

Thursday 28th November

10:30 **Hub-specific welcome and introductions**

Michael McManus Award - Chair: Lynette Brownfield (Lincoln)

11:15	Auckland	Luke Luo	Transcriptomic analysis implicates ABA signaling and carbon supply in the differential outgrowth of petunia axillary buds
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Auckland Hub Flash Talks – Chair: Soledad Perez Santangelo (Auckland)

11:40	Auckland	Revel Drummond	Can transient leaf assays be used to quantitatively assess Cas enzyme activity?
11:45	Auckland	Sarah Philip-Wright	ChatGPT, make my plants better! Testing RFdiffusion-designed binding proteins to alter plant hormone signalling and shape
11:50	Auckland	Nishadi Liyanage	Decoding the Kiwifruit Flowering Fate
11:55	Auckland	Ingrid Lindeman	Dawn Light Composition Impacts Perennial Crop Growth in Controlled Environment Agriculture
12:00	Auckland	Erikan Baluku	Beyond Dormancy: How Resurrection Plants Rewire Their Organelles to Stay Alive
12:05	Auckland	Allan Wu	Tales from the TEM: building a 3D model of chloroplast biogenesis one stack at a time

12:15 **Lunch**

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NZ Hubs Session 1 – Chair: Nick Albert (Palmerston North)

1:30	Auckland	Shin-Mei Yeh	NbPTR1 confers resistance against <i>Pseudomonas syringae</i> pv. <i>actinidiae</i> in kiwifruit
1:45	Auckland	Cristian Lee-Hsiao	Analysis of role of <i>MtFULa</i> and <i>MtFULb</i> in <i>Medicago</i> growth, flowering and seed barrel yield
2:00	Auckland	Hilary Ireland	<i>Gillenia trifoliata</i> provides a unique perspective on apple and Rosaceae
2:15	Palmerston North	Deny Kumar Shrestha	Genome assembly and annotation of host-specific necrotrophic fungus <i>Ciborinia camelliae</i> <i>ICMP19812</i>
2:30	Palmerston North	Rebecca Yorker	Flavones in <i>Marchantia polymorpha</i> : Discoveries that tell a story of evolution
2:45	Palmerston North	Rama Dhanushkodi	The <i>Medicago truncatula</i> - rhizobium symbiosis confers drought tolerance to the host
3:00	Palmerston North	Greg Dawson	Legume nitrogen fixation: exploring the genetic basis of inhibition by nitrate fertilisers (Flash Talk)
3:05	Afternoon Tea		

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ASPS & NZSPB joint Awards

3.30 **Opening comments:** Martha Ludwig and Lynette Brownfield

NZSPB Roger Slack Award

David Chagne

Genomics for restoring a critically threatened tree species in the rohe of Rangitāne o Manawatū

ASPS Goldacre Award

Peter Crisp

ASPS Education Award

Ashley Jones & Benjamin
Schwessinger

4.45 **Break**

NZSPB Elected Fellow to
the NZ Royal Society

Andy Allan

Fast flowering as a tool for gene discovery in woody perennials

Kevin Davies

The Evolution Of Flavonoid Biosynthesis

ASPS Jan Anderson Award

Jenny Mortimer

ASPS JG Wood Lecture

Sergey Shabala

6.15 **Closing comments**

6:45 **Dinner**

Friday 29th November

NZ Hubs Session 2 - Chair: Paul Dijkwel (Palmerston North)

8:40	Palmerston North	Azadeh Esfandiari Vishant Tomar	Movement of <i>in vitro</i> kiwifruit plants: Strategic measures to overcome Psa-3 Challenges
8:55	Palmerston North	Gabriela Ricardo	Using common plant secondary metabolites to disrupt the infection process of Sclerotiniaceae fungi <i>Botrytis cinerea</i> and <i>Ciborinia camelliae</i>
9:10	Palmerston North	Claudia Wiedlow	Intergeneric hybrids between apple and pear
9:25	Lincoln	Astra Heywood	Climatic influences on genetic differentiation in bilberry (<i>Vaccinium myrtillus</i>) populations from Europe
9:40	Lincoln	Angus Heslop	Trait response in diverse red clover germplasm populations under water stress and three-year field trials.

Friday 29th November

Lincoln Hub Flash Talks 1 – Chair: Rebecca Bloomer (Lincoln)

9:55	Lincoln	Michelle Thompson	A potential role for ellagitannins found in grapevine rootstocks as a deterrent against feeding by Citrophilus mealybugs (<i>Pseudococcus calceolariae</i>)
10:00	Lincoln	Ayodele Fakoya	Progress towards the development of a non-heading perennial ryegrass (<i>Lolium perenne</i> L.) cultivar
10:05	Lincoln	Madison Hall	Need for speed: Investigating the role of CO variants in ryegrass flowering time variation
10:10	Lincoln	Baeli Spedding-Devereux	Assessing CRISPR/Cas13 as a tool for plant biology
10:15	Lincoln	Jihwi Jang	Determination of nitrate (NO ₃ ⁻) toxicity against <i>Pinus radiata</i> : a pre-requisite to determine NO ₃ ⁻ phytoremediation potential of P. radiata in NO ₃ ⁻ contaminated soils
10:20	Morning Tea		

Friday 29th November

NZ Hubs Session 3 – Chair: Simona Nardoza (Auckland)

10:45	Auckland	Catrin Guenther	Phytohormone metabolism modulates the pre-climacteric phase of ‘Hass’ avocado (<i>Persea americana</i> Mill.) fruit after harvest
11:00	Auckland	Mauren Jaudal	Characterisation of sugar transporters in kiwiberry
11:15	Auckland	Rubina Jibran	Strigolactone precursor biosynthesis genes regulate asexual reproductive growth in <i>Marchantia polymorpha</i>
11:30	Lincoln	Lun Tan	Increasing <i>Vitis vinifera</i> ‘Sauvignon Blanc’ Transformation Efficiency of Tissue Culture Through Somatic Embryogenesis Using BabyBoom as a Candidate Gene
11:45	Lincoln	Claudia Meisrimler	Activation and translocation of plant membrane-associated NAC transcription factors

Lincoln Hub Flash Talks 2 Chair: Christelle Andre (Auckland)

12:00	Lincoln	Storm Voyce-McCulloch	It’s all about self-love: understanding self-incompatibility in Clover
12:05	Lincoln	Bea Fulton	Using Confocal Microscopy to Study Ovule Development in Mutant Apomicts
12:10	Lincoln	Lei Wang	Enhancing Development of Sauvignon Blanc Embryos
12:15	Lincoln	Nicole Samuel	Investigations into pollen protein interactions

12:30	Finish
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