

Final Programme

Tuesday 20 February

4:30 pm – 6:00 pm	Registration/Information Desk open
6:00 pm	Welcome Karakia Welcome and Introduction Location: Lion Foundation Centre
6:15 pm	ISHS Introduction by ISHS Representative (Arif Atak) 6:25 – 6:30 pm Platinum sponsor's talk: Nour Abdrabbo, Sales Director, Unitec Location: Lion Foundation Centre
6:30 pm	PLENARY KEYNOTE: Kate Meyer Planetary Facts of a Kiwifruit Location: Lion Foundation Centre
7:00 pm – 8:30 pm	Welcome reception Welcome reception sponsor's video: United Fresh NZ Inc Location: Lion Foundation Centre

Wednesday 21 February

8:00 am	Registration/Information Desk open (closes 5:00 pm)
8:45 am	Housekeeping Location: Lion Foundation Centre Daily Catering Sponsor Isolcell Spa
9:00 am – 9:40 am	KEYNOTE: Francesco Spinelli Kiwifruit vine decline syndrome and other emerging and re-emerging biosecurity challenges (sponsored by Isolcell Spa, speaker introduction by Tito Spaldi) Location: Lion Foundation Centre

Session 1A: R&D stories

Chair: Sarah Pilkington (NZ)
Location: Lion Foundation Centre

Session 1B: Kiwifruit vine decline syndrome

Chair: Juliet Ansell (NZ)
Location: Mercury Arena Suites

9:45 am	Caihong Zhong Analysis of global kiwifruit research and application progress based on SCI journal papers	Marianne Avignon A new method to assess early kiwifruit decline with Sentinel-2A satellite images
10:00 am	Irena Obadovic Impact case study of kiwifruit maturity research for the New Zealand industry	Adriano Sofo A new systemic approach for promoting soil and plant health in G3 orchards to face kiwifruit vine decline syndrome (KVDS)
10:15 am	Birgit Ha Sensory research of kiwifruit: a journey	Shahjahan Kabir <i>Phytophthora</i> biodiversity in New Zealand kiwifruit
10:30 am	Tea/coffee break Location: Lion Foundation Centre	

Session 2A: Breeding & genetics 1

Chair: Dawei Li (CN)
Location: Lion Foundation Centre

Session 2B: Old and new threats to the kiwifruit industry

Chair: Francesco Spinelli (IT)
Location: Mercury Arena Suites

11:00 am		Joy Tyson Kiwifruit trunk disease in New Zealand
11:15 am	Ming Xu The breeding of the new kiwifruit cultivar 'Ruiyu' with green flesh	Erin Lane The threat of <i>Ceratocystis</i> species to the New Zealand kiwifruit industry
11:30 am	Ella Maxwell	Elodie Vandelle

	Establishing a new cultivar development programme in Italy	The high potential of essential oil emulsions in restricting <i>Pseudomonas syringae</i> pv: <i>actinidiae</i> virulence
11:45 am	Qian Zhang Breeding on red-flesh and yellow-flesh kiwifruit in Sichuan China	Stephen Hoyte Investigating a new Psa variant in New Zealand
12:00 pm	Guanglian Liao A sweet flavor kiwifruit (<i>Actinidia eriantha</i>) cultivar	Rebecca Burns Economic impact of fruit fly incursions in the Bay of Plenty
12:15 pm		Chandan Pal Optimising biocontrol for brown marmorated stink bug (BMSB) in kiwifruit
12:30 pm	Lunch break Location: Lion Foundation Centre	
	Session 3A: Rootstocks and water management Chair: Marco Mastroleo (IT) Location: Lion Foundation Centre	Session 3B: Fruit quality Chair: Nigel Gapper (NZ) Location: Mercury Arena Suites
1:30 pm	Kentaro Ono Trial of hydroponic cultivation of kiwifruit using wet tolerant rootstock, <i>Actinidia macrosperma</i>	Juan Pablo Zoffoli Degreening of the yellow-flesh kiwifruit (<i>Actinidia chinensis</i> cv. Dori) reduces chilling injury after storage at 0°C
1:45 pm	Arif Atak Covered kiwifruit cultivation on the axis of climate change	Talon Sneddon 'SunGold' kiwifruit ethylene production in response to controlled scuffing
2:00 pm	Alba Mininni Effects of kiwifruit rootstocks on physiological responses of grafting combinations under waterlogging stress	Jeremy Burdon Quality aspects of the kiwifruit core
2:15 pm	Bartolomeo Dichio Precision irrigation strategy based on a feedback adjustment mechanism by soil moisture monitoring in kiwifruit orchard	Athanassios Molassiotis Molecular basis of tissue-specific kiwifruit acclimation to post-harvest cold stress
2:30 pm	Juan Guillermo Cruz-Castillo Kiwifruit production in a tropical highland of Mexico-soil and climate	Maryam Alavi Conceptual and mechanistic framework for prediction of kiwifruit quality in storage over time
2:45 pm	Steve Green Water and nutrient balances on New Zealand's kiwifruit orchards	Chelsea Kerr Understanding the influence of postharvest storage conditions on kiwifruit using RNA-Seq transcriptome profiling
3:00 pm	Tea/coffee break Location: Lion Foundation Centre	
	Session 4A: Budbreak and dormancy Chair: Annette Richardson (NZ) Location: Lion Foundation Centre	Session 4B: Fruit biology Chair: Greg Clark (NZ) Location: Mercury Arena Suites
3:30 pm	Rongmei Wu DNA methylation reprogramming during the transition from winter dormancy to growth resumption in kiwifruit	Qiong Zhang Study of nutritional quality and functional genes in kiwifruit
3:45 pm	Charlotte Voogd Unravelling the genetic control of budbreak in kiwifruit (<i>Actinidia chinensis</i>) – analysis of a cold-responsive <i>FLC-like</i> gene	Yunliu Zeng Amyloplast biogenesis and differentiation in kiwifruit
4:00 pm	Luca Sebastiani Enhancing budbreak in kiwifruit: study of biological mechanisms involved in dormancy release and alternative potential products to the Hi Cane	Emma Sherman Flavoromics: a new approach to understanding kiwifruit flavour, colour and texture
4:15 pm	Pasquale Losciale Comparative estimation of chilling and heat requirement in five kiwifruit varieties and exploitation of this knowledge for the effective application of a breaking dormancy agent (Brecaut®) in cv Jintao®	Eriko Kuwada Explainable AI-based cis-decoding spots kiwifruit-specific fruit ripening regulatory networks
4:30 pm	Juliette Hansell Zespri Innovation Fund Launch – ZAG	Bryan Parkes Zespri Innovation Fund Launch – ZAG
4:40 pm	Poster session with drinks and nibbles	

6:10 pm Close for the day

Thursday 22 February

8:00 am Registration/Information Desk open (closes 1:30 pm)

	Session 5A: Breeding & genetics 2 Chair: Caihong Zhong (CN) Location: Lion Foundation Centre	Session 5B: Fruit quality evaluation tools Chair: Jeremy Burdon (NZ) Location: Mercury Arena Suites
8:50 am	Housekeeping Daily Catering Sponsor Start A Fresh	Housekeeping Daily Catering Sponsor Start A Fresh
9:00 am	Dawei Li High-quality genome research has significantly contributed to the domestication and exploration of kiwifruit in China	Magdalena Urbanska Towards fast, non-invasive, and objective quantification of the compression-induced fruit surface deformation
9:15 am	Yanchang Wang Re-understanding the scientific and breeding value of native Sect. <i>Leiocarpae</i>	Mo Li A review of non-destructive methods for kiwifruit skin assessment
9:30 am	Jinbao Fang Resistance, quality, cultivation and breeding in <i>Actinidia</i> species	Robert Valkenburg Comparison of methods for rapid non-destructive and destructive measurement of dry matter, SSC, and firmness in gold kiwifruit
9:45 am	Tianchi Wang Innovative approaches for fast breeding and improvement of <i>Actinidia</i> species	Jason Sun Non-destructive internal colour measurement of 'Zes008' kiwifruit
10:00 am	Jayanthi Nadarajan Ex situ conservation of Aotearoa New Zealand's <i>Actinidia</i> sp. genetic resources	Andrew McGlone Measuring the outer pericarp colour of red-fleshed kiwifruit – new tools with an old method
10:15 am		Sam Langdon-Arms The Soft Fruit Sensor (SFS) – a hand-held fruit firmness measuring device developed for the kiwifruit industry
10:30 am	Tea/coffee break Location: Lion Foundation Centre	
	Session 6A: Kiwiberries Chair: Bob Guthrie (US) Location: Lion Foundation Centre	Session 6B: Carbon, stress and productivity Chair: Simona Nardoza (NZ) Location: Mercury Arena Suites
11:00 am	Ringo Jinquan Feng Developing rationalised methods to measure and interpret firmness of kiwiberries	Minoo Mohajer The effect of shade during reserve accumulation on 'Zesy002' and 'Hayward' kiwifruit vine performance
11:15 am	Yukuo Li Multi-dimensional regulation of peel color in <i>Actinidia arguta</i>	Annette Richardson Growth, carbon acquisition and partitioning in shoots of three kiwifruit cultivars
11:30 am	Miaomiao Lin Exploration of mechanism underlying the freezing tolerance in <i>Actinidia arguta</i> by RNA-seq and metabolome	Nick Gould Effect of trunk girdling over three years on vine reserves, productivity and yield in <i>Actinidia chinensis</i> var. <i>chinensis</i> and <i>A. chinensis</i> var. <i>deliciosa</i>
11:45 am	Anne White Kiwiberries selections vary in susceptibility to skin damage	Lei-Ming Sun Genome-wide analysis of <i>NDR1/HIN1-like</i> genes in kiwifruit and functional analysis of <i>NHL17</i> homolog under biotic stresses
12:00 pm	Karangawai Paringatai-Hare Understanding chilling requirements in kiwiberries	Brydie Craven Vigour and distance along canes affects cell proportions in 'Hayward' kiwifruit canes
12:15 pm	Mauren Jaudal Uncovering the effect of knocking down sugar transporters in kiwiberries	Andrea Giovannini The effects of shading and reflective mulch on plant physiology and fruit growth in <i>Actinidia chinensis</i>
12:30 pm	Lunch break Location: Lion Foundation Centre Please collect your packed lunchbox to eat on the field trip coach	
1:00 pm	Industry field trip	

7:00 pm – Conference dinner
 11.30 pm Location: Lion Foundation Centre
 7:00 – 7:10 pm Housekeeping
 7:10 – 7:15 pm Dinner sponsor's talk: tbc, TOMRA Tim Grieve - Regional Sales Manager

Friday 23 February

8:00 am Registration/Information Desk open (closes 4:30 pm)

8:50 am Housekeeping
 Location: Lion Foundation Centre
 Daily Catering Sponsor Isocell

9:00 am – KEYNOTE: Takashi Akagi
 9:40 am Boy meets Girl, everywhere? Mysteries in neo-sex chromosome evolution in kiwifruit
 Location: Lion Foundation Centre

Session 7A: Controlling ripening

Chair: Juan Pablo Zoffoli (CL)
 Location: Lion Foundation Centre

Session 7B: Postharvest disease

Chair: Elodie Vandelle (IT)
 Location: Mercury Arena Suites

9:45 am	David Billing Anaerobic metabolism and controlled atmosphere storage of 'Hayward' kiwifruit	Francesco Spinelli Study of the dynamic of cultural microbiome of kiwifruit along post-harvest storage for the selection of beneficial microorganisms
10:00 am	Andrew East The importance and challenge of temperature control in the kiwifruit supply chain	Andrea Strano Preharvest application of ozone in <i>Actinidia chinensis</i> var. <i>chinensis</i> to control post-harvest losses caused by <i>Botrytis cinerea</i>
10:15 am	Yujie Han A review of technologies to maintain kiwifruit quality after controlled atmosphere storage	Takashi Akagi Evolutionary paths of a Japanese Islands-specific various polyploidy in kiwiberry (<i>Actinidia arguta</i>)
10:30 am	David Billing Dynamic controlled atmosphere storage of kiwifruit	
10:45 am	Tea/coffee break Location: Lion Foundation Centre	
11:30 am	Session WS1: Fruit Quality: mind the gap Frank Bollen and Jeremy Burdon (sponsored by Isocell Spa) Location: Lion Foundation Centre	Session WS2: Productivity Workshop - Carbon farming and Hi-Tech tools for climate resilience on orchard Steve Green and Marco Mastroleo (sponsored by Grochem) Location: Mercury Arena Suites
12:30 pm	Lunch break Location: Lion Foundation Centre	
	Session 8A: Flower biology Chair: Takashi Akagi (JP) Location: Lion Foundation Centre	Session 8B: Productivity Chair: Nick Gould (NZ) Location: Mercury Arena Suites
1:30 pm	Olivia Kelly Investigation into the transcriptional regulation of stigma death in <i>Actinidia chinensis</i>	Raimundo Cuevas Effect of biostimulant applications with UAV to avoid abiotic stress conditions
1:45 pm	Dinum Herath Mutagenesis of <i>AcCLV1</i> genes in kiwifruit: implications for shoot apical meristem and fruit development	Juan Guillermo Cruz-Castillo Establishment, in vitro multiplication and acclimatization of <i>Actinidia chinensis</i> adapted to tropical highlands
2:00 pm	Yongyan Angel Peng The role of <i>LEAFY</i> genes in floral formation in kiwifruit	Adam Friend The potential for rootstocks to devigorate kiwifruit polliniser scions
2:15 pm	Bo Yang Characterization of <i>Actinidia chinensis</i> <i>FD</i> genes and their role in kiwifruit flowering	Yan Wang Research and application of traditional Chinese medicine agricultural techniques in kiwifruit
2:30 pm	Annette Richardson The fate of inflorescence meristems during their transition to inflorescences at anthesis	Simona Nardoza Towards sustainable and climate resilient yield in kiwifruit
3:00 pm	Prizegiving for Young Mind Awards (sponsored by Isocell Spa) Location: Lion Foundation Centre	

3:15 pm Conference Closing
Closing Karakia
Location: Lion Foundation Centre

3:30 pm – ISHS Business Meeting (ISHS Members Only)
4:00 pm Location: Lion Foundation Centre

Saturday 24 February

9:00 am – Post-conference tour
5:00 pm