

Yellow clivia used in breeding program

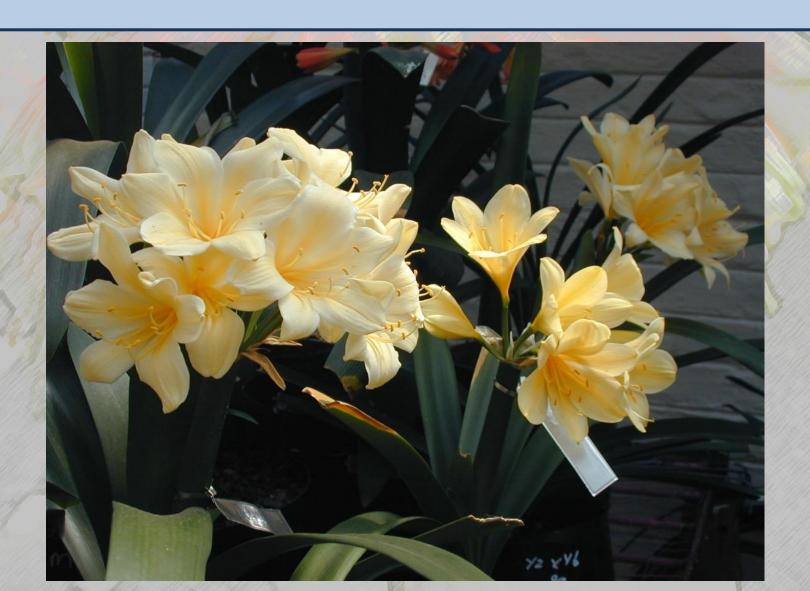
- I have been a keen clivia grower since mid 1980's from plants in my Hilton garden.
- Cynthia Giddy yellow or Group 2 yellow plants as offsets sold for R80 per plant in Natal at that time. It was regarded as expensive and not readily available. The rarity stimulated my interest in yellow clivia.
- Bought two Group 1 yellow plants from Jim Holmes at Pretoria Show, early 1990's, R250 each.
- Imported mainly Group 1 yellow seeds from Yoshika Nakamura as Vico Yellow crosses from Japan. I also imported Group 1 yellow, Aurea seeds from Bill Morris, Kevin Walters and Pen Henry in Australia.
- Plants grown from these yellow seeds form the basis for my yellow clivia propagation. Something interesting I did then was to cross Group 1 and Group 2 yellows until it produced yellow flowering plants that were compatible with my Group 1 yellow plants.
- In 2000 I saw Nick Primish's Yellow Big Flower, which represents the origin of my Jumbo yellows.
- I also planted seeds of Vico Gold and Chiba Yellow crosses from Mr Nakamura in 2002-3, as well as some Kirstenbosch seeds.

ORIGIN OF JUMBO YELLOW

- Originated from Nick Primish Yellow Big Flower (Y106, Y107, Y249 and Y297) via Mr. Nakamura.
- I had selected the best yellow plants namely Jumbo Y1-6 and crosspollinated these outstanding yellow clivia with my best big peach, pastel, yellow and orange hybrids.
- I use the name Jumbo Yellow, because Nick compared the big flowers with an elephant and the smaller, normal yellow flower to the elephant's relative, the hyrax.
- This was so typical of Nick's dry sense of humour and that is why I
 have named these flowers and their offspring Jumbo Yellow, Jumbo
 Papaya, Jumbo Pastel etc.
- The first flowers from these crosses gave excellent breeding results: the flowers were above average and of good quality.

SELECTING YELLOWS FOR BREEDING

Jumbo Yellow breeding produce positive results



JUMBO YELLOW CREDENTIALS

 Superb geometry – recurving, broad petals and diameter larger than 10cm



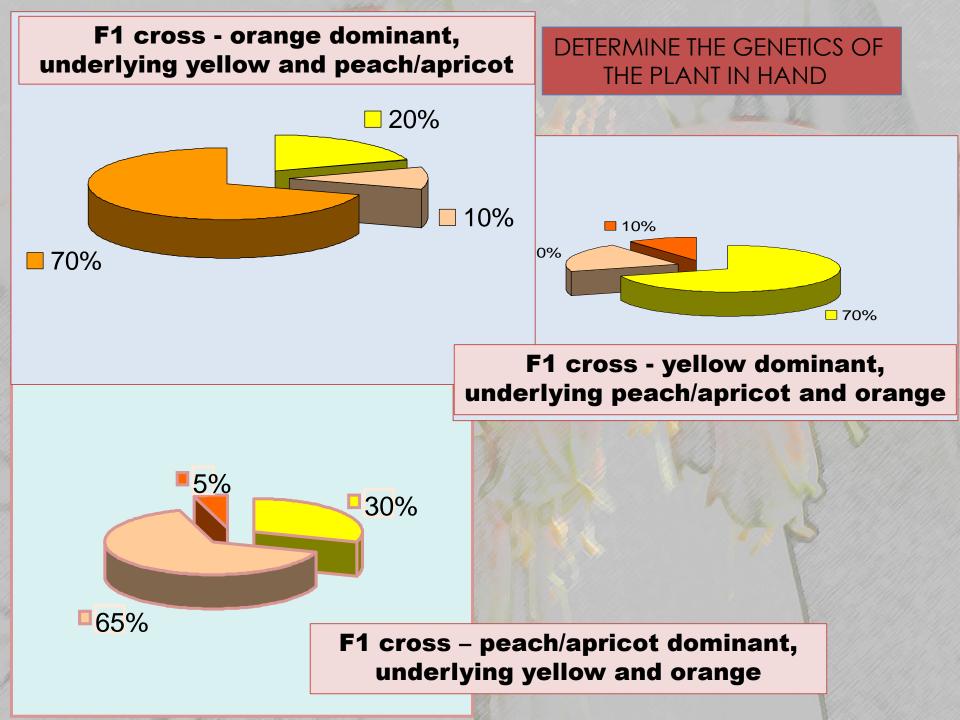
JUMBO 2 YELLOW – A RARE FIND

- Jumbo 2Y is the most unusual and it can be regarded as a special breeding plant.
- The offspring, both through the berry plant and by using pollen, produced plants with exceptionally large, recurving flowers.
- Diameter larger than 10cm, broad tepals of up to 4cm wide, and a strong peduncle supporting a flower head of 20-25 cm wide.
- It further produced outstanding multi-tepal flowers and broad leaf yellow plants.

JUMBO YELLOW SELECTIONS

Jumbo Papaya and Jumbo Pastel





PEACH SELECTION FROM JUMBO YELLOW BREEDING

• Jumbo Peach – mainly form Jumbo 2Y x Pretoria Peach



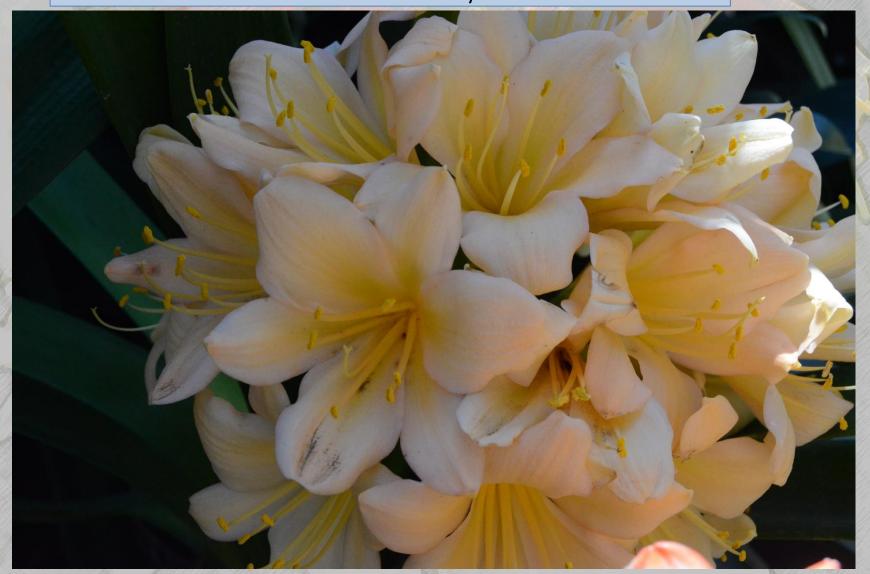
PEACH FROM JUMBO YELLOW BREEDING

 Jumbo Peach – darker and more pinkish (Pretoria Peach X Jumbo2Y)



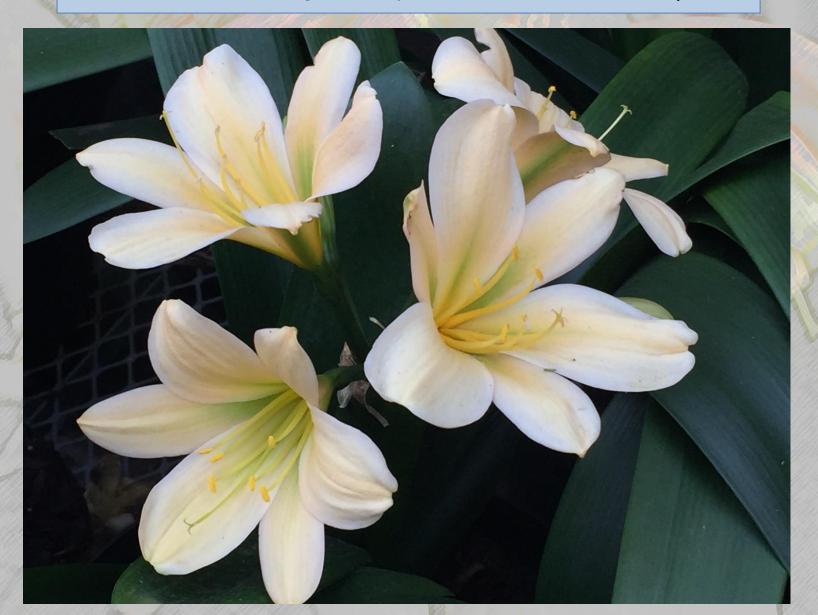
PEACH-PINK SELECTION FROM JUMBO YELLOW BREEDING

 Jumbo Peach – light pinkish (Pretoria Peach X Jumbo 2Y)



PEACH SELECTION FROM JUMBO YELLOW BREEDING

Jumbo Peach – greenish (Pretoria Peach X Jumbo2Y)



GREEN THROAT GROUP 1 - YELLOW AND PEACH

Original Green Yellow - Aurea Yellow X Chubb's Peach





Dark Yellow/peach next generation – F2

GREEN THROAT GROUP 1 – YELLOW AND PEACH

F1 - Peggy's Peach X Peggy's Peach

F1 - PP = Aurea X Peggy's Peach





Nylstroom Peach – YG1 X Victorian Peach

CHIBA – superb possibilities

Chiba Yellow grown from Chiba Orange seeds

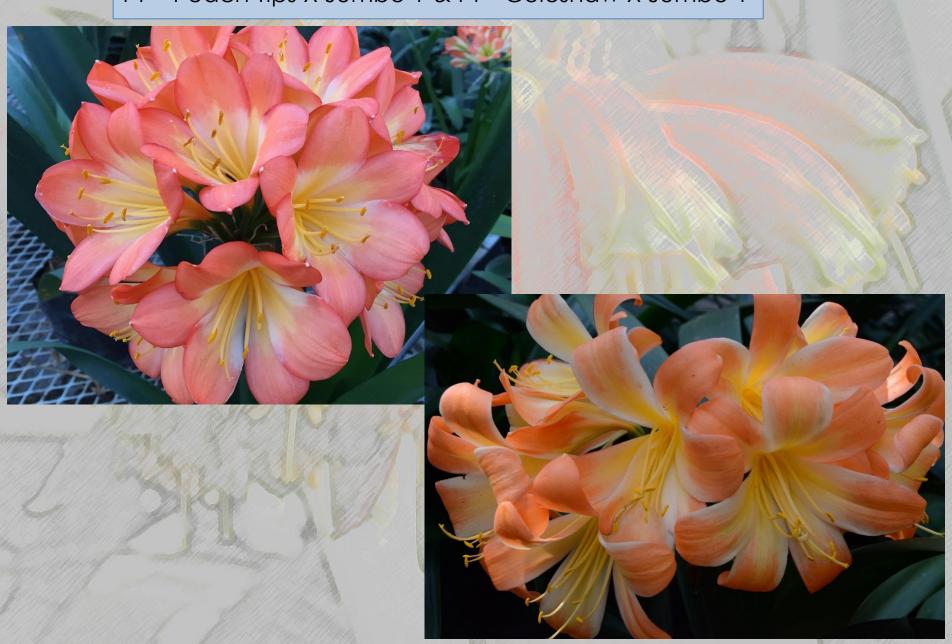


WILLOW BRIGHT – superb possibilities





JUMBO PASTEL possibilities F1 – Peach Tips X Jumbo Y & F1 - Coleshaw X Jumbo Y



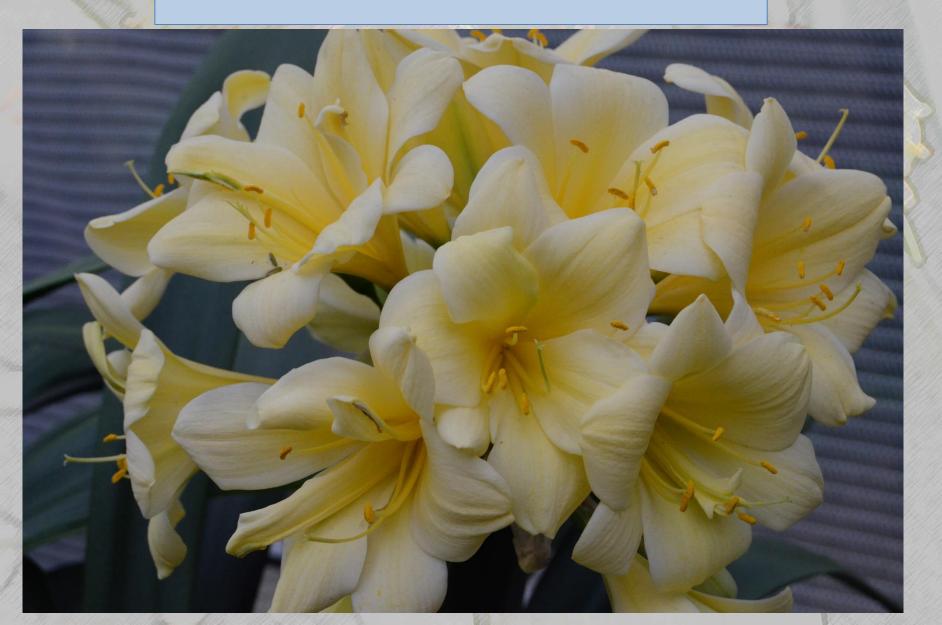
CHIBA ORANGE – superb size and shape

Orange plants with genetics to grow excellent Yellows from



JUMBO MULTI-TEPAL – exciting prospects

Jumbo Y Multi-tepal – (Bottom white – Y X VY) X Jumbo 2)



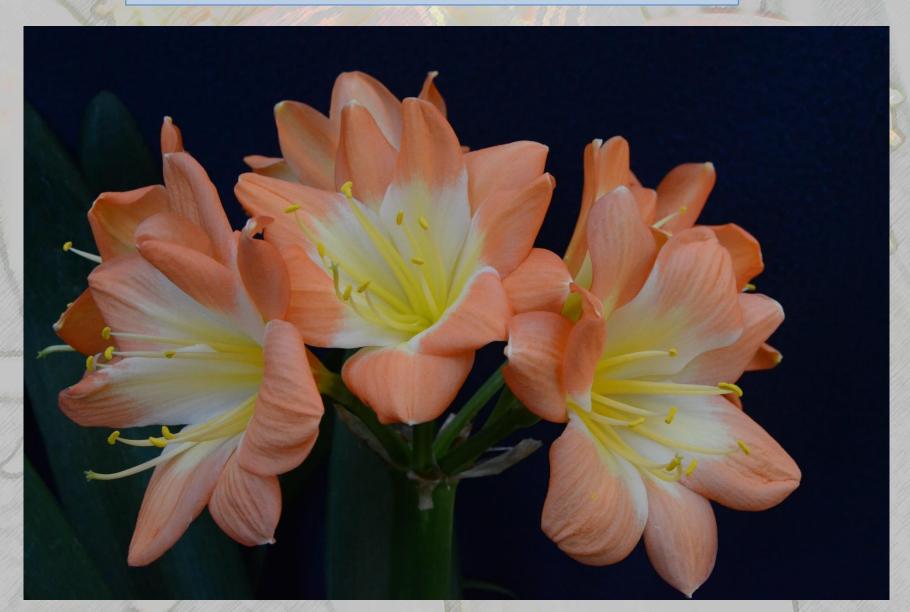
JUMBO MULTI-TEPAL

Apricot Jumbo Multi-tepal out of – Jumbo 2 cross



JUMBO MULTI-TEPAL

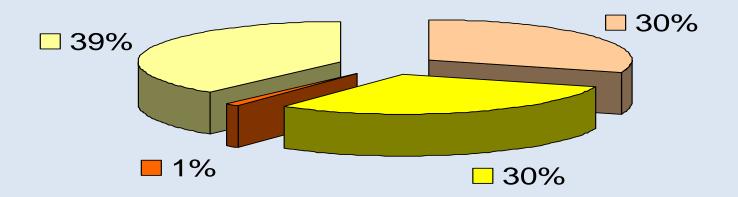
• Orange Jumbo Multi-tepal – (12 tepal orange X Jumbo 2)





Next generations - colour possibilities

F2 cross. Peach, light apricot and yellow can be dominant. Underlying orange



NEW Bi-COLOUR CLIVIA

F1 – F2 Aurea crosses



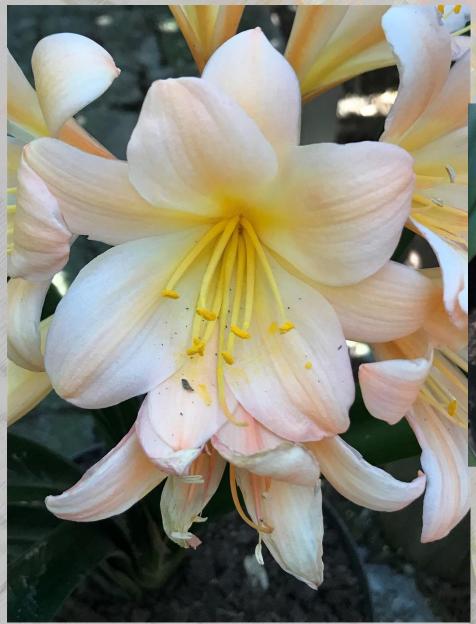


Have great potential to cross with Jumbo Yellow

UNUSUAL PEACH AND PINKISH FLOWERS



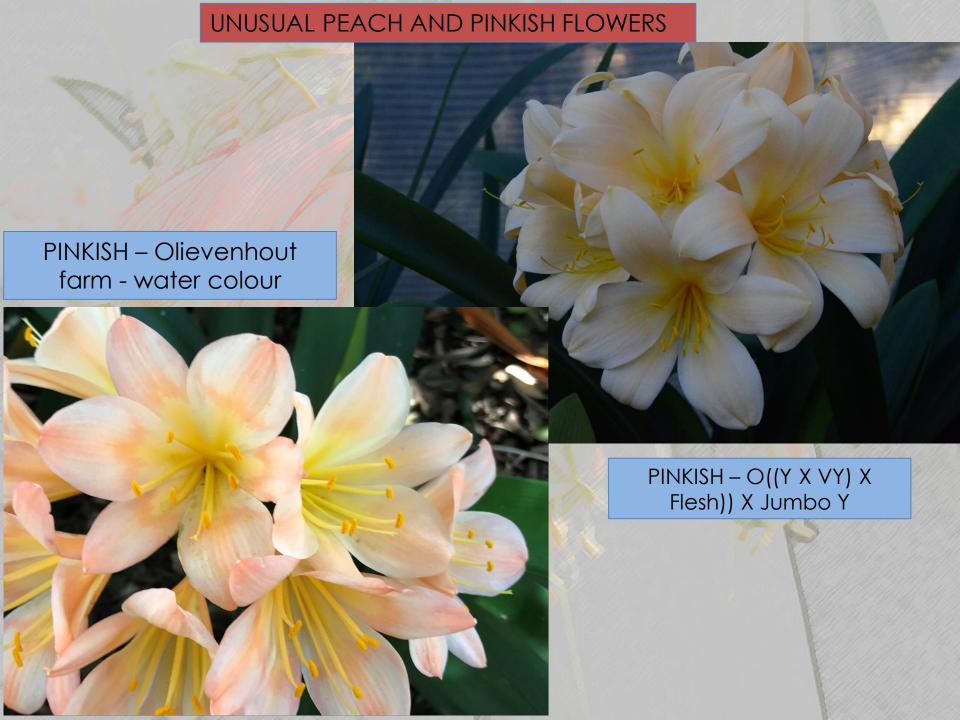
UNUSUAL PEACH AND PINKISH FLOWERS



PINKISH – Olievenhout farm

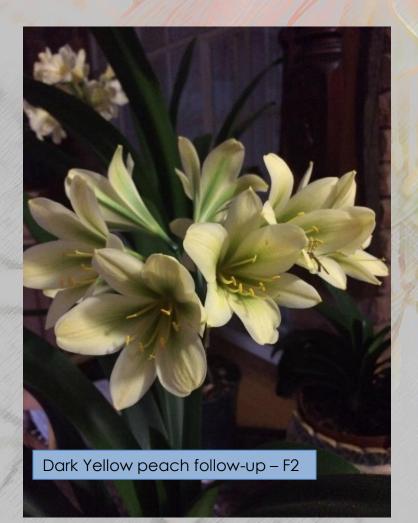


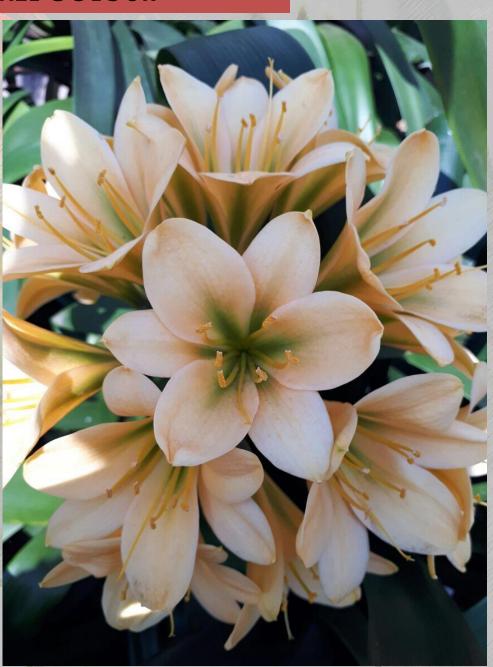
PINKISH – versi-colour



NEW CARAMEL COLOUR

Oasis – the desert meets the green trees – F3-generation





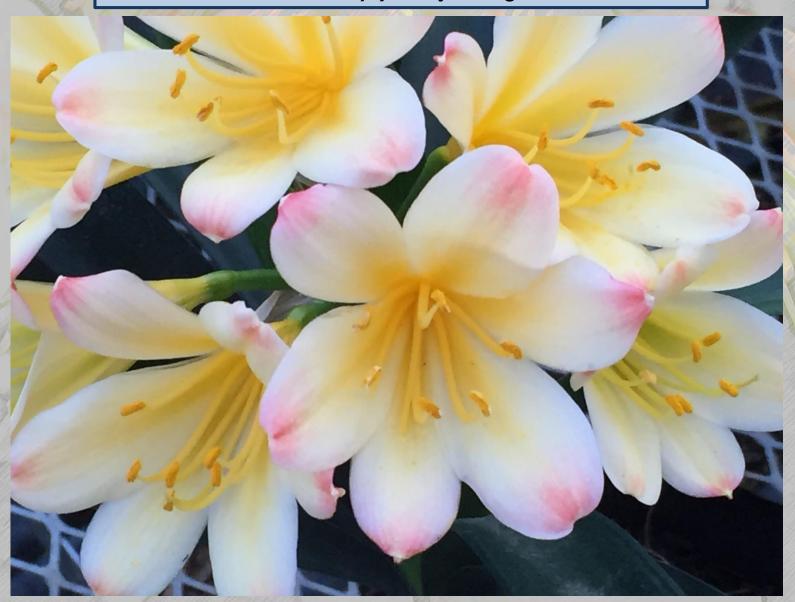
UNUSUAL MULTI-TEPAL

Maxi Multi 2016 – (Orange recurving X Jumbo 2)



UNUSUAL PALJAS MAGIC SERIES

Pink Spot 4 Marys – (Jumbo Y X 4 Marys) = F1 (Y - 4 Marys X O - 4 Marys) = Paljas Magic



PALJAS MAGIC HAS A GREAT FUTURE

What about growing a Jumbo Paljas Magic flower?



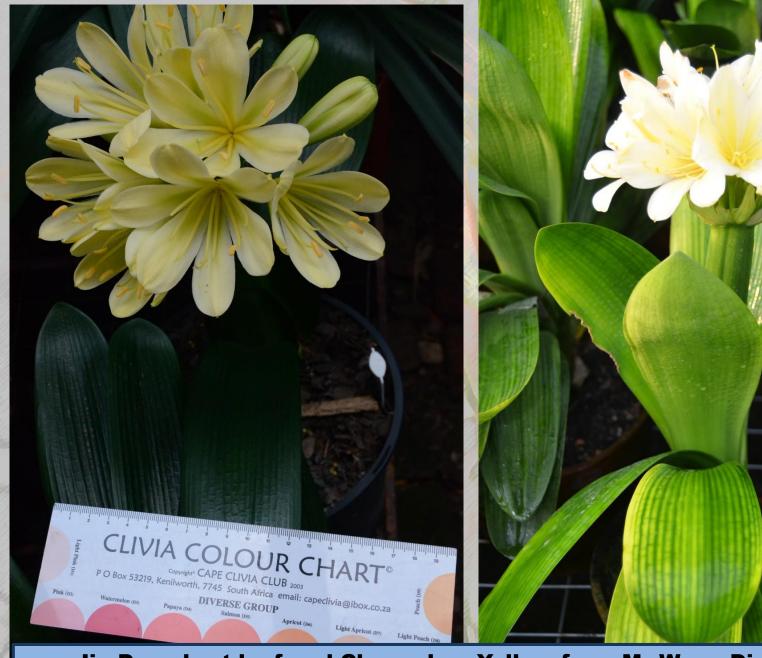
BROAD LEAF YELLOW?

- Use good quality Changchun Yellow Group 2 plants
- Use plants out of Jumbo 2Y Group 1 plants
- Your collection might just have the right plant!

F1 & F2 cross – Punnett square, Spies, 2016 demonstrating dominance of orange flower / normal clivia leaf in yellow clivia propagation

Mendel's experiments were based on peas and the F1 generation started with self pollination of peas with purple flowers and round seeds in the F1 generation (PpRr)

Cross a purple flowering plant with round seeds (genotype PPRR) with a white flowering plant with wrinkled seeds (genotype pprr)											
Each parent will contribute one flower colour gene and one seed gene resulting recessive traits of PpRr											
P = purple flower or orange flower											
p = white flower or yellow flower											
R = round seed or normal leaf											
00	kled seed										
	PR	Pr	pR	pr			PR	Pr	pR	pr	
PR	PPRR	PPRr	PpRR	PpRr		PR	PPRR	PPRr	PpRR	PpRr	
Pr	PPRr	PPrr	PpRr	Pprr		Pr	PPRr	PPrr	PpRr	Pprr	
pR	PpRR	PPRr	ppRR	PpRr		pR	PpRR	PPRr	ppRR	PpRr	
pr	PpRr	Pprr	ppRr	pprr		pr	PpRr	Pprr	ppRr	pprr	



Jin Dan short leaf and Changchun Yellow from Mr Wang Dian Chunn

CONCLUSIONS

- It is great fun growing yellow clivia and their crosses, often resulting in an unexpected, positive outcome
- There is no colour restriction in terms of what is possible. It is just a matter of finding the right combination.
- I am half-way from growing compact, yellow flowering plants with a good leaf shape and extralarge flowers or with large multi-tepal flowers. This is still a challenge, but I believe it is possible.