

Supplementary materials S

Table S1. Mean values of agronomic parameters with corresponding Standard Errors for each Treatment.

		Treatment										
			GAJ222	GAB111	2066-7	Ach1-1	Ach1-2	GLM10	2332-A1	2515-3	Control+	Control-
Vigor	Ain	Siena	3.0±0.6	1.7±0.6	2.0±0.6	4.3±0.6	4.0±0.6	3.0±0.6	1.7±0.6	2.0±0.6	3.0±0.6	2.0±0.6
		Bellini	4.0±0.6	4.0±0.6	1.3±0.6	3.0±0.6	3.0±0.6	2.0±0.6	1.0±0.6	1.0±0.6	2.0±0.6	1.0±0.6
	Lannocneur	Siena	3.0±0.6	2.0±0.6	1.7±0.6	4.0±0.6	3.7±0.6	3.0±0.6	2.0±0.6	2.0±0.6	3.0±0.6	2.0±0.6
		Bellini	2.0±0.6	1.0±0.6	1.0±0.6	3.0±0.6	2.7±0.6	2.0±0.6	1.0±0.6	1.0±0.6	2.0±0.6	1.3±0.6
Height	Ain	Siena	55.5±2.2	43.7±2.2	41.4±2.2	63.7±2.2	61.4±2.2	55.9±2.2	53.1±2.2	49.8±2.2	57.7±2.2	54.5±2.2
		Bellini	45.5±2.2	33.7±2.2	31.4±2.2	53.7±2.2	51.4±2.2	45.9±2.2	43.1±2.2	39.8±2.2	47.7±2.2	44.5±2.2
	Lannocneur	Siena	35.1±2.2	27.8±2.2	24.4±2.2	37.9±2.2	36.1±2.2	35.9±2.2	26.9±2.2	25.0±2.2	35.3±2.2	33.8±2.2
		Bellini	25.1±2.2	17.8±2.2	14.4±2.2	27.9±2.2	26.1±2.2	25.9±2.2	16.9±2.2	15.0±2.2	25.3±2.2	23.8±2.2
N°Stems	Ain	Siena	5.3±0.9	4.0±0.9	4.3±0.9	6.7±0.9	6.3±0.9	5.0±0.9	4.0±0.9	4.3±0.9	5.3±0.9	4.3±0.9
		Bellini	4.3±0.9	3.0±0.9	3.3±0.9	5.7±0.9	5.3±0.9	4.0±0.9	3.0±0.9	3.3±0.9	4.3±0.9	3.3±0.9
	Lannocneur	Siena	3.3±0.9	2.7±0.9	2.3±0.9	4.7±0.9	4.0±0.9	3.3±0.9	2.0±0.9	2.0±0.9	3.7±0.9	3.0±0.9
		Bellini	3.3±0.9	2.7±0.9	2.3±0.9	4.7±0.9	4.0±0.9	3.3±0.9	2.0±0.9	2.0±0.9	3.7±0.9	3.0±0.9
N°Leaves	Ain	Siena	22.3±1.3	19.7±1.3	18.0±1.3	25.7±1.3	25.0±1.3	22.7±1.3	17.3±1.3	17.3±1.3	21.7±1.3	20.0±1.3
		Bellini	12.3±1.3	9.7±1.3	8.0±1.3	15.7±1.3	15.0±1.3	12.7±1.3	7.3±1.3	7.3±1.3	11.7±1.3	10.0±1.3
	Lannocneur	Siena	14.3±1.3	13.7±1.3	13.0±1.3	17.0±1.3	16.3±1.3	14.0±1.3	13.0±1.3	13.0±1.3	14.3±1.3	13.3±1.3
		Bellini	4.3±1.3	3.3±1.3	3.0±1.3	7.0±1.3	6.3±1.3	4.0±1.3	3.0±1.3	3.0±1.3	4.3±1.3	3.3±1.3
N°Leaflet	Ain	Siena	257.0±21.5	212.3±21.5	215.7±21.5	325.3±21.5	320.0±21.5	252.3±21.5	183.3±21.5	186.0±21.5	256.0±21.5	160.7±21.5
		Bellini	257.0±21.5	212.3±21.5	215.7±21.5	325.3±21.5	320.0±21.5	252.3±21.5	183.3±21.5	186.0±21.5	256.0±21.5	160.7±21.5
	Lannocneur	Siena	275.7±21.5	229.7±21.5	230.0±21.5	332.3±21.5	320.3±21.5	284.0±21.5	239.3±21.5	216.3±21.5	275.0±21.5	203.0±21.5
		Bellini	175.7±21.5	129.7±21.5	130.0±21.5	232.3±21.5	220.3±21.5	184.0±21.5	139.3±21.5	116.3±21.5	175.0±21.5	103.0±21.5
Chlorophyll	Ain	Siena	40.0±2.4	38.8±2.4	37.1±2.4	46.8±2.4	44.4±2.4	41.9±2.4	30.9±2.4	35.8±2.4	42.4±2.4	39.4±2.4
		Bellini	30.0±2.4	28.8±2.4	27.1±2.4	36.8±2.4	34.4±2.4	31.9±2.4	20.9±2.4	25.8±2.4	32.4±2.4	29.4±2.4
	Lannocneur	Siena	22.8±2.4	18.7±2.4	17.7±2.4	28.3±2.4	27.8±2.4	22.4±2.4	18.4±2.4	16.2±2.4	22.5±2.4	20.4±2.4
		Bellini	12.8±2.4	8.7±2.4	7.7±2.4	18.3±2.4	17.8±2.4	12.4±2.4	8.4±2.4	6.2±2.4	12.5±2.4	10.4±2.4
Yield	Ain	Siena	16.9±1.1	14.1±1.1	14.1±1.1	19.9±1.1	19.0±1.1	17.0±1.1	11.1±1.1	14.7±1.1	17.3±1.1	14.6±1.1
		Bellini	16.2±1.1	13.1±1.1	13.0±1.1	18.9±1.1	18.0±1.1	16.0±1.1	10.1±1.1	13.7±1.1	16.3±1.1	13.6±1.1
	Lannocneur	Siena	12.1±1.1	11.9±1.1	11.0±1.1	13.5±1.1	13.1±1.1	12.6±1.1	11.9±1.1	13.6±1.1	12.7±1.1	11.6±1.1
		Bellini	11.1±1.1	10.9±1.1	10.0±1.1	12.5±1.1	12.1±1.1	11.6±1.1	10.9±1.1	12.6±1.1	11.7±1.1	10.6±1.1
Damaged Tubers	Ain	Siena	4.0±1.1	5.3±1.1	7.0±1.1	1.7±1.1	2.0±1.1	4.0±1.1	5.0±1.1	6.0±1.1	4.0±1.1	7.3±1.1
		Bellini	3.0±1.1	4.3±1.1	6.0±1.1	1.0±1.1	1.0±1.1	3.0±1.1	4.0±1.1	5.0±1.1	3.0±1.1	6.3±1.1
	Lannocneur	Siena	5.0±1.1	6.7±1.1	8.3±1.1	3.3±1.1	3.3±1.1	5.0±1.1	6.0±1.1	8.0±1.1	5.0±1.1	8.7±1.1
		Bellini	4.0±1.1	5.7±1.1	7.3±1.1	2.3±1.1	2.3±1.1	4.0±1.1	5.0±1.1	7.0±1.1	5.0±1.1	7.7±1.1

Table S2. Analysis of variance (ANOVA) for all agronomic parameters.

	Vigor				Height				N°Stems				N°Leaves				N°Leaflets				Chlorophyll			
	Type III SS	ddl	D	Sig.	Type III SS	ddl	D	Sig.	Type III SS	ddl	D	Sig.	Type III SS	ddl	D	Sig.	Type III SS	ddl	D	Sig.	Type III SS	ddl	D	Sig.
Site	2,408	1	2,369	,128	14327,045***	1	944,137	,000	104,533***	1	41,953	,000	1380,408***	1	276,303	,000	175950,208***	1	126,775	,000	9968,164***	1	583,357	,000
Variety	14,008***	1	13,779	,000	2992,005***	1	197,170	,000	30,000**	1	12,040	,001	3010,008***	1	602,484	,000	301702,408***	1	217,382	,000	2995,002***	1	175,274	,000
Treatment	70,508***	9	7,706	,000	3770,912***	9	27,611	,000	86,533***	9	3,859	,000	512,742***	9	11,403	,000	262226,675***	9	20,993	,000	1865,165***	9	12,128	,000
Site--	1,875	1	1,844	,178	,000	1	,000	,996	0,000	1	0,000	1,000	,008	1	,002	,968	2,408	1	,002	,967	,002	1	,000	,991
Variety																								
Site--	6,842	9	,748	,664	360,836	9	2,642	,010	3,467	9	,155	,998	84,008	9	1,868	,069	7168,208	9	,574	,815	144,298	9	,938	,497
Treatment																								
Variety--	8,908	9	,974	,468	,010	9	,000	1,000	0,000	9	0,000	1,000	,075	9	,002	1,000	24,675	9	,002	1,000	,024	9	,000	1,000
Treatment																								
Site--	9,708	9	1,061	,401	,015	9	,000	1,000	0,000	9	0,000	1,000	,075	9	,002	1,000	24,675	9	,002	1,000	,014	9	,000	1,000
Variety--																								
Treatment																								
Error	81,333	80			1213,980	80			199,333	80			399,680	80			111031,333	80			1367,007	80		

,* Significance at p-value < 0.01 and p-value < 0.001, respectively.