Rose Fragrance Research

at China Agricultural University in Beijing, China







College of Horticulture - Pomology

- Vegetable science
- Ornamental horticulture

Plant physiology Plant breeding and genetics Postharvest biology



University Ranking Virtual Control Co

Another College

- Food Science
- Veterinarian and Animal science
- Land Science
- Pestiside science and technology
- ETC.

Benefit and Future





2 Computer analysis

Daing Rose genome combine

Gene editting
Using CRISPR technique for knock-out gene expression and try to increase the level of formation and try the control of the cont

Thank you



CHN-THA research collab-

Transmit production technologies

- Smart and inteligence Greenhouse
- Al and robotic for greenhouse

Problem issue

Heat torelance

Pest resistance

High quality production

Eco-friendly production

New varieties



Situation of flower production in Thailand

Imported >>> Produced
Important exported crop >>>
Orchid (Dendrobium)

Lacking of production technology and research study

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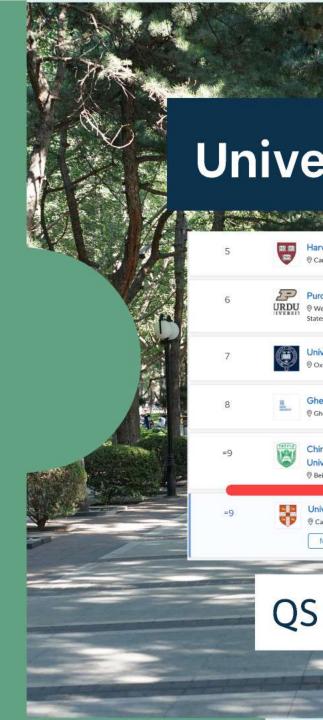


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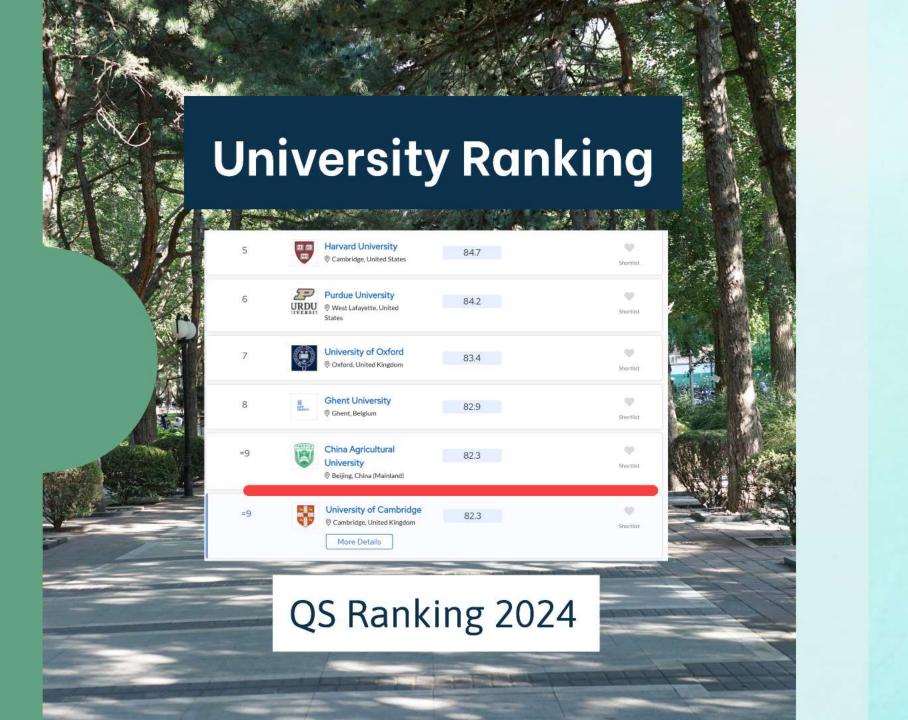




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genetics





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Benefit and Future



Zhou Lijun et al. (2020)

Representative materials of 7 fragrance types of roses.

No.	Fragrance types of roses	Representative materials	Abbreviation
1	Fragrance of damask classic	Rosa rugosa	RR
2	Fragrance of damask modern	R. 'Crimson Glory'	RCG
3	Fragrance of tea	R. 'Lotus in Sunshine'	RLS
4	Fragrance of fruity	R. 'Double Delight'	RDD
5	Fragrance of blue	R. 'Exquisite Jade'	REJ
6	Fragrance of spicy	R. 'Buddha's Portrait'	RBP
7	Fragrance of myrrh/anise	R. banksiae var banksiae	RBB





Gene Discovery

mechanism of gene expression and gene profilling



Computer analysis

Using Rose genome combine with gene sequence

5

Gene editting

Using CRISPR technique for knock-out gene expression and try to increase the level of fragrance gene expression.



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