

Table S1: Profiles of sugar content in flesh (g/100 g fresh weight (FW)) and peel (g /100 g dry weight (DW)) during 2016, 2017 and 2019.

Flesh 2016 FW	Fructose			Glucose			Sucrose			Total		
Genotype	mean	sd	Sign.	mean	sd	Sign.	mean	sd	Sign.	mean	sd	Sign.
Goldrich	0.23	0.04	ef	1.34	0.24	c	5.52	0.01	bc	7.09	0.29	bcd
Canino	0.08	0.01	a	0.68	0.03	a	7.08	0.23	d	7.85	0.27	de
Mitger	0.38	0.04	g	1.89	0.04	de	4.24	0.16	a	6.52	0.16	ab
Tadeo	0.48	0.02	h	3.11	0.06	g	7.16	0.55	d	10.75	0.48	g
Dama Rosa	0.24	0.01	ef	2.20	0.03	f	8.62	0.72	e	11.06	0.68	g
Dama Taronja	0.29	0.04	f	2.08	0.08	ef	6.89	0.18	d	9.25	0.06	f
GG9310	0.17	0.02	bcde	1.02	0.06	b	6.78	0.37	d	7.97	0.45	de
GG979	0.10	0.01	ab	1.29	0.00	c	4.47	0.23	a	5.86	0.22	a
GP9817	0.15	0.02	bcd	1.02	0.06	b	6.38	0.28	cd	7.55	0.32	cde
HG9821	0.20	0.01	de	1.16	0.01	bc	6.75	0.16	d	8.11	0.15	e
HG9850	0.13	0.01	abc	0.98	0.03	b	4.65	0.01	ab	5.75	0.03	a
HM964	0.20	0.01	cde	0.94	0.01	b	5.50	0.10	bc	6.64	0.10	abc
SEOP934	0.28	0.02	f	1.76	0.05	d	10.30	0.03	f	12.34	0.04	h
MAX	0.48			3.11			10.30			12.34		
MIN	0.08			0.68			4.24			5.75		

Peel 2016 DW	Fructose			Glucose			Sucrose			Total		
Genotype	mean	sd	Sign.	mean	sd	Sign.	mean	sd	Sign.	mean	sd	Sign.
Goldrich	7.03	0.94	d	18.75	2.54	de	12.41	1.34	a	38.19	4.67	a
Canino	2.85	0.04	a	12.62	0.89	b	33.13	1.84	f	48.60	2.71	bcd
Mitger	6.07	0.39	cd	20.94	0.76	ef	23.20	1.45	bcde	50.21	1.10	cd
Tadeo	4.95	0.35	bc	23.66	0.40	f	26.39	1.34	cde	57.86	1.73	d
Dama Rosa	4.87	0.74	bc	19.32	3.05	def	18.16	1.89	ab	42.36	5.66	abc
Dama Taronja	4.61	0.18	b	18.30	0.18	cde	17.30	0.87	ab	40.21	0.75	ab
GG9310	4.46	0.28	b	13.75	2.35	bc	22.56	0.88	bcd	40.77	1.91	abc
GG979	3.84	0.68	ab	13.06	0.90	b	21.22	1.12	bc	40.31	2.22	ab
GP9817	4.29	0.11	b	13.94	0.77	bc	26.22	2.12	cde	44.44	2.80	abc
HG9821	4.99	0.22	bc	12.71	0.33	b	28.59	0.72	def	46.29	0.45	abc
HG9850	3.77	0.04	ab	18.02	0.32	cde	25.99	2.41	cde	47.78	2.31	abc
HM964	3.69	0.29	ab	7.83	0.99	a	28.31	2.64	def	43.41	2.25	abc
SEOP934	3.89	0.11	ab	15.54	1.26	bcd	28.96	4.35	ef	48.39	5.61	bcd
MAX	7.03			23.66			33.13			57.86		
MIN	2.85			7.83			12.41			38.19		

Peel 2017 DW	Fructose			Glucose			Sucrose			Total		
Genotype	mean	sd	Sign.	mean	sd	Sign.	mean	sd	Sign.	mean	sd	Sign.
Goldrich	6.30	0.50	de	10.01	0.98	ab	4.63	0.33	a	23.68	1.20	ab
Canino	4.75	0.64	bc	15.92	1.97	d	27.11	0.51	de	47.78	2.76	d
Mitger	6.02	0.35	cde	24.48	1.53	e	31.96	2.95	ef	62.46	1.80	fg
Tadeo	6.64	0.11	e	15.75	0.49	d	23.70	0.43	d	53.27	0.27	de
Dama Rosa	2.73	0.11	a	6.24	0.57	a	7.83	0.22	ab	16.80	0.50	a
Dama Taronja	6.48	0.38	de	14.41	0.18	bcd	11.50	0.93	bc	32.39	1.12	bc
GG9310	5.72	0.04	bcde	10.69	0.37	abc	16.57	0.33	c	32.97	0.34	c
GG979	6.54	0.67	de	9.41	0.66	a	14.85	1.40	c	31.89	0.21	bc
GP9817	6.90	0.59	e	14.69	1.30	cd	16.09	1.15	c	37.68	2.92	c
HG9821	6.28	0.29	de	14.58	1.85	bcd	46.88	4.77	g	67.74	6.76	g
HG9850	4.85	0.72	bc	14.28	2.25	bcd	30.37	1.12	ef	49.50	1.67	de
HM964	4.58	0.42	b	16.75	2.93	d	36.43	1.84	f	57.76	4.80	ef
SEOP934	5.21	0.24	bcd	9.62	0.12	a	16.07	2.98	c	32.70	3.56	bc
MAX	6.90			24.48			46.88			67.74		
MIN	2.73			6.24			4.63			16.80		

Peel 2019 DW	Fructose			Glucose			Sucrose			Total		
Genotype	mean	sd	Sign.	mean	sd	Sign.	mean	sd	Sign.	mean	sd	Sign.
Goldrich	6.63	0.74	f	18.93	1.55	c	17.80	0.75	a	43.37	2.86	abc
Canino	2.26	0.28	a	14.65	0.46	abc	45.03	1.44	e	61.93	1.84	de
Mitger	6.03	0.33	ef	29.66	0.77	d	25.74	2.06	bcd	61.43	1.71	de
Tadeo	4.97	0.24	cde	27.17	0.46	d	32.46	0.16	d	64.60	0.75	e
Dama Rosa	5.43	0.32	def	18.01	1.23	c	27.66	0.81	cd	51.11	2.09	bcd
Dama Taronja	5.46	0.22	def	16.87	1.50	bc	17.88	0.75	a	40.21	2.46	ab
GG9310	3.10	0.62	ab	11.63	0.79	a	24.68	2.75	abc	39.41	3.73	a
GG979	4.92	0.60	cde	11.18	2.04	a	30.76	3.75	cd	46.87	5.73	abc
GP9817	4.97	0.73	cde	16.54	0.06	bc	19.17	0.91	ab	40.68	1.63	ab
HG9821	6.62	0.30	f	13.37	1.83	ab	31.16	0.08	cd	51.15	1.70	bcd
HG9850	4.38	0.44	bcd	16.98	2.66	bc	31.56	5.08	cd	52.93	7.61	cd
HM964	2.99	0.44	ab	12.96	1.43	ab	24.36	2.68	abc	40.31	3.60	ab
SEOP934	3.83	0.17	bc	18.23	1.09	c	24.62	2.53	abc	46.68	3.36	abc
MAX	6.63			29.66			45.03			64.60		
MIN	2.26			11.18			17.80			39.41		