Sunday 5th September

14:00-18:00	Registration
18:00 - 18:15	Prof Howard Davies (Deputy Director, SCRI) and SOL2010 organising committee
	Welcome to SOL 2010
18:15 - 19:00	Prof Sir David Baulcombe FRS
	Dept of Plant Sciences, University of Cambridge, UK
	Genome interactions in hybrid Solanum species and RNA silencing
19:30- 21:30	Welcome reception, Discovery Quay (includes drinks and snacks)

Monday 6th September

Session 1: SOL Biodiversity and Evolution (Chair Sandy Knapp) – City Quay Suite

09:00 - 09:30	Mario Vallejo-Marin University of Stirling, UK Interactions between anther morphology and pollinator behaviour in Solanum and their implications for floral evolution
09:30 - 10:00	Andrew Leitch Queen Mary University, London, UK Evolution of allopolyploids in the genus Nicotiana
10:00 - 10:15	Daniel Matton Université de Montréal, Canada. Pollen tube guidance in Solanaceous species: a highly species-specific interspecific breeding barrier
10:15 - 10:30	Mathilde Causse INRA, Montfavet, France Genome admixture of Solanum lycopersicum var cerasiforme allows successful association mapping in tomato
10:30 - 10:45	Dora Szinay Wageningen University, Netherlands Chromosomal evolution in Solanum with cross-species FISH painting
10:45 - 11:15	Tea & Coffee Break

Session 2: Plant Growth and Development (Chair Jim Giovannoni) - City Quay Suite

11:15 - 11:40 Mondher Bouzayen Université de Toulouse, France The tomato Auxin Response Factor ARF8 is a central figure of the mechanism controlling fruit set initiation 11:40 - 12:00 Neelima Sinha University of California Davis, USA EvoDevo meets Genomics – The Lycopersicon complex in tomato 12:00 - 12:15 **Graham Seymour** University of Nottingham, UK Developmental regulation of ripening in fleshy fruits 12:15 - 12:30 Naomi Ori Hebrew University of Jerusalem, Israel Regulation of tomato compound leaf development by cytokinin and auxin 12:30 - 12:45 **Tom Gerats** Radboud University, Netherlands Developmental mutants in Petunia 12:45 - 13:00 David Clark University of Florida, USA A petunia R2R3-MYB transcription factor involved in the dynamic process of anthesis 13:00 - 14:00 Lunch Posters (odd numbers) and coffee - Mezzanine level 14:00 - 15:30

Session 3: SOL Genomes (Chair Rene Klein Lankhorst) - City Quay Suite

Giovanni Giuliano

15:30 - 16:00

	ENEA, Italy The genome that makes tomatoes
16:00 - 16:30	Robin Buell Michigan State University, USA The Potato Genome Sequence
16:30 - 16:50	Nikolai Ivanov Philip Morris International, Switzerland Challenges of tobacco genome sequencing and assembly

19:30	Dinner at Apex Hotel (including whisky tasting) - City Quay Suite
17:30 - 19:00	Optional poster viewing
17:10 - 17:30	Bicheng Yang Beijing Genomics Institute, China Genomics solutions on developing reference genomes in BGI
16:50 - 17:10	Doil Choi Seoul National University, Korea Toward completion of the genome that makes hot pepper

Tuesday 7th September

Session 4: Biotic Stress (Chair Doil Choi) - City Quay Suite

09:00 - 09:25	Sophien Kamoun Sainsbury Laboratory, UK Exploiting pathogen effectors in breeding and deployment of disease resistance
09:25 - 09:50	Chuanyou Li Institute of Genetics and Developmental Biology, China Dissection of systemin/jasmonate-signaled defence responses in tomato
09:50 - 10:15	Seon-In Yeom Seoul National University, Korea A pepper hybrid proline-rich protein 1 (HyPRP1) is a negative regulator in defence response against pathogens but a positive regulator in cell death
10:15 - 10:30	Palchamy Kadirvel AVRDC: The World Vegetable Center, Taiwan Mapping of QTLs associated with resistance to a virus causing tomato yellow leaf curl disease (TYLCD) in tomato
10:30 - 10:45	Ken-Taro Sekine Iwate Biotechnology Research Center, Japan Isolation of N', one of the most famous plant virus resistance genes
10:45 - 11:15	Tea & Coffee Break

Session 5: Abiotic stress (Chair Andrew Thompson) - City Quay Suite

11:15 - 11:35 Andrew Thompson

University of Warwick, UK

Improving water use efficiency and water capture in tomato: transgenic and QTL approaches

11:35 - 11:55 Menachem Moshelion

Hebrew University of Jerusalem, Israel

The role of Solanaceae aquaporins in improving plant vigour, abiotic stress tolerance and yield production

11:55 - 12:10 Antonio Di Matteo

University of Naples "Federico II", Italy

Genetic control of fruit quality in tomato plants under water deficiency

12:10 - 12:25 Rachael Symonds

AVRDC: The World Vegetable Center, Taiwan

Genetic, physiological, and molecular approaches to improve drought tolerance in tropical tomato

12:25 - 12:40 Michel Ghanem

Université Catholique de Louvain, Belgium

Ameliorating the impacts of salinity on crop yield by altering root-to-shoot hormonal signalling

12:40 - 13:00 Jocelyn Rose

Cornell University, USA

New insights into the biosynthesis, functions and architecture of the tomato fruit cuticle through tissue specific RNA-seq profiling and other 'omics' platforms.

13:00 - 14:00 Lunch

14:00 - 15:30 Posters (even numbers) and coffee – Mezzanine level

Session 6: Translational Genomics and Molecular Breeding (Chair Mathilde Causse) - City Quay Suite

15:30 - 16:00 Ester van der Knaap

Ohio State University, USA

Classification of tomato varieties based on germplasm class, fruit shape category, fruit shape genes, and genetic clusters.

16:00 - 16:30 Walter de Jong

Cornell University, USA

SolCAP: developing SNP markers in elite germplasm for applied potato

breeding

16:30 - 16:50 Laura Toppino

CRA-ORL, Unità di Ricerca per l'Orticoltura, Italy

Gene-containment system based on artificial-microRNA mediated inactivation

of two general transcription factors in S.melongena L

16:50 - 17:10 Christiane Gebhardt

Max-Planck Institute for Plant Breeding Research, Germany

Natural variation in potato: Linking candidate gene variation to complex traits

17:10 - 17:30 Ilan Paran

The Volcani Center, Israel

Variation in pigment content in pepper fruit is associated with plastid

compartment size

20:30 - 22:30 Tomato / Potato/ Other Genome discussion meetings

Wednesday 8th September

Session 7a: Informatics and computational biology (Chair Klaus Mayer) - City Suite

09:00 - 09:20 Björn Usadel

Max Planck Institute of Molecular Plant Physiology, Germany

Sequencing of the S. pennellii genome as an approach to investigate diversity

in the tomato clade

09:20 - 09:40 Maria Ercolano

University of Naples "Federico II", Italy

A combined approach for tagging R-genes candidate loci in tomato genome

09:40 - 10:00 David Martin

University of Dundee, UK

Developing informatics resources for end users of the Potato Genome

Sequence Project data.

10:00 - 10:20 John P. Hamilton

Michigan State University, USA

Single nucleotide polymorphism identification from potato and tomato short

read transcriptome sequences

10:20 - 10:40 Dan Bolser

University of Dundee, UK

In silico approaches for anchoring the potato genome

Session 7b:Tools and emerging technologies (Chair Toni Granell) - Quay Suite

09:00 - 09:30 Diego Orzaez

Instituto de Biología Molecular y Celular de Plantas (IBMCP), Spain

Filling the fruit toolbox with new biotech tools: from transient expression to shared genetic pieces and beyond.

09:30 - 10:00 Jose M Jimenez

University of California Davis, USA

RNA-seq analysis of the shade avoidance response in tomato and its wild relatives

10:00 - 10:15 Tony Conner

New Zealand Institute for Plant & Food Research, New Zealand

Plant transformation using DNA minicircles without vector backbone sequences

10:15 - 10:30 Lorenzo Barchi

University of Torino, Italy

Construction of an intra-specific linkage map in eggplant and SNPs identification by next generation sequencing of RAD tags.

10:30 - 10:45 Rameshwar Sharma

University of Hyderabad, India

Eco-TILLING in tomato to unravel the hidden gifts of nature

10:45 - 11:15 Tea & Coffee Break

Session 8a: Tomato (Chair Ramesh Sharma) - Quay Suite

11:15 - 11:45 Cornelius Barry

Michigan State University, USA

Tomato trichomes as a model system for exploring diversity within specialised secondary metabolism

11:45 - 12:15 Rumyana Karlova

Wageningen University, Netherlands

Tomato APETELA2 functions in fruit development and in a ripening regulatory network together with CNR

12:15 - 12:30 Irene Romero De La Fuente

Plant Research International, The Netherlands

Searching for the genes involved in the production and release of flavourrelated tomato fruit volatiles

12:30 - 12:45 Yellamaraju Sreelakshmi

University of Hyderabad, India

Phototropin1: A new player in regulating the shelf life of tomato fruits

12:45 - 13:00 Maxim Itkin

Weizmann Institute of Science, Israel

The Tomato GAME1 Glycosyltransferase is Involved in the Metabolism of Steroidal Glycoalkaloids

Session 8b: Potato (Chair Mark Taylor) - City Suite

11:15 - 11:45 Caius Rommens

JR Simplot Company, USA

Potato genetic engineering: Adapting existing varieties to the emerging needs of the 21st century

11:45 - 12:15 Kåre Lehmann Nielsen

Aalborg University, Denmark.

Sequence tag based transcriptome analysis are providing valuable insight into the molecular responses underpinning differential yield as well as biotic and abiotic stress responses of different cultivars

12:15 - 12:30 Bjorn Kloosterman

Wageningen University, The Netherlands

An integrative -omics approach for studying potato tuber quality traits

12:30 - 12:45 Ray Campbell

SCRI, UK

Progress in our understanding of carotenoid accumulation in potato tubers

12:45 - 13:00 Gisella Orjeda

Universidad Peruana Cayetano Heredia, Peru

Construction and utilisation of a dense genetic map to anchor and organise the potato genome

Session 8c: Other Solanaceae species (Pepper, tobacco, eggplant, petunia etc) (Chairs Ilan Paran and Nikolai Ivanov) – Art Gallery (Mezzanine level)

11:15 - 11:45	Gregor Bindler Philip Morris International, Switzerland A genetic map for Nicotiana tabacum based on an F2 from Red Russian X Hicks Broad Leaf
11:45 - 12:15	Heejin Jeong Seoul National University, Korea The survey of natural variations and EMS induced mutations in Capsicum
12:15 - 12:30	Rachel Meyer City University of New York & New York Botanical Garden, USA Diversity of phenolic content in Asian eggplant landraces and near wild relatives
12:30 - 12:45	Thomas A. Colquhoun University of Florida, USA PhMYB4 fine-tunes the floral volatile signature of Petunia x hybrida
12:45 - 13:00	Aureliano Bombarely Gomez Cornell University, USA Phylogenomic Analysis of Cultivated Tobacco
13:00 – 14:00	Lunch
14:00 - 15:15	Lukas Mueller Boyce Thompson Institute, Ithaca, NY SGN workshop - Art Gallery (Mezzanine level)
15:30 19:30	Departure of excursion to Verdant Works and conference dinner Reception and conference dinner at Guthrie Castle

Thursday 9th September

Session 9: Metabolomics / Proteomics (Chair Alisdair Fernie) - City Quay Suite

09:00 - 09:30 Sonia Osorio

Max-Planck-Institut fur Molekulare Pflanzenphysiologie, Germany

The chemical composition underlying Brix

09:30 - 10:00 Asaph Aharoni

Weizmann Institute of Science, Israel

TAGL1 and ORR impinge on ripening and carotenoid metabolism in tomato

10:00 - 10:15 Ryan McQuinn

Cornell University, USA

Apricot (at/at): A novel ripening regulator controlling antioxidant accumulation in *Solanum lycopersicum* (cv. Ailsa craig)

10:15 - 10:30 Lukas Müeller

Cornell University, USA

Connecting the Solaneceae genome to the metabolic networks via SolCyc and MetaCyc

10:30 - 10:45 Mireille Faurobert

INRA Montfavet, France

"Genetical Proteomics" to tomato fruit quality

10:45 - 11:15 Tea & Coffee Break

Session 10: Functional Genomics and Systems Biology (Chair Koh Aoki) - City Quay Suite

11:15 - 11:40 Takayuki Tohge

Max-Planck-Institut fur Molekulare Pflanzenphysiologie, Germany

Elucidation of biosynthetic pathway of secondary metabolism for design of metabolomics-assisted breeding approaches

11:40 - 12:00 Antonio Granell

Instituto de Biología Molecular y Celular de Plantas (IBMCP), Spain

A fruit specific VIN1 GUS::GFP fusion reveals interspersed tomato fruit cells with an activated carbohydrate metabolism program

12:00 - 12:20 Wilco Ligterink

Wageningen University, The Netherlands

Putting omics tools to work: Unraveling the complex trait of seed quality in tomato by genetical genomics

12:20 - 12:40 Silin Zhong

Cornell University, USA

The dynamic transcriptomic and epigenetic landscape during tomato fruit development

SOL2010

12:40 - 13:00	Tamas Dalmay
	University of East Anglia, UK
	Integration of short RNA, mRNA and degradome profiling during fruit development
13:00 - 13:15	Hiroshi Ezura University of Tsukuba, Japan
	Introduction to SOL2011
	introduction to 30L2011
13:15 – 14:15	Lunch
14:30 – 15:30	Closing of SOL2010 including SOL open meeting
15:30	Tea & Coffee/ Departure