

1. Cardi, T. and E. Filippone. 1986. PNL 18:7-9.
2. Filippone, E. 1985. PNL 17:12.
3. Filippone, E. and T. Cardi. 1986. Proc. Eucarpia Meeting on Pea Breeding, Sorrento (Italy), June 10-13, 1985. pp. 71-85.
4. Kartha, K. K., O. L. Gamborg, and F. Constabel. 1974. Z. Pflanzenphysiol. 72:172-176.
5. Maene, L. and P. Debergh. 1985. Plant Cell Tissue Organ Culture 5:23-33.
6. Phillips, G. C., and G. B. Collins. 1979. Crop Sci. 19:59-64.
7. Samartin, A., A. A. Vieitez, and E. Vieitez. 1986. J. Amer. Soc. Hort. Sci. 61:113-120.
8. Travers, J. N., C. J. Starbuck, and N. J. Natarella. 1985. HortScience 20:1051-1052.

Table 1. Rooting percentage in two pea genotypes on shoots obtained by means of two different procedures.

Genotype	Shoots from			
	buds on P2 medium		seeds on POb medium	
Proteo	(330) ¹	54.8	(124)	93.5
L14 (afila)	(351)	34.8	(118)	90.7
X ²	28.6 ***		0.3	

*** Differences between genotypes significant at 0.001 level.

* In parentheses no. of shoots analyzed.

Table 2. Effect of various substances added to the basal rooting medium on rooting percentage in Proteo (a) and L14 (b) genotypes.

(a)

Level *	NAA	IBA	Sucrose	Ornithine	Glutamine	3-aminopyridine
	%	%	%	%		%
1	(58) ² 55.2	(28) 46.4	(56) 39.3	(56) 55.4	(55) 52.7	(51) 52.9
2	(53) 71.7	(27) 55.6	(49) 61.2	(51) 17.6	(53) 64.2	(53) 83.0
3	(54) 63.0	(25) 64.0	(44) 68.2	(55) 7.3	(46) 67.4	(49) 77.6
4	(56) 64.3	(25) 56.0	(46) 65.2	(53) 1.9	(54) 70.4	(54) 77.8
X ²	3.3	1.7	11.0*	58.2***	4.2	14.2**

(b)

Level	NAA	IBA	Sucrose	Ornithine	Glutamine	3-aminopyridine
	%	%	%	%	%	%
1	(48) 33.3	(17) 35.3	(40) 22.5	(39) 30.8	(41) 39.0	(48) 33.3
2	(52) 61.5	(15) 60.0	(38) 31.6	(39) 20.5	(48) 50.0	(52) 71.2
3	(50) 58.0	(17) 70.6	(32) 46.9	(36) 8.3	(48) 60.4	(52) 69.2
4	(50) 50.0	(15) 60.0	(37) 51.4	(37) 2.7	(45) 57.8	(53) 71.7
X ²	9.3	4.7	8.6*	13.4**	4.8	21.8***

*, **, *** Differences between levels significant at 0.05, 0.01, 0.001, respectively

¹ NAA, IBA : 1= 0 mg/l; 2= 0.2 mg/l; 3= 0.4 mg/l; 4= 0.6 mg/l.

Sucrose : 1= 0 g/l; 2= 10 g/l; 3= 20 g/l; 4= 40 g/l.

Ornithine, Glutamine : 1= 0 g/l; 2= 0.5 g/l; 3= 1.0 g/l; 4= 1.5 g/l.

3-aminopyridine : 1= 0 mg/l; 2= 0.1 mg/l; 3= 0.5 mg/l; 4= 1.0 mg/l.

In parentheses no. of shoots analyzed
