



Auckland is home to around 50 volcanoes – great for studying island biogeography and plant succession. Rangitoto (meaning lava/scoria) erupted 600 years ago, became pest free in 2011, and now has many native birds flourishing amongst the largest pohutukawa forest in the world.



Pohutukawa (*Metrosideros excelsa*)

Pohutukawa (the red-flowered tree in the photo) – *Metrosideros excelsa* (Myrtaceae) were among the first plants to colonise the lava rock (known as New Zealand Christmas tree). Many families go to the beach for Christmas and picnic under these trees!

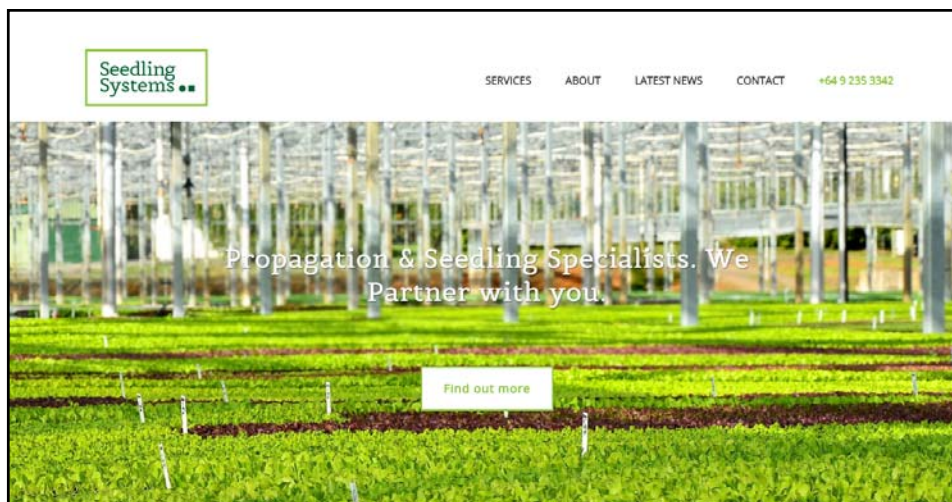
A. Investigating the effect of abiotic stress and natural variation on flowering and productivity in the model legume *Medicago truncatula*.

B. Genotyping transgenic *Arabidopsis* seeds for the *Medicago* gene *MtPIM*.

Student: **Dharini Marinkovich**
Supervisor: **Joanna Putterill**
Host Unit: **University of Auckland School of Biological Sciences**
Degree: **BSc/BA in Biological Sciences and Classical Studies**



I attended the University of Auckland and chose to study Biology and Classical studies, because I couldn't decide between science or arts. This led me to a summer studentship in my final year studying nutritional influences on flowering time of the model legume *Medicago truncatula*. I enjoyed the practical aspects of it which helped me realise that I wanted to head in a more applied science direction rather than pure research.



I spent 6 months at Seedling Systems, the largest propagation nursery in South Auckland. As well as hand-sowing they have an Urbinati Zeta Compact sowing line that can sow all pelleted seed, multiple seeds per cell and up to 650 trays an hour. My then boss introduced me to Antony Toledo of Multiflora tissue culture, who talked to me about horticultural careers and IPPS! I joined up straight away and enjoyed my first IPPS field trip to Tauranga.

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PLANT BREEDER

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SEARCH

WELCOME TO THE ART OF
PLANT BREEDING
WITH DR KEITH HAMMETT

I discovered plant breeding and took two papers with Massey University on the fundamentals of plant breeding while I worked part time with Dr Keith Hammett. I became full time in January 2016.

SEEDS FOR SALE
As plant breeders, we are able to offer seed of Sweet Peas, Clivia, Amaryllis and Dahlias not readily available elsewhere. Quantities will be limited and some items like Amaryllis belladonna, only within a brief

BREEDER PROFILE
Dr K.R.W. Hammett is a private professional plant breeder based in Auckland New Zealand.
He has developed the grounds of his 4 ha

NEWS & VIEWS
SWEET PEA CULTIVAR FLOWERING TIMES
19 Jul 2017
More than meets the eye What is most often

What is Plant Breeding?

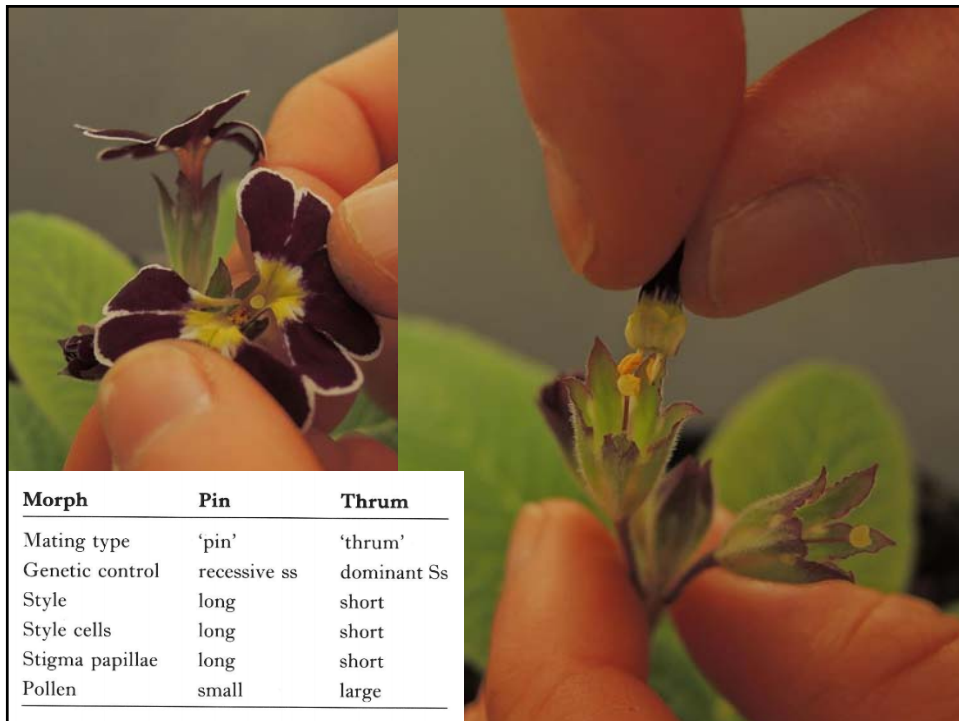
- Genetic improvement of plants
- Science and Arts

Dr. Keith Hammett began his career as a trained pathologist, but was always interested in breeding and showing ornamental plants. Now as a professional breeder of ornamental plants, he has recognised that he is a visual artist. Novel colour, flower form, plant habit, foliage shape and colour are all important in creating a piece of art that is three dimensional and interactive. Plants change with time and in space.





VISION + INSPIRATION
↓
GOAL
↓
STRATEGY
↓
METHOD







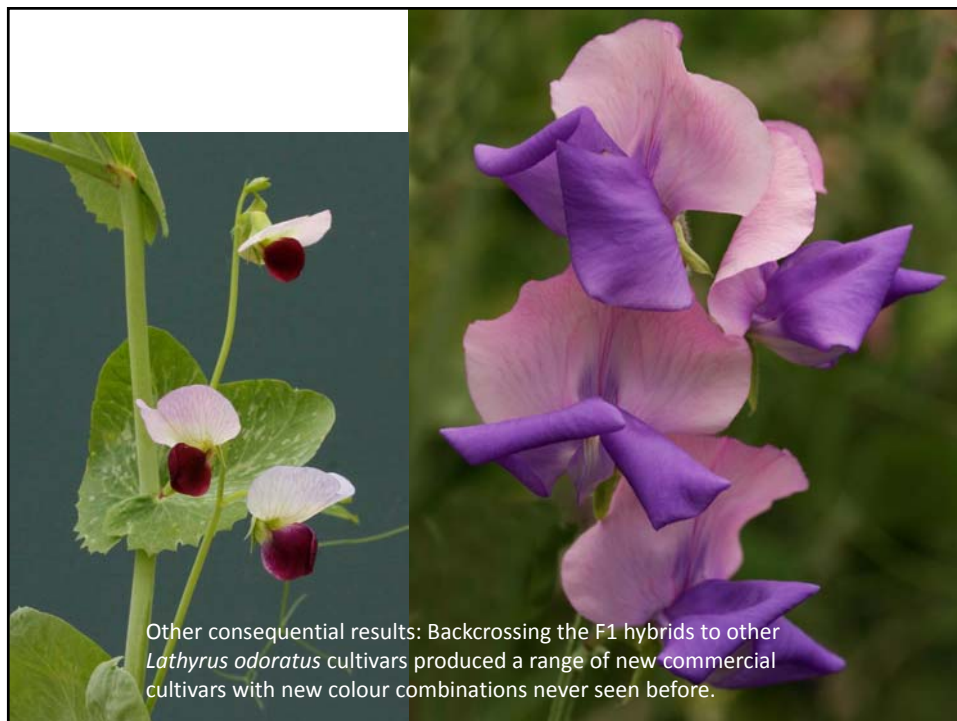
Ever since the discovery of *Lathyrus belinensis* in 1987, breeders have been trying to create a yellow-flowered sweet pea.

Developing a yellow sweet pea

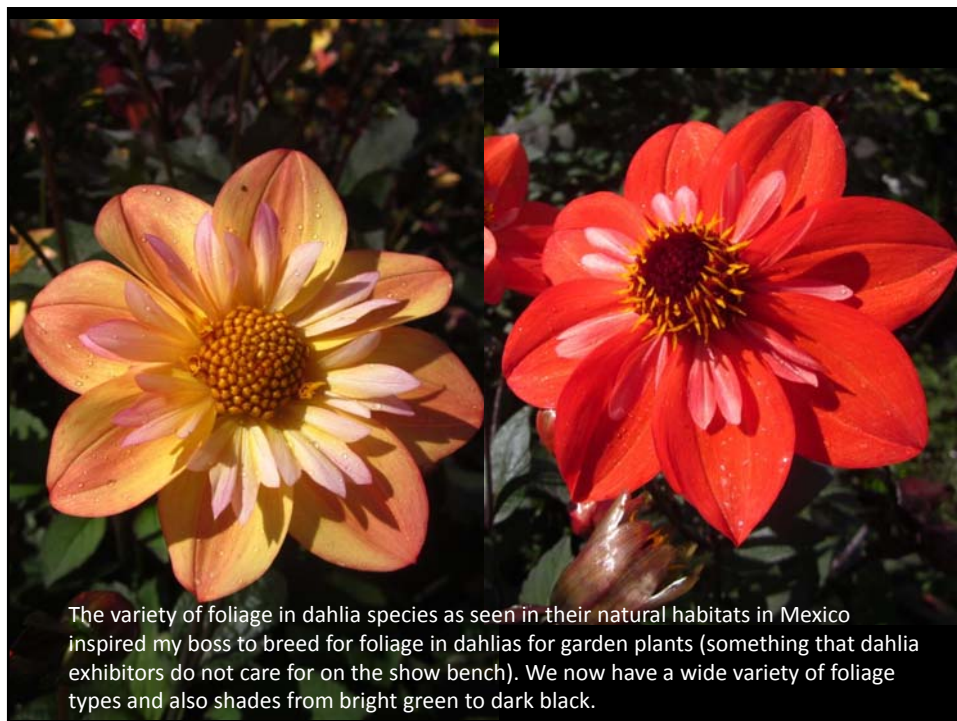
DAWN EDWARDS discusses the latest developments and provides a name for the first hybrid

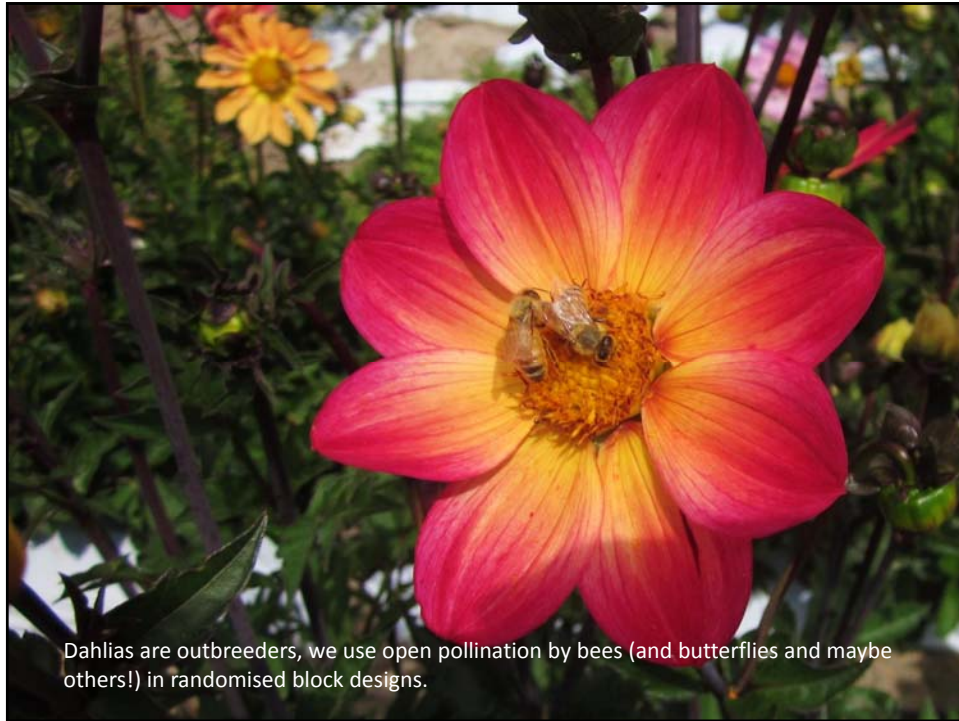
The first offspring, OB1 (centre), resulting from the cross between *L. odoratus* 'Mrs Collier' (left) and *L. belinensis* (right)

- Dawn Edwards, *The Plantsman*, December 2014.











	Standard Bicolour		Self		Reverse Bicolour	
	Yellow Disc	Dark Disc	Yellow Disc	Dark Disc	Yellow Disc	Dark Disc
	Green Leaf Tall Entire	1	2	3	4	5
Green Leaf Tall Divided	7	8	9	10	11	12
Green Leaf Intermediate Entire	13	14	15	16	17	18
Green Leaf Intermediate Divided	19	20	21	22	23	24
Green Leaf Dwarf Entire	25	26	27	28	29	30
Green Leaf Dwarf Divided	31	32	33	34	35	36
	Standard Bicolour		Self		Reverse Bicolour	
	Yellow Disc	Dark Disc	Yellow Disc	Dark Disc	Yellow Disc	Dark Disc
	Dark Leaf Tall Entire	37	38	39	40	41
Dark Leaf Tall Divided	43	44	45	46	47	48
Dark Leaf Intermediate Entire	49	50	51	52	53	54
Dark Leaf Intermediate Divided	55	56	57	58	59	60
Dark Leaf Dwarf Entire	61	62	63	64	65	66
Dark Leaf Dwarf Divided	67	68	69	70	71	72





References

- www.drkeithhammett.co.nz
- Edwards, Dawn. *The Plantsman*, December 2014.
- Richards, John. *Primula*. B.T. Batsford Ltd., London, 1993, pp 46 – 47.
- www.americanprimrosesociety.org