

Plant Dormancy, Perth, 2023

Welcome to the 7th International Plant Dormancy Symposium, 12-15th September.

The University of Western Australia is situated by Derbal Yerrigan (Swan River), on the land of the Whadjuk Nation. Our main campus sits on the sacred soil where Western Australian kaartdijin (knowledge) began.

It is of immense importance that we recognise and value Indigenous peoples' rights, knowledge, culture and values. Their cultural narrative and connection to place, is a connection that we all share.

Venue: The University Club, The University of Western Australia, Hackett Drive, Crawley 6009, WA.

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Map: <https://goo.gl/maps/BrFaqShqLQJ1frLh7>

Public transport: Enter your start location and "Reid Library Crawley" as your destination address here <https://www.transperth.wa.gov.au/Journey-Planner> (walk towards the river from the library to find the University Club on your left). The buses do take cash, or you can obtain a Smartider card from venues listed here <https://www.transperth.wa.gov.au/smartrider/types-of-smartrider/standard-smartrider>. The SmartRider card works on buses and trains so is handy if you wish to explore a little.

Parking: There is limited paid parking adjacent the venue and on Hackett Drive. Arrive by 8am to ensure a park. Alternatively take public transport.

Climate: September is the beginning of Spring, wildflower season. The average daytime maximum temperature ~19 °C, nightly minimum ~6 °C. There are ~12 rainy days in September, with monthly total of ~50 mm. The water temperature is ~17 °C if you're thinking of a dip in the ocean.

Top tourism suggestions:

- King's Park, our Botanic Parks and Gardens, which coincidentally has its annual festival during the conference, as well as a number of guided or self-guided walks. See <https://www.bgpa.wa.gov.au/kings-park/events/walks-and-tours>
- Celebrate indigenous culture at the WA Museum Boola Bardip <https://visit.museum.wa.gov.au/>
- Fremantle, our oldest café district, with a vibrant cashed-up hippie feel. <https://www.westernaustralia.com/us/places-to-visit/perth-and-surrounds/fremantle>
- Get to the beach <https://www.westernaustralia.com/us/places-to-visit/perth-and-surrounds/perth-beaches>
- Get a Quokka selfie on Rottnest Island <https://www.westernaustralia.com/us/places-to-visit/perth-and-surrounds/rotnest-island>

JEXBOT Special Issue: The diversity of developmental quiescence and dormancy in plants
<https://tinyurl.com/PlantDormancy> Due 31st August

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Tree Physiology



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Plant Dormancy, Perth, 2023

11th September 2023, The University Club

Hit the socials: #PlantDormancyPerth

5:00 PM	Welcome To Country
5:30 PM - 7:00 PM	Welcome Reception, registrations

12th September 2023, The University Club

Hit the socials: #PlantDormancyPerth

8:20 AM		<i>registration</i>	
8:40 AM	Conference opening by Prof Kadambot Siddique		
Session 1: Chair: Mick Considine		Environment, Ecology and Evolution	
9:00 AM	45 min	<u>Keynote:</u> David Jackson	To Grow or Not to Grow: Control of Meristem Fate in Maize
9:45 AM	30 min	Eike Luedeling	Modeling Tree Dormancy with the PhenoFlex Framework
10:15 AM	30 min	<i>coffee</i>	
10:45 AM	30 min	Steven Penfield	Role of Bud Dormancy in the Control of Flowering Time in Winter Annuals
11:15 AM	30 min	Janice Cooke	Identifying Drivers of Foliar Toughness During White Spruce Spring Bud Burst: Implications for the Phenological Window of Opportunity of Herbivores
11:45 AM	30 min	Dani Eshel	Chilling Induces Sugar and ABA Accumulation that Antagonistically Signals for Symplastic Connection of the Dormant Bud
12:15 PM	60 min	<i>lunch</i>	
Session 2: Chair: Steve Penfield		Environment, Ecology and Evolution	
1:15 PM	20 min	Fucheng Wang	Dormancy of Trees Shows Adaptive Variation Along the North-South Gradient
1:35 PM	20 min	Jeremy Curry	Grain Dormancy and Grain Moisture Interact to Induce a Transient Period of Elevated Susceptibility to Pre-Harvest Sprouting in Wheat Under Cool Maturation Conditions in Western Australia
1:55 PM	20 min	Al Kovaleski	Cold Hardiness is a Covariant in Dormancy Assays
2:15 PM	20 min	Jinbin Zheng	Restraining Dormancy Release: Climate Warming Delays Leaf Unfolding of Pecan in Southeastern China
2:35 PM	20 min	Taylor Wass	Computational Modelling Approach to Understanding Shoot Architecture Including Plant Branching and Flowering
2:55 PM	30 min	<i>coffee</i>	
3:25 PM	30 min	Etti Or	HC Activate Coordinated Regulation of ABA Metabolism and Macromolecules Catabolism in Grape Buds
3:55 PM	20 min	John Considine	The carbon cycle and plasticity of sink allocation in grapevines growing in diverse climatic environments
4:15 PM	20 min	Xingyou Gu	Three Types of Seed Dormancies and Evolutionary and Regulatory Mechanisms in Rice
4:35 PM	10 min	Mick Considine	Primer: international research collaborations
4:45 PM	120 min	<i>posters</i>	



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13th September 2023, The University Club

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Session 3: Chair: Chengdao Li			Genetics and Epigenetics
8:30 AM	45 min	<u>Keynote:</u> Hikaru Sato	ISSS prize talk: Analysis of the Relationships Among Gene Imprinting, Seed Dormancy and Reproductive Barriers
9:15 AM	30 min	Hisayo Yamane	Epigenome Modification is Involved in the Rosaceae DAM-Mediated Bud Dormancy Control?
9:45 AM	30 min	<i>coffee</i>	
10:15 AM	30 min	Jirui Wang	Genetic Variation of TaMyb10 that Affects Both Seed Color and Germination of Wheat
10:45 AM	30 min	Charlotte Voogd	A Cold-Responsive FLC-Like Gene in Kiwifruit is Regulated by Epigenetic Mechanisms to Control Budbreak
11:15 AM	30 min	Tzu-Fan Hsiang	The High-Quality Genome Assembly of Prunus Mume 'Nanko' Reveals a Chromosomal Inversion Associated with Natural Variation in Dormancy and Bud Break
11:45 AM	30 min	Michael Campbell	Transcriptional and Metabolic Analysis of Potato Tubers During Endo-Dormant to Eco-Dormant Shift and After Exposure to the Sprout Regulating Compound 1,4-Dimethylnaphthalene
12:15 PM	60 min	<i>lunch</i>	
Session 4: Chair: Hisayo Yamane			Genetics and Epigenetics
1:15 PM	20 min	Mathieu Fouche	Molecular Analysis of Bud Dormancy Regulation by Temperature in Sweet Cherry
1:35 PM	20 min	Brezo Mateos	Unravelling the Transcriptomics of Winter Dormancy in Raspberry
1:55 PM	20 min	Munever Dogramaci	Changes in Gene Expression and Stress Protective Pathway Regulations of Potato Tubers After Sprout Inhibitor Treatments
2:15 PM	20 min	Yuxin Fu	Spatial Mapping Revealed the Spatiotemporal Expression of Genes During Wheat Grain Development and Expression Variation in Response to Heat Stress
2:35 PM	120 min	<i>coffee/ posters/ tours</i>	



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Session 5: Chair: Etti Or			Metabolite and Hormone Signalling
8:30 AM	45 min	<u>Keynote:</u> Yvonne Stahl	The Molecular Regulation of Stem Cell Quiescence in Plant Meristems
9:15 AM	30 min	Christine Beveridge	Lessons from a Century of Apical Dominance and Shoot-Branching Research
9:45 AM	30 min	<i>coffee</i>	
10:15 AM	30 min	Christine Foyer	WHIRLY proteins maintain seed longevity by effects on seed oxygen signalling during imbibition
10:45 AM	30 min	Philip Brewer	The Influence of Strigolactones on Barley
11:15 AM	30 min	Franziska Fichtner	The Sugar Signalling Metabolite Trehalose 6-Phosphate is a Key Signal in Regulating Plant Development
11:45 AM	30 min	Jun Liu	Biosynthesis and Signalling of Ethylene and their Regulation on Seed Germination and Dormancy
12:15 PM	60 min	<i>lunch</i>	
Session 6: Chair: Christine Foyer			Metabolite and Hormone Signalling
1:15 PM	20 min	Mick Considine	Oxygen and ROS/Redox as Regulators of Bud Outgrowth
1:35 PM	20 min	Hannah Drieberg	Exploring the Dormancy Puzzle: Shedding Light on the Role of ABA in Shoot Branching
1:55 PM	20 min	Chenyu Rong	Nitrogen Promotes Tiller Bud Outgrowth by Influencing Cytokinin Biodegradation and Strigolactone Biosynthesis in Rice
2:15 PM	20 min	Ilse Kranner	Enigmatic Lichens: A Symbiosis Based on Desiccation Tolerance
2:35 PM	20 min	Xiaojian Xia	Interaction Between BZR1 and Histone Deacetylase SRT1 Promotes Lateral Bud Growth in <i>Solanum lycopersicum</i>
2:55 PM	30 min	<i>coffee</i>	
3:25 PM	45 min	<u>Keynote:</u> Markus Schwarzlander	The role of mitochondrial energy metabolism in driving and regulating germination
4:10 PM	20 min	Aneta Ivanova	Just Add Water: Mitochondrial Activity and Biogenesis During Resurrection of <i>Haberlea rhodopensis</i>
4:30 PM	20 min	Brian Coad	Improving germination success for Australian native plant seeds using plasma treatments
4:50 PM	20 min	Emmanuel Kalu	Efficiency of Different Pre-Treatment on Prosopis Africana Seed Dormancy
5:10 PM	50 min	<i>Business meeting</i>	
6:00 PM - 10:00 PM		<i>Conference dinner</i>	

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15th September 2023, The University Club

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Session 6: Chair: Dani Eshel			Metabolite and Hormone Signalling
9:00 AM	45 min	<u>Keynote:</u> Benedicte Wenden	Tree Physiology prize talk: Exploring the ABA Signalling Pathway for Molecular-Based Phenological Modelling of Bud Dormancy
9:45 AM	30 min	Elizabeth Dun	Flowering Signals Modulate Bud Outgrowth in Pea and Reveal a Pivotal Role of the Strigolactone Signalling Pathway
10:15 AM	30 min	<i>coffee</i>	
10:45 AM	30 min	Kai Shi	Emerging Function of G Protein in Shoot Apical Meristem Development and Yield Formation in Tomato
11:15 AM	30 min	Francois Barbier	Sugar Starvation Signalling Maintains Axillary Bud Dormancy to Inhibit Shoot Branching
11:45 AM	30 min	Stephanie Conway	How is Early Bud Growth Driven at the Cellular Level?
12:15 PM	30 min	Kris Kramer-Walter	Exogenous Sucrose Increases Dormant Kiwifruit Cane Carbohydrate Concentrations But Does Not Increase Floral Productivity
12:45 PM	15 min	<i>closing comments</i>	
	60 min	<i>lunch</i>	

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