

Table 1 Suppl. Summary of regression analysis. X₁ - concentration X₂ - incubation time. Each value is the mean of 3 replicates, * significant at $P = 0.05$

Substance	Parameter (Y)	Regression equation									R ²
PVP	mitotic index	Y =	10.0	+	0.07	X ₁ *	+	0.07	X ₂	0.20*	
	prophase index	Y =	47.2	-	0.04	X ₁	+	0.16	X ₂	0.02*	
	metaphase index	Y =	22.9	-	0.12	X ₁ *	-	0.46	X ₂ *	0.42*	
	anaphase index	Y =	14.6	+	0.11	X ₁ *	+	0.12	X ₂	0.18*	
	telophase index	Y =	15.4	+	0.06	X ₁	+	0.17	X ₂	0.10*	
	total chromosome aberrations	Y =	5.95	-	0.02	X ₁	+	0.04	X ₂	0.01*	
	spindle disturbance	Y =	4.12	-	0.01	X ₁	+	0.02	X ₂	0.08*	
	clastogenic aberrations	Y =	0.61	+	0.01	X ₁	+	0.02	X ₂	0.02*	
	chromosome stickiness	Y =	1.23	-	0.01	X ₁	+	0.01	X ₂	0.07*	
	relative expression of cdc2 kinase gene	Y =	0.73	+	0.02	X ₁ *	+	0.04	X ₂ *	0.45*	
AgNO ₃	mitotic index	Y =	13.4	-	0.33	X ₁ *	-	0.50	X ₂ *	0.85*	
	prophase index	Y =	43.6	+	0.36	X ₁ *	+	0.78	X ₂ *	0.44*	
	metaphase index	Y =	16.5	+	0.47	X ₁ *	+	0.53	X ₂ *	0.65*	
	anaphase index	Y =	20.2	-	0.46	X ₁ *	-	0.82	X ₂ *	0.81*	
	telophase index	Y =	19.5	-	0.37	X ₁ *	-	0.47	X ₂ *	0.70*	
	total chromosome aberrations	Y =	1.34	+	0.56	X ₁ *	+	0.72	X ₂ *	0.72*	
	spindle disturbance	Y =	1.94	+	0.28	X ₁ *	+	0.30	X ₂ *	0.63*	
	clastogenic aberrations	Y =	0.33	+	0.07	X ₁ *	+	0.05	X ₂	0.40*	
	chromosome stickiness	Y =	0.93	+	0.21	X ₁ *	+	0.37	X ₂ *	0.60*	
	relative expression of cdc2 kinase gene	Y =	1.14	-	0.03	X ₁ *	-	0.04	X ₂ *	0.75*	
AgNPs	mitotic index	Y =	12.6	-	0.15	X ₁ *	-	0.36	X ₂ *	0.66*	
	prophase index	Y =	44.3	+	0.39	X ₁ *	+	0.64	X ₂ *	0.39*	
	metaphase index	Y =	17.1	+	0.58	X ₁ *	+	0.38	X ₂ *	0.64*	
	anaphase index	Y =	18.8	-	0.47	X ₁ *	-	0.56	X ₂ *	0.75*	
	telophase index	Y =	19.7	-	0.49	X ₁ *	-	0.47	X ₂ *	0.71*	
	total chromosome aberrations	Y =	2.66	+	0.33	X ₁ *	+	0.54	X ₂ *	0.66*	
	spindle disturbance	Y =	2.56	+	0.20	X ₁ *	+	0.28	X ₂ *	0.55*	
	clastogenic aberrations	Y =	0.20	+	0.06	X ₁ *	+	0.13	X ₂ *	0.39*	
	chromosome stickiness	Y =	0.31	+	0.07	X ₁ *	+	0.13	X ₂ *	0.38*	
	relative expression of cdc2 kinase gene	Y =	1.28	-	0.02	X ₁ *	-	0.05	X ₂ *	0.52*	

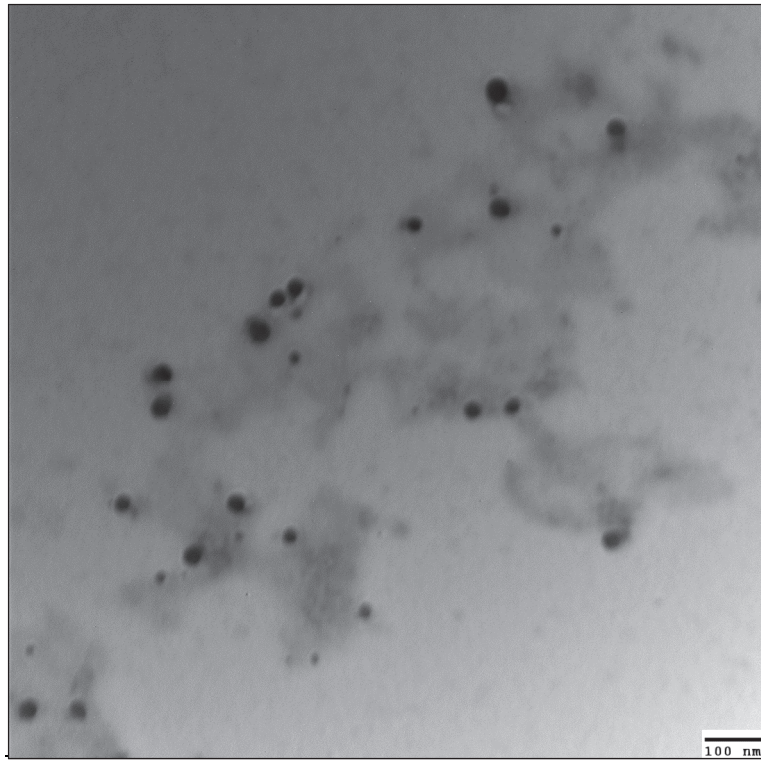


Fig. 1 Suppl. TEM image showing size and shape of AgNPs.

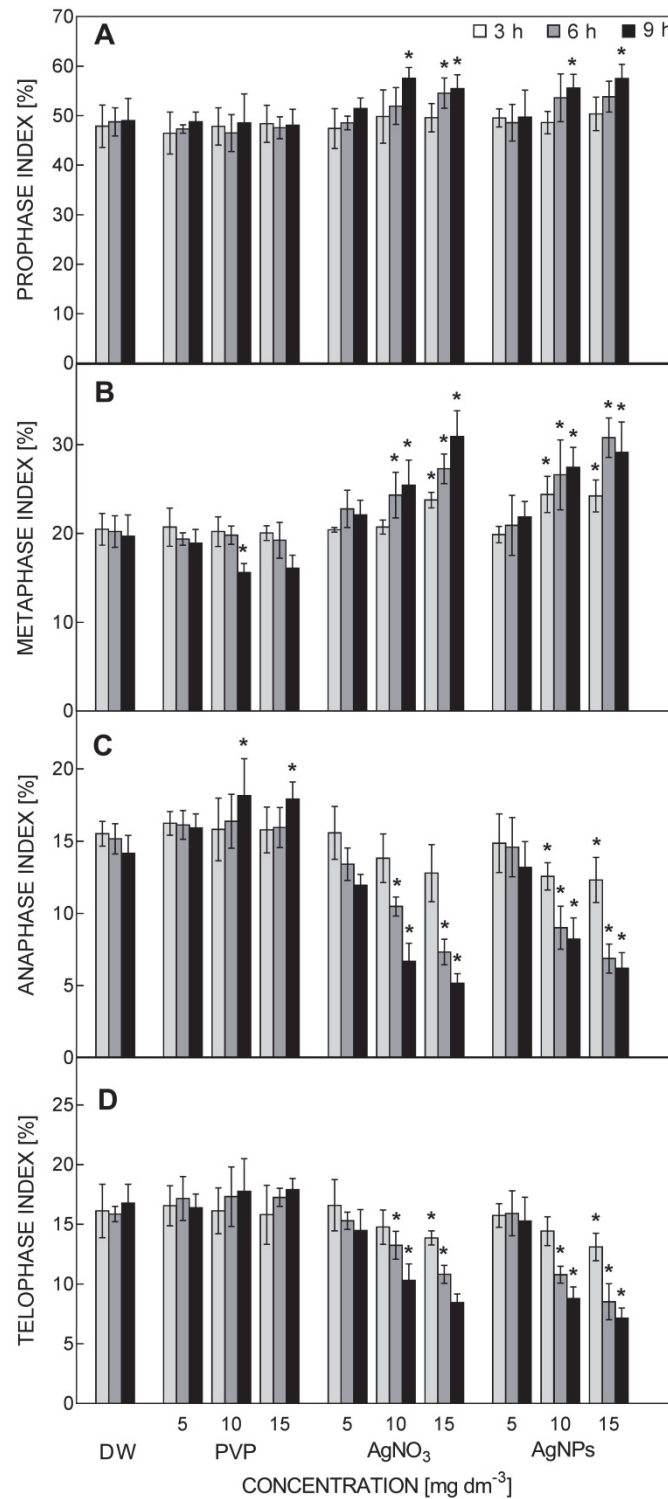


Fig. 2 Suppl. Effect of polyvinylpyrrolidone (PVP), AgNO₃, and Ag nanoparticles (NPs) in different concentrations on prophase index (A), metaphase index (B), anaphase index (C), and telophase index (D). in *Allium cepa* root tips. Values are calculated as percentage per total dividing cells. Means $\pm$ SDs, $n = 3$, * - significantly different, compared with control (DW) at $P = 0.05$.