

Plant Diversity in the GCFR: From Genomes to Biomes

Schedule of Talks

DAY 1 -- July 20, 2015. Venue: Colophon Room, SANBI, Kirstenbosch

Time		Speaker	
7.45 - 8.15	Coffee / Tea		
8.15 - 8.30	Welcome	Carl Schlichting	Multi-dimensional hyperdiversity in the GCFR.
8.30 - 9.30	Keynote Address	Richard Cowling	Levyns' Law: a longitudinal gradient in the ecology and evolution of the Cape flora.
Session 1 : Phylogenetics and Diversification			
9.30 - 10.00	Talk 1	Jonathan Colville	Levyn's Law and the contemporary diversity patterns in the flora of the Cape of South Africa.
10.00 - 10.30	Talk 2	Félix Forest	Levyn's Law and the evolutionary diversity patterns in the flora of the Cape of South Africa
10.30 - 11.00	Tea Break		
11.00 - 11.30	Talk 3	Freek Bakker	<i>Pelargonium</i> phylogenetics & diversification: sampling and resolution in nested radiations.
11.30 - 12.00	Talk 4	Leanne Dreyer	What can understudied genus <i>Oxalis</i> tell us about the evolution of the Cape Flora?
12.00 - 12.30	Talk 5	Tony Verboom	Using dated plant phylogenies to resolve Neogene paleo-environmental evolution in the Greater Cape Floristic Region.
12.30 - 1.30	Lunch Break		
1.30 - 2.00	Talk 6	Nora Mitchell	Lost in a sea of genes: using anchored phylogenomics to understand evolutionary relationships in <i>Protea</i> .

2.00 - 2.30	Talk 7	Adrienne Nicotra	Postcard from the Australian cousins: the evolutionary ecology of Australian <i>Pelargonium</i> species.
2.30 - 3.00	Talk 8	Allan Ellis	Linking plant and insect diversity and diversification in the Cape Floristic Region.
3.00 - 3.30	Coffee / Tea Break		
Session 2: Genetic Variation and Adaptation			
3.30 - 4.00	Talk 9	Caroline Chong	Landscape genetic variation: the <i>Pelargonium</i> perspective
4.00 - 4.30	Talk 10	Timo van der Niet	Parallel adaptation to similar selective landscapes in <i>Erica plukenetii</i>
4.30 - 5.00	Talk 11	Rachel Prunier	Phylogeography and footprints of selection in <i>Protea repens</i>
5.00 - 5.30	Talk 12	Melis Akman	Climate gradients drive local adaptation via gene expression in South African sugarbush (<i>Protea repens</i>)
5.30 - 6.00	Talk 13	Jeremy Midgley	Population genetics comparison of a rodent versus bird pollinated <i>Liparia</i> sister-species pair

DAY 2 -- July 21, 2015. Venue: Colophon Room, SANBI, Kirstenbosch

Time		Speaker	
7.45 - 8.30	Coffee / Tea		
Session 3 : Functional Traits and the Environment			
8.30 - 9.00	Talk 14	Jane Carlson	Disruptive selection along environmental gradients: unraveling broad-scale patterns in <i>Protea</i> pigmentation and leaf morphology
9.00 - 9.30	Talk 15	Michael Cramer	The consequences of precipitation seasonality for characteristics of mediterranean-ecosystem vegetation of South Africa
9.30 - 10.00	Talk 16	Adam West	Predicting plant vulnerability to drought in biodiverse regions using functional traits.
10.00 - 10.30	Tea Break		
10.30 - 11.00	Talk 17	Cynthia Jones	TBD
11.00 - 11.30	Talk 18	Kerri Mocko	Stomatal behavior and functional leaf traits reflect phylogenetic history in co-occurring <i>Pelargonium</i> species
11.30 - 1.00	Lunch Break		
Session 4: Communities and Biomes			
1.00 - 1.30	Talk 19	Steve Johnson	The community context of floral diversification
1.30 - 2.00	Talk 20	William Bond	Fynbos versus Forest: alternative biome states?
2.00 - 2.30	Talk 21	Karen Esler	Determinants of the Fynbos/Succulent Karoo biome boundary: insights from a reciprocal transplant experiment
2.30 - 3.00	Coffee / Tea Break		
3.00 - 3.30	Talk 22	Guy Midgley	What controls carbon uptake by Proteas, and does it matter for understanding their ecology?

3.30 - 4.00	Talk 23	Frank Schurr	The demographic basis of niches and range dynamics in Fynbos Proteaceae
4.00 - 4.30	Talk 24	Jasper Slingsby	Compositional shifts in a hyperdiverse shrubland: is climate the driver?
4.30 - 5.00	Talk 25	Matthew Aiello-Lammens	Processes of plant community assembly in the environmentally heterogeneous, high biodiversity Baviaanskloof Mega-reserve
5.00 - 5.30	Talk 26	John Silander Jr.	Macro-ecological patterns and processes at community to biome scales across the CFR: overview and prospective
5.30 - 6.30	POSTER SESSION*		

*Note: Posters will be set up at tea time (10.30) on the second day of the symposium.

DAY 3 -- July 22, 2015. Venue: Colophon Room, SANBI, Kirstenbosch

Time			
7.45 - 8.30	Coffee / Tea Break		
Parallel Workshop Sessions			
8.30 - 10.30	Transcriptomics Workshop	Melis Akman	Sequencing of Transcriptomes: From Sample Collection to Data Analysis
8.30 - 10.30	JAGS Workshop	Kent Holsinger Xiaojing Wang	An introduction to Bayesian Modeling using JAGS
10.30 - 11.00	Coffee / Tea Break		
11.00 - 12.30	Transcriptomics Workshop <i>continued</i>	Melis Akman	Sequencing of Transcriptomes: From Sample Collection to Data Analysis
11.00 - 12.30	JAGS Workshop <i>continued</i>	Kent Holsinger Xiaojing Wang	An introduction to Bayesian modeling using JAGS
12.30 - 1.30	Lunch (not catered)		
1.30 - 3.00	Follow Up Sessions	Dimensions Group	Follow up for people involved in Dimensions of Biodiversity project

