

Supplementary Table 1. The frequency of shooting explants (%) from internodal stems and pulvini of petiole explants cultured on the shoot induction medium with BAP and IBA combinations.

PGRs (mg/L)		Internodal stem		Pulvinus of the petiole	
BAP	IBA	Transverse TCL	Longitudinal TCL	Transverse TCL	Longitudinal TCL
0	0	0	0	0	0
0.25	0	42.5	47.5	42.5	52.5
0.5	0	100	100	100	100
0.75	0	100	100	100	100
1.0	0	100	100	100	100
0	0.25	0	0	0	0
0.25	0.25	0	0	0	0
0.5	0.25	100	100	100	100
0.75	0.25	100	100	100	100
1.0	0.25	100	100	100	100
0	0.5	0	0	0	0
0.25	0.5	0	0	0	0
0.5	0.5	0	0	0	0
0.75	0.5	100	100	100	100
1.0	0.5	100	100	100	100
0	0.75	0	0	0	0
0.25	0.75	0	0	0	0
0.5	0.75	0	0	0	0
0.75	0.75	0	0	0	0
1.0	0.75	100	100	100	100

PGRs: Plant growth regulators; TCL: Thin cell layer; Measurements were taken after eight weeks of culture.

Supplementary Table 2. Shoot regeneration from internodal stems and pulvini of petiole explants cultured on the shoot induction medium with BAP and IBA combinations.

PGRs (mg/L)		Internodal stem		Pulvinus of the petiole	
BAP	IBA	Transverse TCL	Longitudinal TCL	Transverse TCL	Longitudinal TCL
0	0	0.0±0.0k	0.0±0.0k	0.0±0.0k	0.0±0.0k
0.25	0	0.90±0.003j	1.1±0.003j	0.9±0.003j	1.20±0.003j
0.5	0	4.25±0.012h	4.73±0.013h	4.55±0.13h	5.30±0.015h
0.75	0	7.9±0.022e	7.88±0.022g	7.8±0.022f	8.1±0.023f
1.0	0	2.75±0.00i	3.15±0.009i	3.6±0.01i	3.90±0.011i
0	0.25	0.0±0.0k	0.0±0.0k	0.0±0.0k	0.0±0.0k
0.25	0.25	0.0±0.0k	0.0±0.0k	0.0±0.0k	0.0±0.0k
0.5	0.25	10.03±0.03c	10.35±0.03d	10.75±0.031c	10.70±0.031e
0.75	0.25	10.95±0.032b	10.97±0.03c	11.70±0.034b	11.40±0.032d
1.0	0.25	6.25±0.02f	5.93±0.017g	6.0±0.02g	6.20±0.018g
0	0.5	0.0±0.0k	0.0±0.0k	0.0±0.0k	0.0±0.0k
0.25	0.5	0.0±0.0k	0.0±0.0k	0.0±0.0k	0.0±0.0k
0.5	0.5	0.0±0.0k	0.0±0.0k	0.0±0.0k	0.0±0.0k
0.75	0.5	21.52±0.065a	14.77±0.07a	26.3±0.064a	24.90±0.071a
1.0	0.5	9.25±0.02d	13.25±0.038b	9.8±0.03d	13.40±0.038b
0	0.75	0.0±0.0k	0.0±0.0k	0.0±0.0k	0.0±0.0k
0.25	0.75	0.0±0.0k	0.0±0.0k	0.0±0.0k	0.0±0.0k
0.5	0.75	0.0±0.0k	0.0±0.0k	0.0±0.0k	0.0±0.0k
0.75	0.75	0.0±0.0k	0.0±0.0k	0.0±0.0k	0.0±0.0k
1.0	0.75	4.35±0.012g	9.65±0.027e	9.3±0.026e	12.60±0.036c

The results of four completely randomized designs are expressed as means ± SE; Means with different letters in each column are significantly different at $p \leq 0.05$ according to Tukey's test; PGRs: Plant growth regulators; TCL: Thin cell layer; Measurements were taken after eight weeks of culture.

Supplementary Table 3. The frequency of shooting explants (%) from internodal stems and pulvini of the petiole explants cultured on the shoot induction medium with BAP and NAA combinations.

PGRs (mg/L)		Internodal stem		Pulvinus of the petiole	
BAP	NAA	Transverse TCL	Longitudinal TCL	Transverse TCL	Longitudinal TCL
0	0	0	0	0	0
0.25	0	42.5	42.5	42.5	42.5
0.5	0	100	100	100	100
0.75	0	100	100	100	100
1.0	0	100	100	100	100
0	0.25	0	0	0	0
0.25	0.25	0	0	0	0
0.5	0.25	50	50	50	50
0.75	0.25	60	60	60	60
1.0	0.25	35	35	35	35
0	0.5	0	0	0	0
0.25	0.5	0	0	0	0
0.5	0.5	0	0	0	0
0.75	0.5	70	70	70	70
1.0	0.5	35	35	35	35
0	0.75	0	0	0	0
0.25	0.75	0	0	0	0
0.5	0.75	0	0	0	0
0.75	0.75	0	0	0	0
1.0	0.75	30	30	30	30

PGRs: Plant growth regulators; TCL: Thin cell layer; Measurements were taken after eight weeks of culture.

Supplementary Table 4. Shoot regeneration from internodal stems and pulvini of petiole explants cultured on the shoot induction medium with BAP and NAA combinations.

PGRs (mg/L)		Internodal stem		Pulvinus of the petiole	
BAP	NAA	Transverse TCL	Longitudinal TCL	Transverse TCL	Longitudinal TCL
0	0	0.0±0.0k	0.0±0.0k	0.0±0.0k	0.0±0.0k
0.25	0	0.90±0.003j	0.90±0.003j	0.90±0.003j	0.90±0.003j
0.5	0	4.25±0.012b	4.25±0.012b	4.25±0.012b	4.25±0.012b
0.75	0	7.9±0.022a	7.9±0.022a	7.9±0.022a	7.9±0.022a
1.0	0	2.75±0.00c	2.75±0.00c	2.75±0.00c	2.75±0.00c
0	0.25	0.0±0.0k	0.0±0.0k	0.0±0.0k	0.0±0.0k
0.25	0.25	0.0±0.0k	0.0±0.0k	0.0±0.0k	0.0±0.0k
0.5	0.25	1.8±0.005g	1.8±0.005g	1.8±0.005g	1.8±0.005g
0.75	0.25	2.18±0.006f	2.18±0.006f	2.18±0.006f	2.18±0.006f
1.0	0.25	1.53±0.004h	1.53±0.004h	1.53±0.004h	1.53±0.004h
0	0.5	0.0±0.0k	0.0±0.0k	0.0±0.0k	0.0±0.0k
0.25	0.5	0.0±0.0k	0.0±0.0k	0.0±0.0k	0.0±0.0k
0.5	0.5	0.0±0.0k	0.0±0.0k	0.0±0.0k	0.0±0.0k
0.75	0.5	2.4±0.007d	2.4±0.007d	2.4±0.007d	2.4±0.007d
1.0	0.5	2.28±0.006e	2.28±0.006e	2.28±0.006e	2.28±0.006e
0	0.75	0.0±0.0k	0.0±0.0k	0.0±0.0k	0.0±0.0k
0.25	0.75	0.0±0.0k	0.0±0.0k	0.0±0.0k	0.0±0.0k
0.5	0.75	0.0±0.0k	0.0±0.0k	0.0±0.0k	0.0±0.0k
0.75	0.75	0.0±0.0k	0.0±0.0k	0.0±0.0k	0.0±0.0k
1.0	0.75	1.13±0.003i	1.13±0.003i	1.13±0.003i	1.13±0.003i

PGRs: Plant growth regulators; TCL: Thin cell layer; The results of four completely randomized designs are expressed as means ± SE; Means with different letters in each column are significantly different at $p \leq 0.05$ according to Tukey's test; Measurements were taken after eight weeks of culture.

Supplementary Table 5. The rooting frequency of the regenerated shoots cultured on the root induction medium containing different IBA and NAA combinations after eight weeks in culture.

IBA	NAA	Rooting rate (%)
0	0	85
0.1	0	85
0.2	0	85
0.3	0	80
0	0.05	70
0	0.1	75
0	0.15	70
0	0.2	80
0.1	0.05	79
0.2	0.05	87
0.3	0.05	83
0.1	0.1	95
0.2	0.1	100
0.3	0.1	82
0.1	0.15	95
0.2	0.15	90
0.3	0.15	71
0.1	0.2	60
0.2	0.2	60
0.3	0.2	51

Measurements were taken after eight weeks of culture.