

Supplemental Materials

Table S1. Average monthly temperatures in the growing season from October 2015 to June 2016 in comparison to average temperatures of 57 years in Poznań Agricultural Research Station, Poland.

Temperature							
Year	Month	Decades				Mean	Average Temperatures from 57 Years
		I	II	III			
2015	October	9,8	6,7	8,1	8,2	8,9	
	November	6,4	9	2,4	5,9	3,8	
	December	6,1	5,1	5,7	5,6	0,1	
2016	January	-6,6	-1,6	2,2	-2,0	-1,2	
	February	5,5	2,2	2,8	3,5	-0,2	
	March	2,5	2,5	6,0	3,7	3,5	
	April	10,2	9,3	6,4	8,6	8,8	
	May	13,7	12,9	19,2	15,3	14,3	
	June	18,1	16,4	20,4	18,3	17,5	

Table S2. Average monthly rainfall in the growing season from October 2015 to June 2016 in comparison to average rainfall of 57 years in Poznań Agricultural Research Station, Poland.

Rainfall							
Year	Month	Decades				Total	Average Rainfall from 57 Years
		I	II	III			
2015	October	0	19	0	19	37,2	
	November	8,7	32,5	12,3	53,5	35,8	
	December	6,7	15,7	4,7	27,1	38,7	
2016	January	6,4	16,2	9,0	31,6	31,5	
	February	6,8	7,6	22,4	36,8	27,7	
	March	18,6	8,0	22,4	49,0	31,7	
	April	10,0	24,0	3,4	37,4	31,0	
	May	16,6	19,4	7,0	43,0	50,5	
	June	9,6	59,4	14,6	83,6	59,4	

Table S3. A comparison of the efficiency of androgenic structures formation (ASF), green plants regeneration (GPR) and albino plants regeneration (APR) of the influence of growth hormones in the induction media (I and II) on regeneration in the anther cultures of the spring and winter wheat based on right-sided (for Spring genotypes) and left-sided (for Winter genotypes) Wilcoxon test.

Spring Genotypes - the Right-Sided Wilcoxon Test			
Parameters	The Value of Wilcoxon's Statistics	p-Value	
ASF (no of androgenic structures/100 plated anthers)	140.5	0.127	
GPR (no of green plants regeneration/100 plated anthers)	103.5	0.656	
APR (no of albino plants regeneration/100 plated anthers)	136.5	0.143	
Winter Genotypes - the Left-Sided Wilcoxon Test			
Parameters	The value of Wilcoxon's statistics	p-value	
ASF (no of androgenic structures/100 plated anthers)	96.5	0.259	
GPR (no of green plants regeneration/100 plated anthers)	94.0	0.207	
APR (no of albino plants regeneration/100 plated anthers)	128.0	0.777	

Table S4. Wilcoxon right-side test comparing efficiency.

Parameters	Spring Genotypes	
	The Value of Wilcoxon's Statistics	<i>p</i> -Value
ASF	18376	0.01024*
GPR	16985	0.1487
APR	18512	< 0.0001***
Winter Genotypes		
ASF	14808	0.9344
GPR	15166	0.9496
APR	16387	0.3245

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05.



Figure S1. Androgenic structures (black arrow) with a green plant developing (white arrow) 14 days after passage to regeneration medium (Ac Abbey spring phenotype). Bar represents 1 mm.

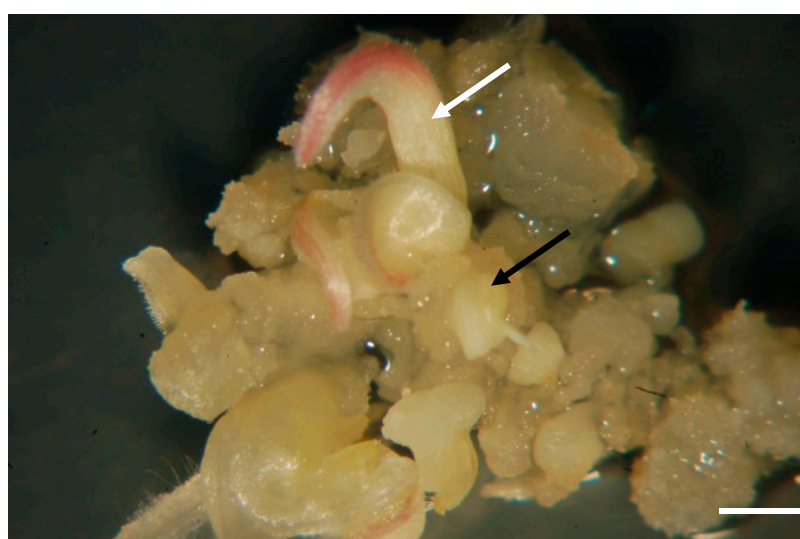


Figure S2. Androgenic structures (black arrow) with an albino plant developing (white arrow) 14 days after passage to regeneration medium (Ac Abbey spring phenotype). Bar represents 1 mm.