

Program Overview

Monday July 7th

9.00-10.00	Opening Address and Plenary 1 (Webster Lecture Theatre) Aaron Darling <i>Toward population genetics of dark matter in the microbial universe</i>		
10.00-10.30	Morning Tea		
10.30-12.30	Concurrent Symposia: Session 1		
	Symposium 1a Bioinformatics and Genomics (Carne Lecture Theatre) Chairs: Aaron Darling, Claire Wade	Symposium 1b Adaptation (Clunies Ross Lecture Theatre) Chairs: Ary Hoffmann, Beata Ujvari	Symposium 1c Host-Parasite/ Symbiont interaction (Gunn Teaching Room) Chairs: Mark Tanaka, Victoria Morin-Adeline
10.30	Ashley Farlow <i>The 10 megabases of Arabidopsis centromeric sequence behave as a single locus over evolutionary time</i>	Ary Hoffmann <i>Climate change and evolutionary adaptation: where are we?</i>	Mark Tanaka <i>Timing of antimicrobial use influences the evolution of antimicrobial resistance during disease epidemics</i>
11.00	Asa Perez-Bercoff <i>Genome sequencing, assembly and annotation of S. aurantiacum</i>	Kathryn Hodgins <i>The genomic basis of local adaptation to climate in conifers</i>	Victoria Morin-Adeline <i>One parasite and two unexpected hosts: Using transcriptomics to understand host-parasite adaptations of two strains of Trichomonas foetus</i>
11.15	Mani Grover <i>Novel therapeutics for complex diseases from genome-wide association data</i>	Paul Rymer <i>Effective population size and migration along a steep environmental gradient: Insights from niche models and population genomics</i>	Timothy L Sutton <i>Contrasting dispersal and inbreeding in a fig-pollinating wasp and its parasitoid</i>
11.30	Bianca Haase <i>Scottish Fold cats: an animal model for human digital arthropathy</i>	Hernan Morales <i>Exploring full mitochondrial genomes in search of signatures of positive and purifying selection</i>	Aidan Hall <i>Coevolution between bacterial endosymbionts and their psyllid hosts of the Cardiaspina genus (Hemiptera: Psyllidae)</i>
11.45	Hardip Patel <i>RNAxex: A framework for RNA data mining and visualization</i>	Simon Baxter <i>Evolution of a butterfly mimicry locus through modular regulation of an input-output gene</i>	Michaela DJ Blyton <i>Functional genotypes are associated with commensal Escherichia coli strain abundance within host individuals and populations</i>
12.00	Tony Papenfuss <i>De novo assembly of the scabies mite mitochondrial genome from metagenomic sequencing reveals haplotype structuring and relationship between scabies varieties</i>	Andrew Young <i>Incest vs. abstinence: reproductive tradeoffs between mate limitation and progeny fitness in a self-incompatible invasive plant.</i>	Peter Kern <i>A new molecular sexing technique for butterflies – does Wolbachia really feminise genetic males in Eurema?</i>
12.15	Sham Nair <i>The dynamic genome: allelic variations in the genomes of single cells from an invertebrate metazoan</i>	Michael Whitehead <i>Sexual mimicry in sympatric orchid species promotes outcrossing, multiple paternity and reproductive isolation.</i>	Joshua Christie <i>Sex, slime and mitochondria</i>
12.30-1.30	Lunch		

1.30-3.30	Concurrent Symposia: Session 2	
	Symposium 2a Population genetics (Carne Lecture Theatre) Chairs: John Sved, Belinda Wright	Symposium 2b Immunogenetics (Clunies Ross Lecture Theatre) Chairs: Catherine Grueber, Janine Deakin
1.30	John Sved <i>Queensland fruit fly and the Lewontin-Birch introgression hypothesis</i>	Rehana Hewavisenti <i>The Identification and Characterisation of Immune Genes in the Milk Transcriptome of the Tasmanian devil (Sarcophilus harrisii)</i>
1.45	Michaela Blyton <i>Maternal lineages best explain the associations of a semi-social marsupial in the presence of fine-scale genetic structure</i>	Catherine Grueber <i>Studying immunogenetic diversity to aid the conservation of threatened species.</i>
2.00	Collin Ahrens <i>Population structure of the rare clonal Senecio macrocarpus in the grasslands of Victoria</i>	Jian Cui <i>Characterisation of Toll-like receptors in two bottlenecked species, Tasmanian devil and Koala</i>
2.15	Belinda Wright <i>A SNP-based approach to determining pedigrees and assessing genetic diversity in the Tasmanian devil insurance population.</i>	Jolene Sutton <i>Variation at innate immunity genes in Hawaiian honeycreepers</i>
2.30	Mark Richardson <i>Population genetics of the invasive northern Pacific seastar</i>	Hamutal Mazrier <i>Expression of the microRNA, mir-31, is reduced in leukocytes of dogs with atopic dermatitis</i>
2.45	Bill Sherwin <i>Population viability and major histocompatibility complex (MHC) genetic diversity of two dolphin populations in Western Australia</i>	Katrina M Morris <i>Characterisation of the Tasmanian devil immunome and identification of SNPs within devil immune genes</i>
3.00	Lee A Rollins <i>Selective replication of mitochondria at the edge of an expanding invasion</i>	Emma Peel <i>Cathelicidins in the Tasmanian devil (Sarcophilus harrisii)</i>
3.15	Florencia Camus <i>Sequence variation within the mitochondrial DNA affects patterns of gene expression in the mitochondrial transcriptome</i>	Elizabeth Jones <i>Novel Defensin Peptides of the Tasmanian Devil (Sarcophilus harrisii)</i>
3.30-4.00	Afternoon Tea	
4.00-5.00	Plenary 2 (Webster Lecture Theatre) Kenji Matsuura <i>Asexual queen succession system in termites: evolution and mechanism</i>	
5.00-7.00	Poster Session	
7.00-10.00	ECR Dinner	

Program Overview

Tuesday July 8th

9.00-10.00	Plenary 3 (Webster Lecture Theatre) Dianne Gleeson <i>How Robust is Species Detection using Environmental DNA?</i>	
10.00-10.30	Morning Tea	
10.30-12.30	Concurrent Symposia: Session 3	
	Symposium 3a Reptile and Amphibian genetics (Carne Lecture Theatre) Chairs: Jenny Graves, Camilla Whittington	Symposium 3b Developmental and Cellular genetics (Clunies Ross Lecture Theatre) Chairs: Richard Burke, Bianca Haase
10.30	Jenny Graves <i>Sex, Genomics and Epigenetics</i>	Adrian Moore <i>Genetic controls over neuron dendrite arbor shape: convergence on microtubules</i>
11.00	Matthew Brandley <i>Gene expression associated with the recent evolution of viviparity</i>	Richard Burke <i>Genetic Control of Cellular Zinc Distribution</i>
11.15	Chris Friesen <i>Persistent use of sperm stored over winter in multiply-mated female garter snakes</i>	Graham Thompson <i>Gene co-citation networks associated with worker sterility in honey bees</i>
11.30	Camilla M Whittington <i>Angiogenic genes in the skink uterus and the evolution of live birth</i>	Yee Lian Chew <i>Protein with tau-like repeats regulates neuronal aging and lifespan in C. elegans</i>
11.45	Sam Ryan <i>The evolution and conservation of the Major Histocompatibility Complex Class III region in Pogona vitticeps.</i>	Sebastian Judd-Mole <i>Functional Characterisation of Voltage Gated Chloride Channel Proteins in Drosophila</i>
12.00	Clare E Holleley <i>Sex chromosome markers reveal a rapid transition from genotypic to temperature dependent sex determination in the bearded dragon</i>	Waqar Ahmad <i>Dihydroipoamide dehydrogenase (DLD) as a potential therapeutic target for Alzheimer's disease</i>
12.15	Mette Lillie <i>Diversifying selection at the Major Histocompatibility Complex class II beta in the New Zealand endemic Hochstetter's frog, Leiopelma hochstetteri</i>	Joseph Nguyen <i>Examining the genetic and environmental influences on nicotinic acetylcholine receptor trafficking</i>
12.30-1.30	Lunch (GSA executive committee meeting)	

1.30-3.30	Concurrent Symposia: Session 4	
	Symposium 4a Landscape and Conservation genetics (Carne Lecture Theatre) Chairs Dianne Gleeson, Craig Sherman	Symposium 4b Gene expression and function (Clunies Ross Lecture Theatre) Chairs: Emily Remnant, Isobel Ronai
1.30	Bernd Gruber <i>LandGenReport - a landscape genetic tool to analyse the effect of landscape features on population structure using genetic data</i>	Simon M. Tierney <i>Eye gene transcriptomes of diving water beetles: a contrast of surface and subterranean photic niches</i>
1.45	Jackie Chan <i>Genetic management of harvest and restocking in Australian eastern king prawns</i>	Isobel Ronai <i>A role for apoptosis in worker sterility: gene expression in the plastic ovaries of the honey bee</i>
2.00	Adam P Cardilini <i>Understanding genetic variation across a heterogeneous landscape in an invasive species</i>	Tristan Stevens <i>Expressing the diamondback moth ABC transporter C2 in transgenic Drosophila causes susceptibility to Bt insecticidal toxin</i>
2.15	Floyd Reed <i>Genetically Engineering Underdominance for Species Conservation Applications in Hawai'i</i>	Llewellyn Green <i>Characterizing resistance and the potential for adaptation to a new diamide insecticide in D. melanogaster</i>
2.30	Anna J MacDonald <i>Species from faeces: predator scat metabarcoding in Tasmania</i>	Kathryn A Raphael <i>Comparative, quantitative transcriptomes in sympatric fruit fly species reproductively isolated by time of mating</i>
2.45	Craig Sherman <i>The South American seagrass Zostera chilensis, endangered or invasive?</i>	Jennifer Morrow <i>Expression patterns and transcriptome analysis of sex determination genes in Bactrocera fruit flies</i>
3.00	Carolyn J Hogg <i>Blending molecular genetics with pedigree data to breed endangered species</i>	Michelle W Pearce <i>The Drosophila melanogaster phospholipid flippase dATP8B is required for odorant receptor function</i>
3.15		Lalith K Dammannagoda <i>Expression patterns of selected digestive enzyme genes in the hepatopancreas of redclaw (Cherax quadricarinatus) fed two different carbohydrate sources</i>
3.30-4.00	Afternoon Tea	
4.00-5.00	Plenary 4 (Webster Lecture Theatre) Cath Suter <i>Epigenetic inheritance and the legacy of parental obesity</i>	
5.00-5.30	Jaime Vandenberg - Science and Technology Australia	
7.00-10.00	Conference Dinner	

Program Overview

Wednesday July 9th

9.00-10.00	Plenary 5 (Webster Lecture Theatre) Mike Bunce <i>The (genetic) book of dead; why deep-sequencing trace, degraded & ancient DNA is both interesting and useful</i>	
10.00-10.30	Morning Tea	
10.30-12.30	Concurrent Symposia: Session 5	
	Symposium 5a Phylogenetics I (Carne Lecture Theatre) Chairs: Simon Ho, Nathan Lo	Symposium 5b Cancer and Human Genetics (Clunies Ross Lecture Theatre) Chairs: Tony Papenfuss, Jenny Donald
10.30	Rob Lanfear <i>Improving phylogenetic analyses of large and small datasets</i>	Janine Deakin <i>Evolution of devil facial tumor disease chromosomes</i>
11.00	Sebastian Duchene <i>Comparing pacemaker models of genome evolution in mammals</i>	Anneke C Blackburn <i>Polymorphisms in Cyp2r1 and disruption of the vitamin D pathway associate with the SuprMam1 breast cancer susceptibility locus in mice</i>
11.15	Steve Donnellan <i>Invasion history of Black rats (Rattus rattus) in Australia - insights from mitochondrial and nuclear phylogeography</i>	Zhibo Gao <i>Identification of genomic alterations in oesophageal squamous cell cancer</i>
11.30	Fangzhi Jia <i>Testing methods for inferring population history from individual genome-scale sequences</i>	Robert Richards <i>WWOX, Chromosomal Fragile Site FRA16D Spanning Gene: its role in metabolism and contribution to cancer</i>
11.45	Carlos E. Gonzalez-Orozco <i>Phylogenetic regionalization: a new framework to support conservation biogeography</i>	Beata Ujvari <i>Anthropogenic selection enhances cancer evolution in Tasmanian devil tumours</i>
12.00	Charles Foster <i>Estimating the evolutionary timescale of flowering plants using complete chloroplast genome sequences</i>	Nicholas S Archer <i>Sweet Taste Gene Expression And Obesity: Is There A Link?</i>
12.15	Daej Arab <i>Phylogenetics and evolution of Australian Nasutitermitinae</i>	Robert Richards <i>RNA pathogenesis via Toll-like receptor-activated inflammation in expanded repeat neurodegenerative diseases</i>
12.30-1.30	Lunch (GSA 2014 AGM, Carne Lecture Theatre)	

1.30-3.30	Concurrent Symposia: Session 6	
	Symposium 6a Phylogenetics II (Carne Lecture Theatre) Chairs: Rob Lanfear, Nathan Lo	Symposium 6b Gene Regulation and Epigenetics (Clunies Ross Lecture Theatre) Chairs: Cath Suter, Hannah Nicholas
1.30	Simon Ho <i>Estimating evolutionary timescales using genomic data</i>	Alyson Ashe <i>Can immunity against viral infection be inherited epigenetically in <i>Caenorhabditis elegans</i>?</i>
1.45	Georgina M Cooke <i>A fish out of water: understanding the evolution of land-dwelling fish using contemporary analogues of a critical step in vertebrate evolution</i>	
2.00	Jun Tong <i>Estimating the evolutionary timescale for Dictyoptera</i>	Justin Bloomfield <i>Assembling the methylome of an oilseed Brassica</i>
2.15	Peter Unmack <i>Origins of Australian freshwater fishes</i>	Shafagh A Waters <i>DNA methylation: silencing sex chromosomes in amniote vertebrates</i>
2.30	Andrew Richie <i>Evaluation of the Generalised Mixed Yule-Coalescent method for species delimitation across multiple mitochondrial genes</i>	Emily Remnant <i>The dynamic DNA methylation cycle in honey bee development and reproduction</i>
2.45	Lars Jermiin <i>Mixture models of nucleotide sequence evolution, and the evolution of yeast genomes</i>	Matthew Hoe <i>SUMV-1 antagonizes the activity of synthetic <i>Multivulva</i> genes in <i>Caenorhabditis elegans</i></i>
3.00	Slavica Berber <i>Homeodomain interacting protein kinase (HPK-1) is required in the soma for robust germline proliferation in <i>C. elegans</i></i>	Anna Reid <i>The transcriptional repressor CTBP-1 functions in the nervous system of <i>Caenorhabditis elegans</i> to regulate lifespan</i>
3.15-4.00	Afternoon Tea	
4.00-5.00	Awards Chair: Kathy Belov	
4.00	Dong Wang (Catcheside Prize)	
4.20	Katie Ayers (Alan Wilton Award) <i>RNA sequencing reveals novel candidate sex determination genes in chicken embryonic gonads</i>	
4.50	Peter Dearden (Crozier Medal; Video) MJDWhite prize Best poster prize, Highly commended prize, Peoples Choice poster prize	