Conference Programme

Sunday 19 March

Registration Desk opens – War Memorial Centre
11.00 am

Research Orchard Tour
2.00-4.00 pm

Afternoon Tea
4.00-5.00 pm

Welcome Reception – Lower Lawn, War Memorial Centre
7.00-7.30 pm

Opening by David Pilkington, Chairman, Prevar Ltd – Ballroom, War Memorial Centre
7.30-7.40 pm

Opening Remarks
7.40-8.00 pm

BBQ & Reception – Exhibition Hall, War Memorial Centre
8.00-9.30 pm

Monday 20 March

Announcements – Ballroom, War Memorial Centre
8.30-8.35 am

Plenary 1: Bioinformatics and Databases
8.35-10.30 am

Chair: Erik Rikkerink (HortResearch, Auckland)
SESSION SPONSOR: HORTRESEARCH

OP1  Ross Crowhurst (HortResearch, Auckland)
8.35-9.20 am
Bio View - an enterprise bioinformatic system for automated analysis and annotation of non-genomic DNA sequence

OP2  Margaret Staton (Clemson Univ., SC)
9.20-10.00 am
Unigene Development and SNP Discovery from Rosaceae Family EST Resources

OP3  Angela Baldo (USDA-ARS, Geneva)
10.00-10.30 am
*In silico* identification of apple rootstock specific transcripts

Morning tea
10.30-11.00 am

Bert Abbott (Clemson Univ., SC)
Demonstration of GDR database
10.40-10.55 am

Workshop 1: Genomics of Disease Resistance
11.00-1.00 pm
Chair: Luca Gianfranceschi (Univ. Milan)

OP4  Donna Lalli (Clemson Univ., SC)
11.00 -11.20 am
A Resistance Gene Map for Prunus

OP5  Charles-Eric Durel (INRA, Angers)
11.20 -11.40 am
Genetic localisation of new major and minor pest and disease resistance factors in the apple genome

OP6  Mickael Malnoy (Cornell Univ., Geneva NY)
11.40-12.00 pm
The role of Vfa RGA’s at the Vf locus in resistance to *Venturia inaequalis*

OP7  Erik Rikkerink (HortResearch, Auckland)
12.00-12.20 pm
Phylogenetic analysis of a large database of apple resistance gene analogues identifies NBS clades conserved in the Rosids

OP8  Thomas Debener (Univ., Hannover)
12.20-12.40 pm
Genetic and genomic analyses of disease resistance genes in roses

OP9  Frank Dunemann (Inst. Obstzüchtung, Dresden)
12.40-12.50 pm
Biodiversity of the apple powdery mildew fungus 
(*Podosphaera leucotricha*) and interactions with its host

**Discussion**
12.50-1.00 pm

**Lunch**
1.00-2.30 pm

**Workshop 2: Molecular Markers and Quality Trait Mapping**
2.30-4.30 pm
Chair: *Ariel Orellana* (University of Andres Bello, Santiago)

**OP10**  
*Henk Schouten* (Univ., Wageningen)  
2.30-3.00 pm  
Quality assessment of the DNA marker technology DArT using *Arabidopsis thaliana*, and application to apple

**OP11**  
*Fabrice Foucher* (INRA, Angers)  
3.00-3.20 pm  
Molecular control of recurrent blooming in rose by genetic and genomic approaches

**OP12**  
*Elisabeth Dirlewanger* (INRA, Bordeaux)  
3.20-3.40 pm  
Characterisation of several traits affecting flower and fruit in peach (*Prunus persica L. Batasch*) and new genetic linkage map

**OP13**  
*Luca Gianfranceschi* (Univ., Milan)  
3.40-4.00 pm  
The European project HiDRAS: An innovative multidisciplinary approach to breed High-quality Disease Resistant Apples for a Sustainable Agriculture

**OP14**  
*Gayle Volk* (USDA-ARS, Ft Collins, CO)  
4.00-4.15 pm  
Characterization of wild *Malus* populations using genotypic and phenotypic traits

**Discussion**
4.15-4.30 pm

**Concurrent Afternoon tea and Poster Session – Exhibition Hall**
4.30-5.30 pm
Topics covered are Bioinformatics and Databases; Disease Resistance; Molecular Markers; Genetic Mapping.

Harbour Cruise – Hawke’s Bay Wine Country Cat  
7.00-11.00 pm
Tuesday 21 March

Announcements – Ballroom, War Memorial Centre
8.30-8.35 am

Plenary 2: Rosaceae Biology
8.35-10.30 am
Chair: Ian Ferguson (HortResearch, Auckland)

SESSION SPONSOR: MORST

OP15 Amy Iezzoni (Michigan State Univ., E. Lansing, MI)
8.35-9.00 am
Self-compatibility in tetraploid sour cherry (Prunus cerasus) results from the accumulation of non-functional S-haplotypes

OP16 Kim Snowden (HortResearch, Auckland)
9.00-9.25 am
Genetic control of plant branching

OP17 Evelyne Costes (INRA, Montpellier)
9.25-9.50 am
Wide range QTL analysis for complex architectural traits in a one-year-old apple progeny

OP18 James Olmstead (Michigan State Univ., E. Lansing, MI)
9.50-10.10 am
Fruit size QTL in sweet cherry: Cell number is under stronger genetic control than cell size

OP19 Jean-Marc Celton (HortResearch, Palmerston N.)
10.10-10.30 am
Genetic mapping of DW1, a locus required for dwarfing of apple scions by M9 rootstock

Morning tea
10.30-11.00 am

Plenary 3: Functional Genomics- System Approaches
11.00-1.00 pm
Chair: Schuyler Korban (Univ. Illinois, Urbana, IL)

SESSION SPONSOR: NSF-OISE

OP20 Ingo Hein (SCRI, Invergowrie-Dundee)
11.00-11.40 am
Microarray-based gene expression studies of dormancy phase transition in raspberry (Rubus idaeus L.) buds

OP21 Rozemarijn Dreesen (Catholic Univ., Leuven)
11.40-12.10 pm
Transcriptomics of ripening in apple as a tool to improve apple quality traits

**OP22** Robert Schaffer (HortResearch, Auckland)
12.10-12.35 pm
Microarray analysis of ripening in Apple (cultivar Royal Gala)

**OP23** Abhaya Dandekar (Univ. California, Davis, CA)
12.35-1.00 pm
Systems approach to the functional analysis of apple fruit quality

**Lunch**
1.00-2.30 pm

**Workshop 3: Functional Genomics - Candidate Gene Approaches**
2.30-4.30 pm
Chair: Bert Abbott (Clemson Univ., SC)

**OP24** Cameron Peace (Univ. California, Davis)
2.30-2.50 pm
Fruit softening in *Prunus*: progress and prospects of the candidate gene approach

**OP25** Kanji Isuzugawa (Yamagata Gen. Ag. Res. Centre)
2.50-3.10 pm
In vitro flowering of transgenic pears (*Pyrus communis* L.) expressing CiFt, a citrus ortholog of the Arabidopsis FT gene

**OP26** Peter Hirst (Purdue Univ., W. Lafayette, IN)
3.10-3.30 pm
Explaining natural variation in apple fruit size in terms of cell production and cell cycle gene expression

**OP27** Andrew Allan (HortResearch, Auckland)
3.30-3.50 pm
The MYB transcription factors of Apple: a family of genes involved in controlling a wide range of fruit tree responses

**OP28** Nobuhiro Kotoda (NIFTS-NARO, Morioka)
3.50-4.10 pm
Reduction of juvenile phase in apple by transgenic approaches

**Discussion**
4.10-4.30 pm

**Concurrent Afternoon tea and Poster Session - Ballroom**
4.30-5.30 pm
Topics covered Trait Mapping, Comparative Genomics, Rosaceae Biology, Functional Genomics.

Conference Dinner – Mission Estate Winery
7.00-12.00 am
Wednesday 22 March

Announcements – Ballroom, War Memorial Centre
8.30-8.35 am

Plenary 4: Rosaceae - a Multi-species Genomics System
8.35-10.30 am
Chair: Elisabeth Dirlewanger (INRA, Bordeaux)

OP29 Tatyana Zhebentyayeva (Clemson Univ., SC)
8.35-9.15 am
The peach physical/genetic map database: a tool for Rosaceae genomics

OP30 Bart Janssen (HortResearch, Auckland)
9.15-9.55 am
Microarray analysis of Fruit Development in Apple

OP31 Vladimir Shulaev (Virginia State Univ., Blacksburg, VI)
9.55-10.30 am
Insertional mutagenesis as a functional genomics tool in Strawberry (Fragaria vesca)

Morning tea
10.30-11.00 am

Concurrent Workshops 4-6, Rosaceae Sub-family
11.00-1.00 pm

Workshop 4: Maloideae
Ballroom
Venue: Ballroom
Chair: Eric Van de Weg (Univ. Wageningen)

OP32 Schuyler Korban (Univ. Illinois, Urbana, IL)
11.00-11.15 am
Development of a genome-wide physical map of apple genome

OP33 Eric Van de Weg (Univ. Wageningen)
11.15-11.30 am
Pedigree Genotyping: Pedigree-based approaches to multiple crosses allow allele mining and detection of epistasis among QTLs

OP34 Herb Aldwinckle (Cornell Univ., Geneva, NY)
11.30-11.45 am
Genetic transformation of apple without use of a selectable marker

OP35 Toshiya Yamamoto (NIFTS, Univ. Tsukuba)
11.45-12.00 pm
Genome Mapping in Pear

Discussion
12.00-1.00 pm
Workshop 5: Prunoideae  
Breakout Room 2  
Chair: Amy Iezzoni (Michigan State Univ., E. Lansing MI)

OP36 Ariel Orellana (Univ. Andres Bello, Santiago)  
11.00-11.25 am  
The chilean peach functional genomics initiative, a progress report

OP37 Père Arús (IRTA, Cabrils)  
11.25-11.50 am  
Microsatellite transportability across Rosaceae crops

OP38 Ryutaro Tao (Kyoto Univ.)  
11.50-12.10 pm  
Self-compatible peach has mutant versions of the S-locus genes

OP39 Carlos Romero (IVIA, Moncada, Valencia)  
12.10-12.30 pm  
Loss of pollen functions analysis in two self-compatible selections of apricot (Prunus armeniaca L.)  
Evidence of a new pollen component involved in the SI mechanism

Discussion  
12.30-1.00 pm

Workshop 6: Rosoideae  
Breakout Room 1  
Chair: Fabrice Foucher (INRA, Angers)

OP40 Tom Davis (Univ. New Hampshire, Durham, NH)  
11.00-11.25 am  
Sequence samples and gene pairs haplotypes in strawberry

OP41 Arnaud Bovy (Univ. Wageningen)  
11.25-11.50 am  
Metabolomics screening of the biochemical diversity in strawberry fruit

OP42 Irene Tierny (SCRI, Invergowrie-Dundee)  
11.50-12.15 pm  
Molecular Breeding for root rot resistant raspberries suitable for low input growing systems

Discussion  
12.15-1.00 pm  
General discussion on development of common resources for Rosoideae

Lunch  
1.00-2.30 pm

Workshop 7: The Future of Rosaceae Genomics  
2.30-5.45 pm  
Co-Chairs:  
Père Arús (IRTA, Cabrils),  
Sue Gardiner (HortResearch, Palmerston N.),  
Vladimir Shulaev (Virginia State Univ., Blacksburg, VI)
Discussion
2.30-4.15 pm

Afternoon Tea
4.15-4.30 pm

Discussion
4.30-5.45 pm

The 4th International Rosaceae Genomics Conference
5.45-5.55 pm
Planning discussion

Conference Closing Address
5.55-6.00 pm
HortResearch Visits

Tuesday 14 March – Friday 17 March Pre-conference Workshop for Young Researchers:  *HortResearch, 120 Mt Albert Road, Auckland*

**Friday, 17 March, 10.30 am – 4.00 pm HortResearch Visit: HortResearch, 120 Mt Albert Road, Auckland**

Visitors will be able to choose to visit several laboratories and interact with HortResearch staff at the Mount Albert Research Centre in Auckland. Staff at this, the largest HortResearch site, play an active role in most of the research programmes within the institute as a whole and have access to state of the art equipment, for example including the in-house HortResearch micro-array and bioinformatics facilities, a DNA sequencer, and Real-Time PCR equipment. This tour could include short visits to laboratories involved in a number of different areas of research including plant disease resistance genes, plant development, olfactory receptors in apple pests, microsatellite marker mining and development, ester biosynthesis in apple and plant-pathogen interactions.

**Thursday 23 March, 10.00 am - 3.00 pm  HortResearch, Tennent Drive, Palmerston North**

Research activities located at the Palmerston North Research Centre include: plant gene mapping (apple, *Prunus*, and raspberry) for pest/disease resistance traits, fruit quality and dwarfing. Anonymous markers identified using our high throughput technology and candidate genes selected from the EST database on the basis of sequence homologies and expression studies carried out at Mt Albert are mapped as microsatellites, SNPs or SCARs. We will demonstrate the automated DNA extraction system developed here. This mapping team carries out all the MAS screens for the pipfruit breeders. Other Palmerston North researchers working on Rosaceae genomics are studying the reduction of generation time in apple, architectural modelling, flavour chemistry, antioxidants as health compounds as well as the development and use of monoclonal antibodies.

**Friday 24 March 2006, 10.30 am – 4.00 pm  HortResearch, Old Mill Road, Motueka, Nelson**

The visit to the HortResearch centre in Motueka near Nelson will cover the breeding and applied genetics programmes of four crops each with their own specific breeding objectives:

- Hop (seedless triploid cultivars of high alpha types with good bittering properties and aroma types with good flavour characteristics)
- Berryfruit (pest and disease-resistant low chill raspberries and boysenberries with high quality fruit for the fresh market or for processing)
- Pear (new types that have crisp and juicy flesh textures with novel flavours and a long storage and shelf life by combining European, Japanese (Nashi) and Chinese pear)
- Kiwifruit (green-fleshed and yellow-fleshed cultivars, and some novel types including some with edible (hairless) coloured skin)
Post-conference Activity: Thursday 23 March, 3.30 pm – Friday 24 March, 3.00pm
NSF / MORST U.S.-N.Z., ROSACEAE GENOMICS PARTNERSHIP WORKSHOP
Biocommerce Centre, Tennent Drive, Palmerston North (participants will be escorted from HortResearch reception)
Posters session 1  Monday 20 March  4.30 – 5.30 pm
Exhibition Hall

Bioinformatics and databases
A1 Chillpeach: a functional genomics database to understand peach chilling injury
Antonio Granell, C.H. Crisosto, Cristina Martí, T.M. Gradziel, Javier Forment, and C.P. Peace

A2 Creation of a new versatile database for linking molecular and phenotypic information of apple (*Malus x domestica* Borkh.): the HiDRAS ‘AppleBreed Database’

A3 Computational Analysis of Putative Resistance Gene Analogs in Raspberry
Angela M. Baldo, Suren Samuelian, Courtney A Weber

A4 Bioinformatic Advances In The Chilean Nectarine Functional Genomics Consortium

A5 GDR: A Database Resource for Comparative Genomics in Rosaceae
Sook Jung, Margaret Staton, Stephen Ficklin, Ilhyung Cho, Albert Abbott and Dorrie Main

Disease resistance
A6 Development of resistance to bacterial and fungal diseases by over-expressing the apple gene *MpNPR1* in apple
M. Malnoy, E.E. Borejsza-Wysocka, Q. Jin, S. He, and H.S. Aldwinckle

B1 Increasing resistance to *Erwinia amylovora* in apple by silencing apple DIPM genes
E.E. Borejsza-Wysocka, M. Malnoy, X. Meng, J. Bonasera, S.V. Beer and H.S. Aldwinckle

B2 Identification of SSRs linked to sharka resistance on apricot by mapping approach. Application on marker assisted selection

B3 Map-based cloning of the avirulence gene *avrVg* of *Venturia inaequalis* Broggiini G, Patocchi A, Le Cam B, Parisi L, Gessler C

B4 Cloning and Characterization of Resistance Gene Analogs from Roses
Anja Hattendorf, Thomas Debener

B5 Molecular research for breeding disease resistant apple cultivars with high fruit quality
Frank Dunemann, Anastassia Boudichevskaja and Silke Lesemann

B6 Diversity and characterization in USDA *Malus* and tetraploid cherry germplasm collections in Geneva, NY
Philip L. Forsline, Gennaro Fazio, Herb Aldwinckle, Amy F. Iezzoni, and Gayle M. Volk

C1 Evaluation of horticulturally elite *Malus sieversii* germplasm for apple scab resistance genes using phenotypic and marker-based screening
James Luby, Karen Hokanson, Phil Forsline, Herb Aldwinckle, Herb Gustafson, Sue Gardiner, Rosalie Bone, Michael Cook and Vincent Bus

C2 Cloning and linkage mapping of new NBS-LRR resistant gene candidates and identification of markers associated to susceptibility to *Fusicoccum* canker in almond (*Prunus dulcis*)
Pedro Barros, Madalena Martins, Ma Rong-Cai, Pere Arús and M. Margarida Oliveira

C3 Resistance to Prune dwarf virus can result from RNA mediated gene silencing
Helena Raquel, Tiago Lourenço and M. Margarida Oliveira

C4 Efforts to elucidate mechanisms and genetics of fire flight resistance in apple
Andreas Peil, Frank Dunemann, Tania Garcia, Klaus Richter, Bodo Trognitz, Viola
Hanke and Henryk Flachowsky

C5 Studies on apple disease resistance genes
Joseph Mafoko and D. Jasper G. Rees

C6 Genetic analysis of resistance to apple scab (Venturia inaequalis) in apple, (Malus x
domestica Borkh)
Simayi, I.F. Labuschagné and D.J.G. Rees

D1 Genetic analysis of resistance to powdery mildew (Podosphaera leuchotricha) in
apple (Malus x domestica Borkh.)
Labuschagné and D.J.G. Rees

D2 Genetic analysis for resistance to Woolly Apple Aphid in apple rootstock breeding
populations
Labuschagné and D.J.G. Rees

D3 Identification and genetic characterisation of Vdr1, a new major scab resistance gene
from the apple cultivar 'Dülmener Rosenapfel'
V. Freslon, V. Bus, I. Gianfranceschi, A. Patocchi, C.E. Durel

D4 Apple homologues of the tobacco hsr203j gene
Peter Murphy, Erik Rikkerink and Kim Plummer

D5 Mapping of the apple scab resistance gene Vb from Hansen’s baccata #2
Erdin N., Tartarini S., Broggin G.A.L., Gennari F., Sansavini S., Gessler C., Patocchi A.

D6 Molecular Markers Linked to Disease Resistance Genes in Pear
Shingo Terakami, Yoshihiko Adachi, Norio Takada, Yutaka Sawamura, Akihiko Sato,
Toshio Hirabayashi, Yoshihiko Sato, Chikako Nishihitani and Toshiya Yamamoto

Molecular markers
E1 Genotyping and identification of sweet cherry cultivars using SSR markers
Tadashi Takashina, Narumi Matsuda, Tetsuya Kimura and Toshiya Yamamoto

E2 Construction of kiwifruit BAC contig maps by overgo hybridization and their use for
the targeted region around the sex locus
Elena Hilario, Tiffany Bennell, Lena Fraser, Mark McNeillage, Ross Crowhurst, Erik
Rikkerink, and Elspeth MacRae

E3 Genetic diversity of apple rootstocks combining EST-based and anonymous nuclear
microsatellite markers
Fazio G. and Baldo A

E4 Microsatellite markers amplification across Actinidia species
G. K. Tsang, L. G. Fraser, M. A. McNeillage, H. N. De Silva

E5 Prunus Genetic Resources and Research at the Davis California National Clonal
Germplasm Repository
E. Stover, M. Aradhya, C. Weeks, P Forsline

**Genetic mapping**

**E6** Development of Marker Assisted Selection Technology for Apple and Pear Breeding in South Africa  

**F1** SSR genetic linkage map of sweet cherry (*Prunus avium*)  
Dirlewanger E., Capdeville G., Tauzin Y., Cosson P., Laigret F., Claverie J.

**F2** The construction of an almond linkage map using morphological and SSR markers on Nonpariel x Lauranne population  
Iraj Tavassolian, Brent Kaiser, Michelle Wirthensohn, Margaret Sedgely and Chris Ford

**F3** EST mapping of apple  
Takanori Ueda, Megumi Igarashi, Yoshie Abe, Yoshimichi Hatsuyama, Tomoyuki Kon, Tomoko Fukasawa-Akada, Tsuyoshi Kudo, Takashi Sato and Masahiko Suzuki

**F4** Alignment of sweet cherry linkage groups with the *Prunus* reference map  
James Olmstead and Amy Iezzoni

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**Posters session 2**  
**Tuesday 21 March**  
**4.30 – 5.30 pm**  
**Ballroom**

**Trait Mapping**

**G1** SNP discovery in apple genes: application for red color  
David Chagné, Charmaine Carlisle, Richard Volz, Andrew Allan, Richard Espley, Roger Hellens, Ross Crowhurst, Susan Gardiner

**G2** Genetic Analysis Of Temperate Fruit Quality And Health In The New European Project ISAFRUIT  

**G3** The development of linkage genetic map for chilling requirement in peach  
Shenghua Fan, Douglas Bielenberg, Tetyana Zhebentayeva, Greg Reighard, Albert G. Abbott

**G4** MAS: Development of AFLP Markers in *Prunus persica* Diagnostic for Response to the Peach Tree Short Life Syndrome  

**G5** Marker assisted selection (MAS) for fruit shape in peach (*Prunus persica*): flat or round  

**G6** Identification of DNA markers closely linked to Pale green lethal in apple  
Yoshimichi Hatsuyama, Yoshie Abe, Tomoko Fukasawa-Akada, Tomoyuki Kon, Megumi Igarashi, Takanori Ueda, Tsuyoshi Kudo, Takashi Sato and Masahiko Suzuki

**H1** Genetic map and markers for *Prunus* associated with response to the Peach Tree Short Life syndrome

H2 Breeding functional apples; identification of QTL’s for mean vitamin C contents of fruit skin and flesh
Davey M.W., Razavi, F., and Keulemans W.

H3 Marker-assisted selection tools for internal breakdown resistance in peach

H4 Genetic mapping of fruit quality traits in apples (Malus x domestica Borkh.)

H5 Genetic Analysis of Red Pigmentation in Bon Rouge Pears

H6 An Investigation of the Molecular Mechanism Underlying the Production of Anthocyanin in ‘Bon Rouge’ (Pyrus communis, L) pear trees and their green reverted sports
Marlene G du Preez, M James Sehata and D Jasper G Rees

I1 Functional mapping and genomics approaches for the study of aroma determination in peach (Prunus persica)
Francesca Barale, Alberto Vecchietti, Claudia Ortugno, Barbara Lazzari, Albert Abbott, Francesco Salamini and Carlo Pozzi

Comparative genomics
I2 Comparing the Linkage Maps of Two Levels of Ploidy in Fragaria
B Denoyes-Rothan, M. Rousseau, L. Barrot, E. Lerceteau-Kohler, D. Sargent, D. Simpson, A. Monfort, G. Guerin, Pere Arus

I3 Comparative mapping in the Rosoideae tribe : Fragaria and Rosa

I4 Molecular Characterization of the US Apple Germplasm Collection
Charles Simon

Rosaceae Biology
I5 Using controlled environments to accelerate flowering of Malus seedlings
Paul Austin, Cara Norling, Richard Volz, Vincent Bus, Sue Gardiner

I6 Analysis of QTLs affecting dormancy release in apple (Malus x domestica Borkh.)
Maria M. van Dyk, M. Callies Selala, Zolani Simayi, Sonwabo Booi, Ramsey Maharaj, M. Khashief Soeker, Iwan F. Labuschagné and D. Jasper G. Rees

J1 The S locus in self-compatible ‘Cristobalina’ sweet cherry
A.Wünsch, R. Tao, J.I. Hormaza

Functional genomics
J2 Identification of Genes with Modulated Expression During Fruit Development in Malus x domestica Borkh
Valeria Soglio, Henk Schouten, Fabrizio Costa, Luca Gianfranceschi

J3 Endopolygalacturonase marker-assisted breeding for novel fruit types in peach
Thomas Gradziel, Cameron P. Peace, and Carlos Crisosto
J4 Analysis and functional annotation of an expressed sequence tag (EST) collection of apple (*Malus x domestica*)
Ksenija Gasic, D. Orlando Gonzales, Mickael Malnoy, Jyothi Thimmapuram, Lila O. Vodkin, Lei Liu, Herb S. Aldwinckle, Natalie Carroll, Kathryn Orvis, Peter Goldsbrugh, Sandra Clifton, Lucinda Clifton, Mike Dante, Shunfang Hou, William Courtney, and Schuyler S. Korban

J5 Improving the knowledge of apple quality by functional genomics approaches. Perspectives at INRA Angers
F. Wattebled, E. Chevreau, C.E. Durel, F. Laurens

J6 Functional genomics in Prunus persica: proteomic analysis during postharvest and different varieties

K1 The use of zinc transporter genes to improve mineral absorption by apple rootstocks

K2 Functional and Applied Genomic Research on Peach and Apple
Dariusz Swietlik, John Norelli, Michael Wisniewski, Carole Bassett, Ralph Scorza, and Ann Callahan

K3 Identification of *anthocyanidin synthase* gene promoters in apples
Chikako Honda, Benjamin Ewa Ubi, Yusuke Ban, Hideo Bessho, Masato Wada, Shozo Kobayashi and Takaya Moriguchi

K4 Identification of RFLP markers for ethylene production in ripening fruits of Asian pear
Akihiro Itai

K5 Genomic cloning of a gene coding for an O-methyltransferase from apple
Yuepeng Han and Schuyler S. Korban

K6 The application of precocious flowering apple to functional genomics
Nobuhiro Kotoda, Naozumi Mimida, Motoko Suzuki, Chikako Honda, Hiroshi Iwanami and Kazuyuki Abe

L1 A molecular approach to the adventitious regeneration system and an improved genetic transformation system for functional studies in almond (*Prunus dulcis*)
A. Margarida Santos, Melvin J. Oliver, Milene Costa, Ana Sanchez, Nelson Saibo and M. Margarida Oliveira

L2 Metabolomics screening of the biochemical diversity in strawberry fruit
Ric de Vos, Bert Meulenbroek, Jan Schaart, Robert Hall, Eleonora D'Amico, Gaetano Perrotta and Arnaud Bovy

L3 *Fragaria* Genomics at the University of Florida
Amit Dhingra, Philip J. Stewart, Denise Tombolato, Thelma Madzima, Thomas Colquhoun, Leighton Howard and Kevin M. Folta