Trento (Piazza Dante)	
21-Jun	8:15	Transfer from Trento (Piazza Dante) to Mezzacorona	
	8:45-9:00	Palarotari, Mezzacorona winery	The workshop will be hosted in the Palarotari auditorium of the Mezzacorona winery, equipped with the most advanced audio/video technologies. The spacious and cozy foyer will host our coffee-breaks and lunch. Winery presentation
Oral Session 7 a		Chairperson: Cesare Gessler	Epidemiology, Disease forecasting models, Decision support system, Disease risk assessment
	9:00-09:30	Rossi Vittorio, Bugiani Riccardo, Caffi Tito, Giosuè Simona	Dynamic simulation of grape downy mildew primary infections
	10:00-10:30	Tito Caffi, Vittorio Rossi, Bugiani Riccardo, Spanna Federico, Flamini Lucio, Cossu Antonello, Nigro Camilla	Validation of a simulation model for <i>Plasmopara viticola</i> primary infections in different vine-growing areas across Italy
	10:30-11:00	Anna Dalla Marta, Simone Orlandini, Luca Martinelli, Roger D. Magarey	Modelling leaf wetness duration for downy mildew simulation
	11:00-11:30	Coffee break	
	11:30-12:00	Megan M. Kennelly, David M. Gadoury, Robert C. Seem, Wayne Wilcox, Peter Magarey	Recent Investigations of the Biology of <i>Plasmopara viticola</i> : Considerations for Forecasting and Management of Grapevine Downy Mildew
	12:00-12:30	Walter K. Kast	Statistical Relations between Monthly Means of Temperature and the Sum of Rainfall on Powdery and Downy Mildew
	12:30-13:00	Sven Keil, Henning Immink, Hanns-Heinz Kassemeyer	Effect of temperature and leaf-wetness-duration on the infection severity of the grapevine downy mildew <i>Plasmopara viticola</i> (Berk. et Curtis ex. de Bary) Berl. et de Toni
	13:00-14:00	Lunch in the MezzaCorona canteen	
Oral Session 7 b		Chairperson: Peter Magarey	Epidemiology, Disease forecasting models, Decision support system, Disease risk assessment
	14:00-14:30	Forrest W. Nutter, Jr.	Linear vs. Logarithmic Disease Assessment Scales: The Repeal of the Weber-Fechner Law
	14:30-15:00	Marc Raynal, Christian Debord, Marc Vergnes, Thierry Coulon	Epicure, a geographic information system applied on downy and powdery mildew risks of epidemics on the bordeaux vineyard
	15:00-15:30	Agnès Calonnec, Philippe Cartolaro, Jean-Marc Naulin, Michel Langlais, Jean-Baptiste Burie, Jean Roman, Gaël Tessier	A powdery mildew/grapevine simulation model for the understanding and management of epidemics
	15:30-16:00	Coffee break	
	16:00-16:30	Beate Berkelmann-Loehnertz, Bernd Loskill, Cathleen Fruehauf, Klaus-Uwe Gollmer, Markus Forster, Anja Kuczera, Harald Braden, Peter Wittich	Downy mildew forecast regarding primary and further soil borne infections based on a splash algorithm and a microclimate model
Oral Session 8		Chairperson: Vittorio Rossi	Economical and technological aspects of disease management
	16:30-17:00	Wendy McFadden-Smith, Gary J. Pickering	Juice Composition and Yield from Ontario <i>Vitis vinifera</i> , cultivar Chardonnay Grapes are moderated by severity of powdery mildew infection
	17:00-17:30	Belinda E. Stummer, Robert G. Damberg, I. Leigh Francis, Timothy Zanker, Eileen S. Scott	Detection of Powdery Mildew in Grapes using a DNA Assay and Near Infrared Reflectance Spectroscopy, and Assessment of Chardonnay Wine Quality
	17:30-18:30	Rotari building	Visit of Rotari and Mezzacorona winery
	18:30	Transfer from Mezzacorona to Faedo	
	19:00-23:00	Dinner in Ristorante Monreal, Faedo	
	23:00	Transfer from Faedo to Trento (Piazza Dante)	

22-Jun	8:15	Transfer from Trento (Piazza Dante) to Cembra	
	09:00-11:30	Lavis and Valle di Cembra winery, Cembra	Walking tour (1 hour track, comfortable shoes suggested) in the typical wine cellars of Valle di Cembra and wine tasting in the Lavis and Valle di Cembra winery in Cembra
	11:30-12:30	Transfer from Cembra to San Michele	
	12:30-13:30	Lunch in the IASMA canteen	
	Poster session 10	IASMA, School west wing	Epidemiology, Disease forecasting models, Decision support system, Disease risk assessment - Synthetic and natural fungicides
	13:30-14:30	Philippe Cartolaro, Laurent Delière, Greg Kemmitt, Elizabeth Green	Evaluation of fungicide strategies designed to reduce the number of treatments against Grapevine Powdery Mildew
	13:30-14:30	Guido Spera, Anna La Torre, Luigi Campoli, Riccardo Bugliosi, Massimo Scaglione	Development of non linear forecasting model of <i>Plasmopara viticola</i> infections using Artificial Neural Networks
	13:30-14:30	David M. Gadoury, Robert C. Seem, Wayne F. Wilcox, Megan M. Kennelly, Peter A. Magarey, Ian B. Dry, Doug Gubler, Jay W. Pscheidt, Gary Grove, Turner B. Sutton, Michael A. Ellis, Katherine L. Stevenson, Michael Maixner, Katherine J. Evans	Modeling and Mapping the Relationship Between Climate and Ontogenic Resistance to the Major Fungal Diseases of Grapevine
	13:30-14:30	Alessandro Ferrari, Silvia Dagostin, Ilaria Pertot	Potentials and drawbacks of grapevine downy mildew control with Tecnobio®, a product based on fatty acids
	13:30-14:30	Rita Musetti, Stefano Borselli, Rachele Polizotto, Antonella Vecchione, Luca Zulini, Ilaria Pertot	Dipeptides secreted by the grapevine endophyte <i>Alternaria alternata</i> cause structural damages to <i>Plasmopara viticola</i>
	13:30-14:30	Wayne F. Wilcox, Judith A. Burr	Physical Modes of Action of Phosphites in Control of Grapevine Downy Mildew
	13:30-14:30	Hugh D Armstrong, Jodie M Armstrong	Interpretation of correct fungicide dose in commercial vineyards: a global review
	Oral Session 9	Chairperson: Leonoardo Bacci	Synthetic and natural fungicides
	14:30-15:00	Wendy McFadden-Smith	Systemic Activity of Phosphorous Acid against Grapevine Downy Mildew
	15:00-15:30	Opher Mendelsohn, Yigal Elad, Dalia R. David, Dani Shtienberg, Shmuel Ovadia	Biological control of powdery mildew – controlled conditions and field experience
	15:30-16:00	Carmen Schweikert, H. Heinz Kassemeyer	Systems for testing the efficacy of biofungicides and resistance inducers against grapevine downy mildew (REPCO project)
	16:00-16:30	Alessandro Ferrari, Ilaria Pertot, Silvia Dagostin, Dario Angeli	Efficacy of KBV 99-01 against <i>Erysiphe necator</i> and <i>Plasmopara viticola</i>
	16:30-16:45	Coffee break	
	16:45-17:15	Ilaria Pertot, Dario Angeli, Alessandro Ferrari, Silvia Dagostin, Cesare Gessler	Efficacy of electrolysed acid water against <i>Plasmopara viticola</i> and <i>Erysiphe necator</i>
	17:15-17:45	Wayne F. Wilcox, David M. Gadoury, Judith N. Burr, Robert C. Seem, Duane G. Riegel	Properties of Sulfur in Control of Grapevine Powdery Mildew
17:45-18:30	Transfer from San Michele to Lavis		
18:30-19:30	Lavis and Valle di Cembra winery, Lavis	Visit and presentation of LaVis and Valle di Cembra winery	
19:30-23:00	Lavis and Valle di Cembra winery, Lavis	Gala dinner in the old winery of the Lavis and Valle di Cembra winery in Lavis	
23:00	Transfer from Lavis to Trento (Piazza Dante)		

23-Jun	8:15	Transfer from Trento (Bus from Piazza Dante) to San Michele	
	Oral Session 11 a	Chairperson: Ilaria Pertot	Disease management (organic and IPM)
	9:00-9:30	Katherine J. Evans, Peter Crisp, Eileen S. Scott	Applying Spatial Information in a Whole-of-block Experiment to Evaluate Spray Programs for Powdery Mildew in Organic Viticulture

9:30-10:00	Dario Angeli, Loris Maines, Vito Simeone, Levent Yildiz, Ilaria Pertot	Efficacy evaluation of integrated strategies for powdery and downy mildew control in organic viticulture
10:00-10:30	Robert W. Emmett, Kathleen Clarke, Terry J. Hunt, Peter A. Magarey, Natasha Learhinan	Grapevine bud infection by powdery mildew (<i>Erysiphe necator</i>): Varietal susceptibility and the evaluation of fungicide treatments to reduce flag shoot development
10:30-11:00	Coffee break	
11:00-11:30	Mauro Jermini, Danilo Christen, Reto Strasser, Cesare Gessler	Impact of four years application of the Minimal Fungicide Strategy for downy mildew control on the plant recovering capacities of <i>Vitis vinifera</i> cv Merlot
11:30-12:00	Peter A. Magarey, Justin R. Dixon, Cameron Hills, James Hook, Richard McGeachy, Robert W. Emmett	CropWatchOnline.com: A Website for Growers and Researchers to Improve Vineyard Management of Grapevine Downy and Powdery Mildew
12:00-12:30	Peter A Magarey, Sally A Thiele, Karina L Tschirpig, Justin R Dixon, Michael A Major	Disease Diagnosis: A Website for Swift Identification of Grapevine Downy and Powdery Mildew and Other Diseases and Pests from the Tractor-Seat!
12:30-14:00	Lunch in the IASMA canteen	
Poster session 12	IASMA, School west wing	Disease management (organic and IPM)
14:00-14:30	Sandra Savocchia, Roger Mandel, Peter Crisp, Eileen S. Scott	Organic Control of Grapevine Powdery Mildew in Eastern Australia
14:00-14:30	Dagmar Heibertshausen, Ottmar Baus-Reichel, Uwe Hofmann, Beate Berkelmann-Loehnertz	Copper reduction, a successful approach to control downy mildew in organic viticulture
14:00-14:30	Peter Crisp, Eileen S. Scott, Trevor J. Wicks	Evaluation of Novel Controls of Grapevine Downy Mildew, <i>Plasmopara viticola</i>
Oral Session 11 b	Chairperson: Marc Raynal	Disease management (organic and IPM)
14:30-15:00	Mark Miles, Gregory Kemmitt, Pablo Valverde, Leonardo Bacci	Results from Two Years of Field Studies to Determine Mancozeb-based Spray Programmes with Minimal Impact on Predatory Mites in European Vine Cultivation
15:00-15:30	Alice K. Palmer, Katherine J. Evans, Dean A. Metcalf	Aerated compost extract: standardising a new approach for integrated management of powdery mildew
15:30-16:00	Peter Crisp, Eileen S. Scott, Trevor J. Wicks, Paul Grbin	Novel Control of Grapevine Powdery Mildew on a Commercial Vineyard in South Australia: Effects on Disease and Quality
16:00-16:30	Coffee break	
Chairperson	Cesare Gessler	
16:30-18:00	Workshop business meeting	
18:00	Transfer from San Michele to Trento (Piazza Dante)	
	Dinner in Trento	Charged on participants - not in the program
24-Jun	Morning	Departure of the participants to Verona airport