Table S1. Influence of sterilant type and explant origin on Culture asepsis (%) and explant survival (%) in cherry rootstock "GiSelA 17" (*Prunus canescens* × *Prunus avium*).

Sterilants (S)	Culture asepsis (%)		Explant survival (%)	
	Explant origin (E)			
	Shoot tip (E1)	Nodal segment (E2)	Shoot tip (E2)	Nodal segment (E2)
S1	61.16	35.16	80.33	65.33
S2	32.53	23.33	32.90	22.96
S3	43.50	29.16	42.93	31.60
S4	75.33	62.60	50.33	40.33
S5	65.80	45.83	33.26	24.80
SE(d)	0.87		0.22	
SE(m)	0.61		0.35	
C.D($p \leq 0.05$)	1.84		0.50	

* Mean value in columns using OPSTAT (version 6.8) at C.D ($p \leq 0.05$).

Table S2. (**a,b**) Effect of explant origin, plant growth regulator regime and media type on Explant survival (%) in cherry rootstock " GiSelA 17" (*Prunus canescens* × *Prunus avium*).

(a)

Plant Growth Regulators (mg/l) (P)	BAP (0.25)		BAP (0.50)		BAP (0.75)		BAP (1.00)		BAP (1.25)		BAP (1.50)	
Media(M)\Explant (E)	MS (M_1)	WPM (M_2)	MS (M_1)	WPM (M_2)	MS (M_1)	WPM (M_2)	MS (M_1)	WPM (M_2)	MS (M_1)	WPM (M_2)	MS (M_1)	WPM (M_2)
Shoot tip (E_1)	61.00	55.33	75.00	67.00	85.00	71.00	91.00	75.33	55.00	41.00	55.00	47.00
Nodal segment (E_2)	64.33	57.66	74.33	67.66	85.66	71.66	64.00	56.33	44.66	51.66	65.66	46.33

(b)

Plant Growth Regulators (mg/l) (P)	BAP + IBA (0.25 +0.01)		BAP + IBA (0.50 + 0.01)		BAP + IBA (0.75+0.01)		BAP + IBA (1.00+0.01)		BAP + IBA (1.25+0.01)		BAP + IBA (1.50+0.01)	
Media(M)\ Explant (E)	MS (M_1)	WPM (M_2)	MS (M_1)	WPM (M_2)	MS (M_1)	WPM (M_2)	MS (M_1)	WPM (M_2)	MS (M_1)	WPM (M_2)	MS (M_1)	WPM (M_2)
Shoot tip (E_1)	73.33	68.33	85.00	74.33	91.00	73.00	93.33	78.33	71.00	63.00	65.00	54.33
Nodal segment (E_2)	64.66	56.66	75.33	58.66	76.66	59.66	65.33	48.66	55.00	46.33	66.66	36.66
SE(d)									0.81			
SE(m)									SE(m)			
C.D($p \leq 0.05$)									1.62			

* Mean value in columns using OPSTAT (version 6.8)at C.D ($p \leq 0.05$).

Table S3. (**a,b**) Effect of explant origin, plant growth regulator and media type on Establishment (%) in cherry rootstock " GiSelA 17" (*Prunus canescens* × *Prunus avium*).

(a)

Plant Growth Regulators (mg/l) (P)	**BAP (0.25)**		**BAP (0.50)**		**BAP (0.75)**		**BAP (1.00)**		**BAP (1.25)**		**BAP (1.50)**	
Media(M)\ Explant (E)	**MS (M_1)**	**WPM (M_2)**	**MS (M_1)**	**WPM (M_2)**	**MS (M_1)**	**WPM (M_2)**	**MS (M_1)**	**WPM (M_2)**	**MS (M_1)**	**WPM (M_2)**	**MS (M_1)**	**WPM (M_2)**
Shoot tip (E_1)	51.00	45.33	65.00	57.00	75.00	61.00	81.00	65.33	45.00	31.00	45.00	37.00
Nodal segment (E_2)	54.33	47.66	64.33	57.66	75.66	61.66	54.00	46.33	34.66	41.66	55.66	38.66

(b)

Plant Growth Regulators (mg/l) (P)	**BAP + IBA (0.25 +0.01)**		**BAP + IBA (0.50 + 0.01)**		**BAP + IBA (0.75+0.01)**		**BAP + IBA (1.00+0.01)**		**BAP + IBA (1.25+0.01)**		**BAP + IBA (1.50+0.01)**	
Media(M)\ Explant (E)	**MS (M_1)**	**WPM (M_2)**	**MS (M_1)**	**WPM (M_2)**	**MS (M_1)**	**WPM (M_2)**	**MS (M_1)**	**WPM (M_2)**	**MS (M_1)**	**WPM (M_2)**	**MS (M_1)**	**WPM (M_2)**
Shoot tip (E_1)	63.33	58.33	75.00	64.33	81.00	63.00	83.33	68.33	61.00	53.00	55.00	44.33
Nodal segment (E_2)	54.66	46.66	65.33	48.66	66.66	49.66	55.33	36.33	44.00	33.00	56.66	26.66
SE(d)									0.78			
SE(m)									0.55			
C.D ($p \leq 0.05$)									1.56			

* Mean value in columns usingOPSTAT (version 6.8) at C.D ($p \leq 0.05$).

Table S4. (**a,b**) Effect of explant origin,plant growth regulator regime and media type on Necrosis (%) in cherry rootstock " GiSelA 17" (*Prunus canescens* × *Prunus avium*).

(a)

Plant Growth Regulators (mg/l) (P)	**BAP (0.25)**		**BAP (0.50)**		**BAP (0.75)**		**BAP (1.00)**		**BAP (1.25)**		**BAP (1.50)**	
Media(M)\ Explant (E)	**MS (M_1)**	**WPM (M_2)**	**MS (M_1)**	**WPM (M_2)**	**MS (M_1)**	**WPM (M_2)**	**MS (M_1)**	**WPM (M_2)**	**MS (M_1)**	**WPM (M_2)**	**MS (M_1)**	**WPM (M_2)**
Shoot tip (E_1)	39.00	44.00	25.00	33.00	35.00	29.00	9.00	24.66	45.00	59.00	45.00	53.00
Nodal segment (E_2)	35.66	42.33	25.66	32.33	14.33	28.33	36.00	43.66	55.33	48.33	34.33	53.66

(b)

Plant Growth Regulators (mg/l) (P)	**BAP + IBA (0.25 +0.01)**		**BAP + IBA (0.50 + 0.01)**		**BAP + IBA (0.75+0.01)**		**BAP + IBA (1.00+0.01)**		**BAP + IBA (1.25+0.01)**		**BAP + IBA (1.50+0.01)**	
Media(M)\ Explant (E)	**MS (M_1)**	**WPM (M_2)**	**MS (M_1)**	**WPM (M_2)**	**MS (M_1)**	**WPM (M_2)**	**MS (M_1)**	**WPM (M_2)**	**MS (M_1)**	**WPM (M_2)**	**MS (M_1)**	**WPM (M_2)**
Shoot tip (E_1)	26.66	31.66	15.00	25.66	9.33	27.00	6.66	21.66	29.00	37.00	35.00	45.66
Nodal segment (E_2)	35.33	43.33	24.66	41.33	23.33	40.33	34.66	51.33	46.00	53.66	33.33	63.33
SE(d)									0.81			
SE(m)									0.57			
C.D ($p \leq 0.05$)									1.61			

* Mean value in columns using OPSTAT (version 6.8)at C.D ($p \leq 0.05$).

Table S5. (**a**) Effect of plant growth regulator regime and media type on shoot proliferation(%) and regenerated shoot number in cherry rootstock " GiSelA 17" (*Prunus canescens* × *Prunus avium*). (**b**) Effect of plant growth regulator regime and media type on average shoot length (mm) and Longest shoot length (mm) in cherry rootstock " GiSelA 17" (*Prunus canescens* × *Prunus avium*).

(**a**)

Plant Growth Regulators (mg/l) (P)	Shoot Proliferation (%)		Regenerated shoot number	
	Media (M)			
	MS (M_1)	WPM (M_2)	MS (M_1)	WPM(M_1)
BAP (0.25)	85.00	80.66	7.16	6.63
BAP (0.50)	87.00	81.33	8.06	6.88
BAP (0.75)	92.00	86.33	9.16	7.33
BAP + IBA (0.25 + 0.01)	72.33	68.66	6.06	5.85
BAP + IBA (0.50 + 0.01)	76.16	71.66	6.16	5.91
BAP + IBA (0.75 + 0.01)	82.00	79.00	6.83	6.30
SE(d)	0.53		0.17	
SE(m)	0.37		0.12	
C.D ($p \leq 0.05$)	1.10		0.35	

(**b**)

Plant Growth Regulators (mg/l) (P)	Average shoot length (mm)		Longest shoot length (mm)	
	Media (M)			
	MS (M_1)	WPM (M_2)	MS (M_1)	WPM(M_1)
BAP (0.25)	**15.33**	**12.16**	26.33	23.16
BAP (0.50)	17.16	13.16	28.16	24.16
BAP (0.75)	19.16	16.16	31.16	17.16
BAP + IBA (0.25 + 0.01)	11.26	9.76	22.26	19.76
BAP + IBA (0.50 + 0.01)	11.43	10.70	22.43	21.70
BAP + IBA (0.75 + 0.01)	13.26	12.16	24.26	23.06
SE(d)	0.19		0.19	
SE(m)	0.13		0.13	
C.D ($p \leq 0.05$)	0.40		0.40	

* Mean value in columns using OPSTAT (version 6.8) at C.D ($p \leq 0.05$)

Table S6. Influence of plant growth regulators on Rooting (%), Number of roots (%) & Average root length (mm) in cherry rootstock "GiSelA 17" (*Prunus canescens* × *Prunus avium*).

Plant Growth Regulator (mg/l) (P)	Rooting(%)	Number of roots	Average root length (mm)
IBA (0.5)	82.22	15.24	84.80
IBA (1.0)	86.55	16.85	90.40
IBA (1.5)	98.00	18.11	92.83
IBA (2.0)	75.55	13.60	78.70
IBA (2.5)	62.22	13.36	70.67
IBA (3.0)	52.22	12.46	52.66
SE(d)	2.56	0.50	1.48
SE(m)	1.81	0.35	1.04
C.D ($p \leq 0.05$)	5.65	1.10	3.26

* Mean value in columns using OPSTAT (version 6.8) at C.D ($p \leq 0.05$).