

7th International Symposium
on
Grapevine Physiology and Biotechnology

PROGRAM

June 21-25, 2004
University of California, Davis
Davis, CA

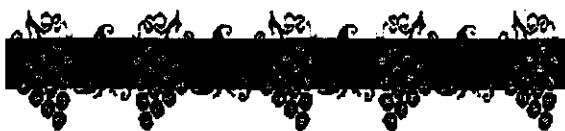
DEPT. OF
VITICULTURE
& ENOLOGY
UNIVERSITY OF
CALIFORNIA, DAVIS



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SCIENCE



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ACKNOWLEDGEMENTS

I would like to thank Drs. Mark Thomas, Violeta Colova-Tsolova and Hans Schultz for their assistance in organizing the following special sessions: the International Grape Genome Program, Grape Transformation and Climate Change and Viticulture, respectively. I would like to thank Dr. Ben-Ami Bravdo for advice and assistance in organizing this symposium. I appreciate the help of Ms. Alma Contreras for her assistance in taking care of arrangements on the UC-Davis Campus and the help of the Staff in the Department of Viticulture and Enology. Sincere thanks are due to Ms. JoAnn Coviello. I would not have been able to organize and plan this symposium without her technical expertise. Ms. Coviello assisted with all communications to authors and in the preparation of the abstracts and program.

I would like to thank Sterling Vineyards, Opus One and Niebaum-Coppola Estate Winery for allowing us to visit their wineries and for their hospitality.

Lastly, thanks are in order to the following California wineries for their generous wine donations (in alphabetical order):

Beringer Vineyards, St. Helena
E. & J. Gallo Winery, Modesto
J. Lohr Winery, Paso Robles
Niebaum-Coppola Estate Winery, Rutherford
Ravenswood, Sonoma
Robert Mondavi Winery, Oakville
Simpson Meadow Winery, Madera
Stag's Leap Wine Cellars, Napa
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Dr. Larry E. Williams
Convener, 7th International Symposium on Grapevine Physiology and Biotechnology
Department of Viticulture and Enology
University of California
Davis, California

Monday June 21 (194 Chemistry)

Time	Abstr. #	
0830		OPENING REMARKS
		SESSION 1: INTERNATIONAL GRAPE GENOME PROGRAM
0845	1	THE INTERNATIONAL GRAPE GENOME PROGRAM <i>Mark R. Thomas</i>
0900	2	AN UPDATE ON CHARACTERIZATION OF THE GRAPE TRANSCRIPTOME THROUGH EST SEQUENCING, TRANSCRIPTIONAL PROFILING AND BIOINFORMATICS <i>Francisco Goes da Silva, et al.</i>
0915	3	PROGRESS OF THE "BAC LIBRARIES, PHYSICAL MAPS AND GENOME SEQUENCING" WORKING GROUP. <i>A-F Adam-Blondon</i>
0930	4	PROGRESS IN REFERENCE GENETIC MAP AND REFERENCE POPULATION FOR MAPPING <i>M. Stella Grando and Agnès Doligez</i>
0945	5	PROGRESS IN BIOINFORMATICS – THE CHALLENGE OF INTEGRATING TRANSCRIPTOMIC, PROTEOMIC & METABOLOMIC INFORMATION <i>Grant R. Cramer et al.</i>
1000		Discussion
1015	Break	
1030	Break	
		SESSION 2: GENETICS/BIOTECHNOLOGY
1045	6	CONSTRUCTION OF A CONTIG-BASED PHYSICAL MAP OF GRAPE USING FLUORESCENT FINGERPRINTING TECHNOLOGY <i>M. Moroldo et al.</i>
1100	7	EST DATABASE AND GENE EXPRESSION STUDIES OF ABIOTICALLY STRESSED GRAPEVINE VITIS VINIFERA L. <i>Marlene C. Bohlman et al.</i>
1115	8	GENE EXPRESSION PROFILES IN RESPONSE TO NITROGEN AND CARBON NUTRITION IN VITIS VINIFERA L. <i>Hugues Barbier et al.</i>
1130	9	CONTROL OF EXPRESSION OF A RIPENING-RELATED GENE IN BERRIES AND SUSPENSION CELLS OF CABERNET SAUVIGNON <i>Catherine Tesniere et al.</i>

Monday June 21 (Cont)

Time	Abstr.	
	#	
1145	10	GENE EXPRESSION PROFILING DURING GRAPE LEAF DEVELOPMENT AND SENESCENCE BY HIGH DENSITY FILTERS <i>Claudio Moser et al.</i>

1200	Lunch	Discussion
	Lunch	

SESSION 3: GENETICS/GENERAL PHYSIOLOGY

1330	12	GENETIC SEGREGATION FOR INDICATORS OF PHOTOPERIOD CONTROL OF DORMANCY INDUCTION IN <i>VITIS</i> SPECIES <i>A. Fennell et al.</i>
1345	11	THE INFLUENCE OF CHILLING ACCUMULATION ON BUD DORMANCY OF CUTTINGS OF SANGIOVESE AND MONTEPULCIANO GRAPEVINES (<i>VITIS VINIFERA</i> L.) <i>Paolo Sabbatini et al.</i>
1400	13	FACTORS INFLUENCING PRIMARY BUD NECROSIS (PBN) IN AUSTRALIAN VINEYARDS <i>C. Collins and B. Rawnsley</i>
1415	14	POSSIBLE INVOLVEMENT OF OXIDATIVE STRESS IN BREAKING GRAPE BUD DORMANCY INDUCED BY DIFFERENT STRESS AGENTS <i>Etti Or et al.</i>
1430	16	AROMATIC POTENTIAL OF GRAPEVINES CULTIVATED IN THE NORTH AND THE SOUTH OF TUNISIA <i>H. Zemni et al.</i>
1445	17	EFFECTS OF HIGH TEMPERATURE ON SANITARY AND MORPHOLOGICAL STATUS OF TUNISIAN GRAPEVINES <i>A. Ben Salem-Fnayou et al.</i>
1500	15	STUDY OF ONTOGENY AND DEVELOPMENT OF INFLORESCENCE IN PRIMARY BUDS OF SULTANIN GRAPE (<i>VITIS VINIFERA</i> L.) BY MEANS OF EPI-ILLUMINATION LIGHT MICROSCOPY <i>M.B. Hassanpouraghdam et al.</i>
1515	Break	Discussion
1530	Break	

Monday June 21 (Cont)

SESSION 4: GENERAL PHYSIOLOGY

Time	Abstr. #	
1545	18	LEAF AND FRUIT RESPONSES OF WHITE RIESLING GRAPEVINES TO UV-RADIATION IN THE FIELD <i>Magali Lafontaine et al.</i>
1600	20	A NEW APPROACH TO EXPAND THE LIFE TIME OF <i>UNCINULA NECATOR</i> GROWING <i>IN VITRO</i> <i>Sara Monteiro et al.</i>
1615	22	ECOPHYSIOLOGICAL RESPONSE TO FLOOD OF SEVEN GRAPEVINE CULTIVARS <i>F. de Herralde et al.</i>
1630	19	DIFFERENTIALLY DISPLAYED PROTEINS IN GRAPEVINE (<i>VITIS VINIFERA</i> L.) TISSUES SUBJECTED TO HERBICIDE STRESS <i>A. Castro et al.</i>
1645	21	GROWTH AND GAS EXCHANGE OF MICROPROPAGATED GRAPEVINE PLANTS IN RELATION TO THE SUCROSE CONCENTRATION IN THE NUTRIENT MEDIUM <i>T. Slavtcheval and V. Dimitrova</i>
1700		Discussion

Tuesday June 22 (194 Chemistry)

SESSION 5: SOURCE/SINK RELATIONSHIPS

Time	Abstr. #	
0830	23	SOURCE-SINK BALANCE IN GRAPEVINE AS AFFECTED BY TRAINING SYSTEM <i>Giovan B. Mattii and Simone Orlandini</i>
0845	24	INFLUENCE OF CROP LOAD ON CHAMBOURCIN YIELD, FRUIT QUALITY, AND WINTER HARDINESS UNDER MIDWESTERN UNITED STATES ENVIRONMENTAL CONDITIONS <i>I. Dami et al.</i>
0900	25	VEGETATIVE AND REPRODUCTIVE GROWTH POTENTIAL OF <i>VITIS VINIFERA</i> L. CV. MONTEPULCIANO GRAPEVINES TRAINED TO THE 'TENDONE' SYSTEM <i>V. Nuzzo et al.</i>
0915	26	EFFECTS OF EARLY LEAF REMOVAL ON CLUSTER MORPHOLOGY, SHOOT EFFICIENCY AND GRAPE QUALITY IN <i>VITIS VINIFERA</i> L. CULTIVARS <i>S. Poni et al.</i>
0930	27	MANIPULATION OF PHOTOSYNTHESIS IN GRAPE (<i>VITIS VINIFERA</i> CV. 'FLAME') BY THE APPLICATION OF TWO SUCROSE ANALOGS <i>M.E. Tiznado-Hernández et al.</i>
0945	28	ESTIMATION OF PRIMARY AND SECONDARY LEAF AREA OF A 'TEMPRANILLO' GRAPEVINE SHOOT <i>C.M. Lopes and P.A. Pinto</i>
1000	29	NUTRIENT STATUS OF RECENTLY GRAFTED PERLETTE GRAPEVINES: EFFECT OF ROOTSTOCK <i>Mandeep Singh and J.K. Sharma</i>
1015	Break	Discussion
1030	Break	

SESSION 6: BERRY GROWTH/METABOLISM

1045	30	HORMONAL STATUS IN GRAPE BERRIES DURING RIPENING: IMPORTANCE OF CALCIUM AND POLYAMINE AND ABSCISIC ACID BIOSYNTHESIS <i>L. Geny et al.</i>
1100	31	ETHYLENE IS REQUIRED FOR THE RIPENING OF GRAPE <i>Christian Chervin et al.</i>

Tuesday June 22 (Cont)

Time	Abstr. #	
1115	32	TOWARDS AN UNDERSTANDING OF TARTARIC ACID BIOSYNT IN GRAPEVINE BERRIES <i>Seth DeBolt and Christopher M Ford</i>
1130	33	EVIDENCE FOR CAROTENOID-CLEAVAGE ENZYMES IN GRAPE <i>P. Fleischmann et al.</i>
1145	Lunch	Discussion
1200	Lunch	

SESSION 7: WATER RELATIONS/PHYSIOLOGY

1315	34	XYLEM WATER TRANSPORT INTO BERRIES OF GRAPEVINE (<i>VITIS VINIFERA</i> L.) DURING FRUIT DEVELOPMENT <i>S.D. Tyerman et al.</i>
1330	35	DIRECT MEASUREMENT OF BERRY TURGOR PRESSURE IN <i>VITIS VINIFERA</i> : RELATIONSHIP TO VINE WATER STATUS AND DEFORMABILITY, AND EVOLUTION THROUGHOUT DEVELOPMENT <i>Tyler R. Thomas et al.</i>
1345	36	IMPACT OF WATER STRESS ON CARBON PARTITIONING WITHIN SHIRAZ GRAPE BERRIES <i>M. J. Collins et al.</i>
1400	37	CHARACTERIZATION OF BERRY METABOLIC PROFILES IN GRAPEVINES BY NMR ^1H <i>G.E. Pereira et al.</i>
1415	40	MODELLING WHOLE CANOPY LIGHT INTERCEPTION AND CARBON GAIN OF <i>VITIS VINIFERA</i> L. UNDER CONDITIONS OF WATER AND NITROGEN STRESS <i>A.B. Iandolino et al.</i>
1430	38	CHANGES IN LEAF WATER STATUS IN GRAPEVINE GRAFTINGS TREATED WITH GROWTH REGULATORS <i>Slavica Todić</i>
1445	39	INVOLVEMENT OF PHOTOSYNTHESIS IN THE ACHIEVEMENT OF REPRODUCTION IN GRAPEVINE <i>Gaël Lebon et al.</i>
1500	41	CARBON ISOTOPE COMPOSITION ($\delta^{13}\text{C}$) AND WATER USE EFFICIENCY IN GRAPEVINES GROWING UNDER DEFICIT IRRIGATION <i>C.R. Souza et al.</i>

Tuesday June 22 (Cont)

1515 Break Discussion

1530 Break

SESSION 8: WATER RELATIONS/PHYSIOLOGY

Time	Abstr. #	
1545	42	REFLECTIVE MULCH TO ENHANCE BERRY QUALITY IN ONTARIO WINE GRAPES <i>Jane Coventry et al.</i>
1600	43	WATER STRESS INCREASES POLYPHENOLIC QUALITY IN MERLOT GRAPES <i>Enrico Peterlunger et al.</i>
1615	44	USING WHOLE-VINE PHOTOSYNTHESIS TO UNDERSTAND THE EFFECTS OF WATER STRESS ON PREMIUM WINE GRAPES <i>Jorge Perez Peña and Julie Tarara</i>
1630	45	PIERCE'S DISEASE SYMPTOMS: COMPARISON WITH SYMPTOMS OF WATER DEFICIT AND THE IMPACT OF WATER STRESS <i>E.T. Thorne et al.</i>
1645	46	GRAPEVINE DEFICIT IRRIGATION BY PARTIAL ROOTZONE-DRYING MODIFIES CANOPY MICROCLIMATE AND IMPROVES FRUIT QUALITY WITHOUT AFFECTING YIELD <i>Tiago P. dos Santos et al.</i>
1700	47	USE OF INFRARED THERMOGRAPHY TO ASSESS SPATIAL AND TEMPORAL VARIABILITY OF STOMATAL CONDUCTANCE OF GRAPEVINES UNDER PARTIAL ROOTZONE DRYING. AN IRRIGATION SCHEDULING APPLICATION <i>S. Fuentes et al.</i>
1715	48	WATER RELATIONS OF FIELD GROWN DRIP IRRIGATED "TEMPRANILLO" GRAPEVINES IN REQUENA, SPAIN <i>D.S. Intrigliolo et al.</i>
1730		Discussion

Tuesday June 22 (Cont) (2205 Haring Hall)

GRAPE TRANSFORMATION CONCURRENT SESSIONS

Time	Abstr. #	
0830		OPENING REMARKS <i>E. Zyprian</i>
0845	49	ISOLATION AND EVALUATION OF ANTIFUNGAL GENES FOR USE IN GRAPEVINE BIOTECHNOLOGY <i>M.A. Vivier et al.</i>
0900	50	DEFENSE-RELATED CANDIDATE GENES IN <i>VITIS</i> SPECIES <i>Wenping Qiu et al.</i>
0915	51	OVEREXPRESSION OF THE <i>VITIS VINIFERA</i> L. β -CAROTENE HYDROXYLASE GENE IMPROVES THE PHOTOPROTECTIVE ABILITY OF TOBACCO <i>Philip R. Young et al.</i>
0930	52	IDENTIFICATION OF STRESS-INDUCIBLE PROMOTERS IN <i>VITIS VINIFERA</i> <i>Richard L. Tillett et al.</i>
0945	53	ISOLATION, CHARACTERISATION AND FUNCTIONAL ANALYSIS OF A POST-VÉRAISON RIPENING-RELATED PROMOTER ELEMENT FROM <i>VITIS VINIFERA</i> CV. MERLOT <i>Anita L. Burger et al.</i>
1000	54	<i>AGROBACTERIUM</i> TRANSFORMATION OF <i>VITIS</i> CELL SUSPENSIONS: IMPROVEMENT OF TRANSFORMATION EFFICIENCY AND TRANSGENIC PLANT REGENERATION USING CRYOPRESERVED CELLS <i>Qiaochun Wang et al.</i>
1015	Break	Discussion
1030	Break	
1045	55	APPLICATION OF THE BIOLISTIC METHOD FOR GRAPEVINE GENETIC TRANSFORMATION <i>Julie R. Kikkert et al.</i>
1100	56	GENETIC TRANSFORMATION OF TABLE GRAPE VIA ORGANOGENESIS AND FIELD EVALUATION OF <i>DEFH9IAAM</i> TRANSGENIC PLANTS <i>Bruno Mezzetti et al.</i>

Tuesday June 22 (Cont) (2205 Haring Hall)

Time	Abstr. #	
1115	57	INDUCTION OF SILENCING IN TRANSGENIC GRAPEVINE (<i>VITIS</i> SP) PLANTS <i>R. Jarda-Jamoussi et al.</i>
1130	58	GENETIC TRANSFORMATION OF GRAPEVINES WITH <i>Trichoderma harzianum</i> AND PEPTIDE GENES FOR THE IMPROVEMENT OF THEIR FUNGAL TOLERANCE <i>P. Hinrichsen et al.</i>
1145	59	TRANSGENIC GRAPEVINE PLANTS EXPRESSING GREEN FLUORESCENT PROTEINS TARGETED TO THE APOPLAST AND THE VACULAR SODIUM ANTI-PORTER ATNHX1 <i>Cecilia Aguero et al.</i>
1200	Lunch	Discussion (Transformation Methodology)
	Lunch	
1330	60	GENETICALLY CUSTOMIZED SEEDLESS GRAPES FOR FRESH MARKET INDUSTRY <i>Violeta Colova-Tsolova et al.</i>
1345	61	ENGINEERING DURABLE VIRUS RESISTANCE IN GRAPEVINE: GENERATION AND EXPRESSION OF SPECIFIC RECOMBINANT ANTIBODIES (SCFV) <i>Pascal Cobanov et al.</i>
1400	62	MOLECULAR CHARACTERIZATION OF TRANSGENIC GRAPEVINE PLANTS <i>I. Gribaudo et al.</i>
1415	63	DISEASE RESISTANCE ANALYSES OF TRANSGENIC GRAPEVINES THAT CONTAIN ENDOCHITINASE OR ANTIMICROBIAL PEPTIDE GENES <i>J.R. Kikkert et al.</i>
1430	64	EVALUATION OF EXOGENOUS DNA BY QUANTITATIVE REAL-TIME PCR IN TRANSGENIC GRAPE <i>Federica Savazzini et al.</i>
1445		Discussion: Transgenic Grape Evaluation
1500		Closing Remarks <i>M.R. Thomas</i>
1515		Practical Session: Transformation Facility <i>Hosted by C. Aguero and A. Dandekar.</i>

Wednesday June 23 (194 Chemistry)

SESSION 9: GENETICS/BIOTECHNOLOGY

Time	Abstr. #	
0830	65	CLONAL POLYMORPHISM IN THE RED WINE CULTIVARS CARMENERE AND CABERNET SAUVIGNON <i>X. Moncada et al.</i>
0845	66	SEGREGATION OF TENDRIL DISTRIBUTION PATTERNING IN GRAPEVINE POPULATIONS Peter Cousins et al.
0900	67	STEPS TOWARD UNDERSTANDING THE MOLECULAR BASIS OF SEEDLESSNESS IN STENOSPERMOCARPIC GRAPES <i>Uri Hanania et al.</i>
0915	68	INTEGRATING MOLECULAR AND PHYSICAL MAPS IN GRAPEVINE (<i>VITIS VINIFERA</i> CV. PINOT NOIR): POWERFUL AIDS FOR GENE ISOLATION AND BREEDING <i>R. Velasco et al.</i>
0930	69	GRAPEVINE POWDERY MILDEW: MODULATION OF HOST GENE EXPRESSION BY A BIOTROPHIC PATHOGEN <i>Matthew A. Hayes and Ian B. Dry</i>
0945	70	PORTUGAL AS A CENTRE OF AUTOCHTHONOUS <i>VITIS VINIFERA</i> GENES <i>H. Joerg Boehm</i>
1000	Break	Discussion
1015	Break	

SESSION 10: GENERAL PHYSIOLOGY

1030	71	ROOT SURVIVORSHIP UNDER DEFICIT AND DRYLAND FARMING CONDITIONS FOR 1103P AND 101-14 MGT ROOTSTOCKS IN THE OAKVILLE REGION OF THE NAPA VALLEY <i>David R. Smart et al.</i>
1045	72	RESPIRATION ACTIVITY IN DIFFERENT ABOVE-GROUND ORGANS OF <i>VITIS VINIFERA</i> L. ACCORDING TO TEMPERATURE AND DEVELOPMENTAL STAGE <i>A. Palliotti et al.</i>
1100	73	EFFECT OF DROUGHT ON PARTITIONING OF ¹⁴ C-LABELLED PHOTOSYNTHATE IN <i>VITIS VINIFERA</i> L. <i>Josefina Bota et al.</i>

Wednesday, June 23 (Cont)

Time	Abstr. #	
1115	74	FROST HARDINESS OF IRRIGATED AND FERTIGATED CHARDONNAY VINES <i>Borbála Bálo et al</i>
1130	Lunch Lunch	Discussion
1300		Depart for Napa Valley Field Trip (Meet in front of 194 Chem)

Thursday June 24 (194 Chemistry)

SESSION 11: GENERAL PHYSIOLOGY

Time	Abstr. #	
0830	75	ENDOPHYTIC COLONIZATION OF <i>VITIS VINIFERA</i> L. BY A PGPR, <i>PSEUDOMONAS</i> SP. STRAIN PSJN THAT PROTECTS GRAPEVINE AGAINST <i>BOTRYTIS CINEREA</i> <i>S. Compant, et al.</i>
0845	76	IN VITRO GRAPEVINE AS A MODEL FOR MONITORING THE EFFECT OF EXCESSIVE LIGHT BY REAL-TIME PCR <i>L.C. Carvalho, et al.</i>
0900	77	INVESTIGATING THE POTENTIAL OF THERMAL IMAGING IN MONITORING STRESS IN GRAPEVINES <i>Olga M. Grant and M. Manuela Chaves</i>
0915	78	EFFECT OF IRRIGATION ON VEGETO-PRODUCTIVE BEHAVIOUR OF SAUVIGNON BLANC GRAPEVINE IN ITALY <i>P. Storchi, et al</i>
0930	79	EFFECTS OF BUDBREAK TEMPERATURE ON SEASONAL SHOOT AND FRUIT GROWTH IN GRAPEVINES <i>Markus Keller, et al.</i>
0945	80	A TALE OF TWO SEASONS – IMPACT OF VITICULTURAL PRACTICE ON RED GRAPE PHENOLICS <i>S-J. Bell, et al.</i>
1000	81	THE PHENOLIC COMPONENTS OF GRAPE BERRIES IN RELATION TO WINE COMPOSITION <i>Douglas O. Adams, et al.</i>
1015	Break	Discussion
1030	Break	

Thursday June 24 (Cont)

SESSION 12: GENETICS/BIOTECHNOLOGY

Time	Abstr. #	
1045	82	COMPARISON AND OPTIMIZATION OF RNA EXTRACTION METHODS FOR GRAPE LEAVES <i>Elizabeth A.R. Tattersall, et al.</i>
1100	83	STUDY OF A NOVEL GRAPEVINE WRKY TRANSCRIPTION FACTOR AND ITS ROLE IN PLANT DEFENSE RESPONSES <i>R. Mzid, et al.</i>
1115	84	ISOGENE SPECIFIC OLIGO ARRAYS REVEAL MULTIFACETED CHANGES IN GENE EXPRESSION DURING GRAPE BERRY (<i>VITIS VINIFERA</i> L.) DEVELOPMENT <i>N. Terrier, et al.</i>
1130	85	COMBINING LINKAGE ANALYSIS AND LINKAGE DISEQUILIBRIUM MAPPING TO DISSECT THE GENETICS OF FRUIT COLOR IN GRAPEVINE <i>Christopher L. Owens</i>
1145	86	GRAPEVINE ESTS AND THEIR USE IN MICROARRAY ANALYSIS TO STUDY GENES CONTROLLING GRAPEVINE BERRY RIPENING AND DEVELOPMENT <i>M.R. Thomas, et al.</i>
1200	Lunch	Discussion Lunch

SESSION 13: IRRIGATION RESEARCH

1330	88	THE EFFECTS OF IRRIGATION AMOUNTS AND VINE SPACING ON PHYSIOLOGY, GROWTH AND PRODUCTIVITY OF TEMPRANILLO GRAPEVINES. <i>J. Yuste, et al.</i>
1345	89	INTEGRATED STRATEGIES TO MANAGE SEASONAL VARIATION IN WINE GRAPE MATURATION: DEFICIT IRRIGATION AND HEAT STRESS <i>N.M. Cooley, et al.</i>
1400	90	LIGHT RESPONSE OF LEAF PHOTOSYNTHESIS IN TEMPRANILLO GRAPEVINES (<i>VITIS VINIFERA</i> L.) IN TWO IRRIGATION TREATMENTS <i>P. Sánchez-de-Miguel, et al.</i>

Thursday June 24 (Cont)

Time	Abstr. #	
1415	91	AGRONOMIC AND ECOPHYSIOLOGICAL RESPONSE OF FIELD-GROWN CABERNET SAUVIGNON GRAPEVINES UNDER THREE WATER MANAGEMENT REGIMES <i>P. Baeza, et al.</i>
1430	92	COUPLING OF PLANT TO SOIL WATER STATUS IN DIFFERENT VINE YARD SITES <i>Bernd R. Gruber and Hans R. Schultz</i>
1445	87	EFFECTS OF SOIL WATER AVAILABILITY ON THE PHYSIOLOGY OF VITIS VINIFERA L. (cv. PROSECCO) AND THE QUANTITATIVE, QUALITATIVE, SOCIAL AND ECONOMIC ASPECTS OF ITS PRODUCTION <i>Giovanni Cargnello</i>
1500	Break	Discussion
1515	Break	

POSTER SESSION (Abstract numbers 108 – 140)

CABERNET ROOM, SILO UNION

1530 1530 – 1630: Authors present for even numbered posters

1630 – 1730: Authors present for odd numbered posters

1930 SYMPOSIUM DINNER, WICKSON HALL PATIO

Friday June 25 (194 Chemistry)

SESSION 14: GRAPEVINE WATER RELATIONS

Time	Abstr. #	
0830	93	PHYSIOLOGICAL MECHANISMS INVOLVED IN THE PRODUCTION OF NON HYDRAULIC ROOT SIGNALS BY PARTIAL ROOT DRYING <i>Ben-Ami Bravdo</i>
0900	94	ROLES OF YIELD AND BERRY SIZE IN WINEGRAPE COMPOSITION AND WINE ATTRIBUTES <i>M.A. Matthews</i>
0930	95	VINE WATER RELATIONS AND PRODUCTIVITY OF FIELD-GROWN <i>VITIS VINIFERA</i> L. IN RESPONSE TO HIGH FREQUENCY DRIP IRRIGATION <i>L.E. Williams</i>
1000	Break	Discussion
1015	Break	

SESSION 15: GENETICS/BIOTECHNOLOGY

1030	96	THE REGULATION OF POLYGALACTURONASE INHIBITING PROTEINS IN GRAPEVINE (<i>VITIS VINIFERA</i>) <i>D.A. Joubert, et al.</i>
1045	97	OVEREXPRESSION OF THE <i>VITIS VINIFERA</i> L. β -CAROTENE HYDROXYLASE GENE IMPROVES THE PHOTOPROTECTIVE ABILITY OF TOBACCO <i>Philip R. Young, et al.</i>
1100	98	CHARACTERIZATION OF TWO TRANSCRIPTION FACTORS INVOLVED IN THE REGULATION OF PHENYLPROPANOID METABOLISM IN GRAPE BERRY <i>L.G. Deluc, et al.</i>
1115	99	STRESS- AND TISSUE-SPECIFIC EXPRESSION OF CBF GENES IN GRAPE <i>Huogen Xiao, et al.</i>
1130	100	MOLECULAR ANALYSIS OF WATER STRESS EFFECTS ON AQUAPORIN GENES EXPRESSION IN DIFFERENT <i>VITIS VINIFERA</i> CULTIVARS <i>R. J-B. Fouquet, et al.</i>

Friday June 25 (Cont)

Time	Abstr. #	
1145	101	IDENTIFICATION AND CHARACTERIZATION OF cDNAs INVOLVED IN THE TOLERANCE OF GRAPEVINE TO DROUGHT AND SALINITY <i>M. Hanana et al.</i>
1200	102	MOLECULAR ASPECTS OF SUGAR TRANSPORT, SUGAR SENSING AND DEFENCE IN GRAPE <i>A. Agasse et al.</i>
1215	103	MOLECULAR ECOLOGY, POPULATION GENETICS AND EVOLUTIONARY SYSTEMATICS OF WILD GRAPE SPECIES: RELEVANCE FOR GRAPEVINE PHYSIOLOGY AND BIOTECHNOLOGY <i>Heidi R. Schwaninger and Charles Simon</i>
1230	Lunch	Discussion Lunch

SESSION 16: CLIMATE CHANGE AND VITICULTURE

1400	104	RELIABILITY OF CLIMATE CHANGE IMPACT ASSESSMENTS FOR VITICULTURE <i>Manfred Stock, et al.</i>
1430	105	CLIMATE CHANGE IN THE WESTERN UNITED STATES GRAPE GROWING REGIONS <i>Gregory V. Jones</i>
1500	106	CLIMATE WARMING: CONSEQUENCES FOR GENERAL VITICULTURE AND THE NOTION OF 'TERROIRS' IN EUROPE <i>Bernard Seguin and Inaki Garcia de Cortazar</i>
1530	107	MODELING THE EFFECT OF CLIMATE CHANGE ON GRAPEVINE WATER RELATIONS <i>Hans R. Schultz and Eric Lebon</i>
1600		Discussion Adjourn