



Sunday 4 November 2018			
PRE-CONFERE	PRE-CONFERENCE WORKSHOPS		
Time TBC	Species Identification in Metagenomic Data Sets: From the Clinic to the Ocean		
Time TBC	Galaxy Australia – The Free Genetics and Genomics Analysis Platform		
1400 - 1800	Conference Registration Open		
OPENING ORA	OPENING ORATION (Chair: Vikki Marshall)		
1700 - 1800	Guest Speaker - Kevin White		
1800 - 2000	Welcome Reception & Trade Exhibition – Stamford Grand		
Monday 5 November 2018			
0730 - 1730	Registration Desk Open		
0800 - 1800	Trade Exhibition Open		
0845 - 0900	Official Welcome and Conference Opening		
SESSION 1: An	cient DNA & Forensics (Chairs: Laura Weyrich & TBD)		
0900 - 0945	Keynote Speaker - Ludovic Orlando  Tracking Six Millenia of Horse Selection, Admixture and Management with Complete Genome Time-Series		
0945 - 1010	Invited Speaker - Sallyann Harbison Challenges and opportunities in transforming Forensic DNA genotyping to massively parallel sequencing technology		
1010 – 1035	Invited Speaker - Jeremy Austin Using hybridisation enrichment and next generation sequencing for identification of highly degraded human remains.		
1035 - 1105	Morning Tea & Trade Exhibition		
1105 – 1130	Invited Speaker - Michael Knapp  New technologies for an old problem - the role of ancient DNA and functional genomics in bird conservation		
1130 - 1150	Invited abstract - Vanessa Hayes  Analysis of 1025 L0-mitogenomes suggest a geographical divide shaped early human dispersals within Southern Africa		
1150 - 1200	Lightning Poster Session 1		
1200 - 1300	Lunch & Trade Exhibition		
SESSION 2: Bio	pinformatics (Chairs: Andreas Schreiber & Kat Pillman)		
1300 - 1345	<b>Keynote Speaker - Taru Tukiainen</b> Genomic approaches to decipher the extent and impacts of X chromosome inactivation		
1345 - 1410	Invited Speaker - Nicole Cloonan TBA		
1410 - 1430	Invited Abstract - Harriet Dashnow STRetch: detecting and discovering pathogenic short tandem repeat expansions		
1430 - 1450	Invited Abstract - Hyun Jae Lee Integrated pathogen load and dual transcriptome analysis of systemic host-pathogen interactions in severe malaria		
1450 - 1510	Invited Abstract - Hardip Patel		





	National Centre for Indigenous Genomics	
1510 - 1530	Invited Abstract - Natalie Twine  Big Data Technologies Enables Distant Relationship and Disease Variant Discovery in ALS	
1530 - 1630	Poster Session 1 & Afternoon Refreshments	
SESSION 3: New Technologies Part 1 (Chairs: Mark Van der Hoek & Vikki Marshall)		
1630 – 1700	BGI sponsored Keynote - Radoje Drmanac	
	DNA Nanoballs and Single-Tube LFR: Affordable "Perfect" Genome Sequencing	
1700 - 1720	Invited Abstract - Quentin Gouil	
1700 - 1720	Reconstructing haplotyped methylomes with long-read sequencing for fine dissection of imprinting in mice	
1720 - 1740	Invited Abstract - Martin Smith  Massively multiplexed targeted long-read single cell sequencing for deep phenotyping of tumour and immune cell repertoire	
1740 - 1800	Invited Abstract - Eva Chan Cool things that can be done with Optical Mapping	
1800 - 2000	Student Night	
1800 - 2100	VIP Function	





Tuesday 6 November 2018			
0730 - 1800	Registration Desk Open		
0800 - 1800	Trade Exhibition Open		
0850 - 0900	Welcome to Day Two		
SESSION 4: New Technologies Part 2 (Chairs: Mark Van der Hoek & Vikki Marshall)			
0000 0045	Keynote Speaker - Marlon Stoeckius		
0900 - 0945	CITE-seq: Highly multiplexed simultaneous measurement of epitopes and transcriptomes in single cells		
0945 - 1010	Invited Speaker - Ryan Lister		
4040 4040	Dissecting plant development at single cell resolution		
1010 - 1040	Morning Refreshments & Trade Exhibition		
SESSION 5: Can	cer (Chairs: Deb White & TBD)		
1040 - 1125	Keynote Speaker - Kevin White		
	From Petabytes to Molecular Insights: Building a System for Precision Medicine		
1125 – 1145	Invited Abstract - Sujanna Mandal The super enhancer-driven long noncoding RNA IncNB promotes neuroblastoma tumorigenesis		
	Invited Abstract - Katherine Pillman		
1145 - 1205	MicroRNAs regulate large-scale alternative splicing in cancer by controlling the RNA-binding protein		
	Quaking		
1205 – 1215	Lightning Poster Session 2		
1215 - 1315	Lunch & Trade Exhibition		
1015 :5:5	Invited Speaker - Nic Waddell		
1315 – 1340			
1315 – 1340	ТВА		
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1340 - 1400	TBA Invited Abstract - Sunny Wu		
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Wednesday 7 November 2018		
0730 - 1730	Registration Desk Open	
0800 - 1300	Trade Exhibition Open	
0855 - 0900	Welcome to Day Three	
SESSION 7: Plants (Chairs: Matthew Gilliham & Rakesh David)		
0900 - 0945	Keynote Speaker - Jim Haseloff TBA	
0945 - 1010	Invited Speaker - Jacqueline Batley Investigating the Role of Structural Variation in Brassica Disease Resistance	
1010 - 1030	Invited Abstract - Agnieszka Golicz Roles of long non-coding RNAs in Plant Sexual Reproduction	
1030 - 1100	Morning Refreshments & Trade Exhibition	
1100 - 1125	Invited Speaker - Rachel Burton Genome Sequencing, Assembly and Annotation of the Industrially Useful Plant Plantago ovata	
1125 - 1145	Invited Abstract - Michael Roach Population sequencing reveals clonal diversity and ancestral inbreeding in the grapevine cultivar Chardonnay	
1145 - 1205	Invited Abstract – Yayu Wang Functional Structure and Association of Root Microbiome with Foxtail Millet Yield Unravelled by Ultra- Deep Metagenomic Sequencing	
1205 - 1305	Lunch & Trade Exhibition	
SESSION 8: Metagenomics (Chairs: Renee Smith & Anthony Borneman)		
1305 – 1350	Keynote Speaker - Elizabeth Dinsdale  Mosaic of microbes: Investigating the involvement of marine microbiomes in the life and death of kelp forests	
1350 – 1415	Invited Speaker - James Paterson A TCE contaminated aquifer reveals a Piggyback-the-Persistent viral strategy	
1415 – 1440	Invited Speaker - Michael McDonald  Tracking evolution in experimental populations of microbes using time-resolved whole genome sequencing	
1440 – 1500	Invited Abstract - Alicia Byrne A genomic autopsy of perinatal death	
1500-1520	Invited Abstract - Samuel Forster Genome based metagenomic analysis using an extensive human gastrointestinal culture collection	
1520 – 1545	Invited Speaker - Gene Tyson Expanding our view of microbial communities in thawing permafrost	
1545 – 1615	Awarding of Prizes, 2019 Conference Launch and Conference Close	

The 2018 AGTA Conference reserves the right to amend or alter any advertised details relating to dates, program and speakers if necessary and without notice, as a result of circumstances beyond their control. All attempts will be made to keep any changes to an absolute minimum.