

Brief Notes on Cellular culture of plants

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Keywords: 20.; C. ...; 2. (00.;

Introduction

• • • • • • • • • • X L. . (🕅 . . . 1971 - 📓 1972 - C🛍 СZ , , Nicotiana tabacum (, , , 🗐 , , , (**1** 1974 - 🗷 📓 🗸 🔪 D'A. (📓 . . 🕅 1978-. 1 2 Ĩ. . . , , 21 1981- 🛍 2 **?**1 1983 - 📽 Χ. . (🕅 、 • . . G G **R** 🕅 , 1984 - 🧳 🔒 🖬 . . 🛙 . 🛙 (. Agrobacterium

Basics of Plant Cell and Tissue Culture

2 in vitro 8 , 1 A. R) . 00 A . . . a) X X . A ΞĬ . . 1 R A a) **3**1 M Ĩ R) A N 1 N in vitro. 1 . 1 , i 📓 , i 📓 2 Σ. 2 . . , • Ĩ, 5.4 - 5.8. B , X N . R. A (·. · ,۱ ΞÎ 1 1 Э (,⊠.,.2,⊠. 1 (LGR'), 🕅 . 🖬 , . 🖬 2 a. . . 1 2 3 1 (📓 🚬 Â. 2 . . 🖬 2 a) 1 1 R) • • 1 🕅 R) Α . 🖬 21 (🕅 . . 🛙 , 📓 , 🕅 1 . 🖬 . . . , 🕅 . . 📓 , F 🚬 1 , **N**

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- **A** E
- A 🖬 B
- A ... B

General Technique of Micropropagation

Stage 0: pre-propagation stage

(, , , , **)** 🕅 21 1 , , , , i 📓 ., .. C 🖬 **A A**. X 21 , **X**. (🕅 . 2 . C , i 🖬 . . . **0** , **0** , , , **0** , , , **0** ۱., **?**1 . in vitro R) . 1, a , in vitro 1 21 🖬 🖬 . . (🕅 . A 2 F , 🖬 🕺 1 1,, . . / λ. 1

Advantages of micropropagation

. . . 1 (0. 0. **a** . .. Ø -→ (Ø.,. 🖬 🛍 1. 1. . . 🖬 , 🛙 . . . • , **1** · · · . 🛙 . . X. - - - - - 🖬 🔪 1 R . . . 21 . . , 🖬 R) ·· • ., (🖬 ., **.** . , . •••• .17 . 2

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Meristem:					
a , .			1 1	• •,,	
Micropropagation:		, t _ 🖬	•, ••		ι Δ .,
	•	•			
Propagule: 🗟 📿 🖉 🗟	2	. (,	., 0, 0		.) 🧳
Somatic embryos: -	•		, - _√	s , •*.	••••
		_	, , 🕅 🚬	1	<i>.</i> .
Tissue culture: in vitro		· · · · · · · · · · · · · · · · · · ·	,, , , , ,	1, 1	(🛛 .,
Totipotency:) M		(🛛
Transgenic: 🛛 🚬 🖬			D A		
Undi erentiated:		🖬 ,		(

Conclusion

45.18 6(____), (12.2, 20.1, 20.2, 20.1, 20.2, 20.1, 20.2, 20.1, 20.2, 20.1, 20.2, 20.1, 20.2, 20