

Supplementary Data S3. The volatile compositions (Mol%) from the albino half-sibs and the green half-sibs of *Camellia sinensis* cv *Baijiguan*.

Pathway	RT	Compound	Contents ((Mol%))											
y	(min)		0306C	0306D	0306F	0306I	0317L	0317N	0306A	0306B	0306H	0306L	0309A	0317D
Phenylpropanoid	10.15	Benzyl alcohol	16.78±1.00	23.46±1.95	32.63±3.81	46.88±0.75	34.50±1.20	17.35±2.03	36.59±1.88	19.71±2.04	59.94±2.79	20.13±1.73	44.29±0.80	16.98±0.92
	12.57	Phenylethyl Alcohol	66.52±1.13	66.37±2.02	24.20±3.96	24.54±0.84	50.10±1.12	48.68±0.76	48.51±1.68	52.21±2.47	30.10±2.21	68.96±1.75	45.78±0.51	60.54±1.77
	15.04	Methyl salicylate	16.05±0.60	8.81±0.23	40.23±3.00	26.70±0.61	14.80±0.28	31.93±2.59	13.29±0.70	25.23±2.66	9.01±0.60	10.41±0.11	9.47±0.34	21.86±1.20
	18.84	Indole	0.45±0.04	0.85±0.06	1.82±0.26	1.16±0.19	0.60±0.02	2.04±0.09	1.09±0.07	1.29±0.02	0.68±0.02	0.49±0.04	0.46±0.04	0.43±0.09
	22.38	Coumarin	0.20±0.02	0.51±0.03	1.12±0.17	0.72±0.16	nd	nd	0.53±0.04	1.56±0.20	0.27±0.02	nd	nd	0.19±0.03
		subtotal	100	100	100	100	100	100	100	100	100	100	100	100
MEP	8.82	(E)-β-Ocimene	5.24±0.27	10.15±1.17	7.60±0.88	5.93±0.68	5.30±0.07	16.82±5.27	5.63±1.02	33.83±3.70	9.97±1.01	9.15±0.73	4.52±1.96	4.62±0.69
	9.61	α-Terpinene	0.00±0.00	0.00±0.00	0.00±0.00	0.00±0.00	0.00±0.00	6.02±1.52	0.00±0.00	0.00±0.00	0.00±0.00	0.00±0.00	0.75±0.10	0.00±0.00
	10.41	cis-Linalool oxide (furanoid)	21.65±2.29	39.01±2.02	40.57±4.86	40.57±1.23	28.68±1.22	40.28±2.88	25.10±0.58	9.74±4.60	15.65±1.48	29.50±1.16	24.63±3.78	14.94±1.29
	11.30	trans-Linalool oxide (furanoid)	16.17±0.5	12.95±1.27	14.01±1.74	12.31±0.53	14.82±0.53	6.15±0.75	14.71±0.16	10.22±1.56	11.90±0.61	11.99±0.29	6.22±0.48	17.11±0.31
	11.79	Linalool	32.98±0.97	24.20±1.71	31.72±3.80	30.26±1.05	29.32±0.21	9.52±0.91	35.93±0.63	20.55±1.58	28.58±1.59	25.13±1.19	15.32±0.94	39.10±0.28
	14.36	cis-Linalool oxide (pyranoid)	nd	nd	nd	nd	0.43±0.02	nd	nd	nd	0.45±0.05	nd	0.87±0.14	nd
	14.50	trans-Linalool oxide (pyranoid)	5.68±0.20	4.55±0.47	0.00±0.00	3.59±0.13	5.07±0.07	2.32±0.14	5.10±0.29	0.00±0.00	5.94±0.34	3.63±0.08	4.00±0.29	6.83±0.36
	16.76	Geraniol	13.65±1.1	3.80±0.83	0.00±0.00	2.84±0.26	12.00±0.71	7.55±0.99	8.42±0.48	14.79±1.82	25.31±1.25	14.23±1.33	40.55±4.25	14.20±0.96

	17.13	Nerol	2.94±0.13	1.10±0.17	1.41±0.31	1.77±0.19	1.69±0.39	3.80±0.68	2.93±0.51	7.30±0.65	0.63±0.09	2.94±0.29	0.45±0.05	2.13±0.20
	17.51	Neral	1.05±0.06	2.86±0.15	1.94±0.23	1.71±0.15	1.66±0.12	4.53±0.48	1.53±0.10	2.61±0.24	0.82±0.02	2.15±0.16	1.64±0.08	0.43±0.04
	34.92	Geranylinalool	0.21±0.01	0.52±0.09	0.44±0.12	0.42±0.02	0.31±0.03	0.91±0.19	0.32±0.04	0.00±0.00	0.46±0.08	0.64±0.21	0.37±0.09	0.13±0.01
	30.88	Neophytadiene	0.44±0.21	0.86±0.39	2.32±1.62	0.61±0.19	0.73±0.45	2.10±0.63	0.34±0.07	0.95±0.38	0.29±0.16	0.63±0.22	0.69±0.14	0.51±0.21
		Subtotal	100	100	100	100	100	100	100	100	100	100	100	100
MVA	20.60	α-Copaene	4.73±0.58	5.06±0.62	0.00±0.00	3.51±0.46	6.77±0.51	3.94±0.15	4.59±0.20	12.30±1.02	5.11±0.12	4.41±0.23	3.32±0.43	10.52±1.97
	21.66	Caryophyllene	nd	nd	nd	nd	6.02±0.51	nd	3.83±0.39	8.20±0.71	3.46±0.22	nd	4.07±0.61	nd
	22.44	Humulene	33.72±4.2	25.19±1.66	0.00±0.00	27.82±0.94	27.96±0.28	35.77±1.35	29.61±1.06	21.95±0.49	6.45±0.28	36.66±1.45	23.19±2.01	8.18±1.87
		6												
	22.60	β-Farnesene	6.59±0.70	7.53±0.79	6.38±1.03	7.82±0.28	5.22±0.24	5.25±0.16	7.22±0.54	6.40±0.14	12.41±0.70	4.24±0.23	3.70±0.14	7.07±0.98
	23.68	Germacrene D	nd	3.15±0.22	5.28±1.36	3.58±0.36	3.32±0.16	3.73±0.15	nd	nd	nd	nd	2.11±0.22	6.75±0.69
	23.43	α-Muurolene	0.00±0.00	3.37±0.31	3.77±0.97	0.00±0.00	0.00±0.00	0.00±0.00	3.70±0.17	0.00±0.00	5.78±0.23	0.00±0.00	0.00±0.00	0.00±0.00
	24.25	α-Farnesene	17.90±1.2	21.49±1.23	21.75±3.44	22.75±2.01	18.76±1.49	22.69±0.42	20.74±0.63	12.49±1.01	31.67±0.41	19.57±0.74	11.60±0.70	15.20±1.80
		0												
	24.48	δ-Cadinene	3.76±0.58	3.54±0.19	3.89±1.14	2.80±0.07	4.44±0.48	0.00±0.00	4.73±0.45	13.09±1.09	4.35±0.19	0.00±0.00	2.31±0.22	8.64±0.78
	24.56	α-Cadinene	4.99±0.56	9.06±1.06	nd	nd	7.79±0.61	8.46±0.58	8.32±0.26	7.51±0.46	11.85±0.34	6.88±0.46	5.81±0.36	nd
	24.93	(E)-Nerolidol	0.00±0.00	5.55±0.33	5.08±0.58	5.38±0.25	7.10±0.35	4.10±0.45	4.84±0.22	3.23±0.13	4.71±0.66	7.26±0.34	4.62±0.39	5.69±0.56
	25.11	Caryophyllene	nd	nd	4.60±0.93	4.23±0.15	nd	4.82±0.32	nd	2.96±0.03	6.25±0.28	nd	3.65±0.58	4.45±0.58
		oxide												
	25.55	Germacrene B	16.81±2.5	3.42±0.37	6.81±1.44	5.67±0.44	6.57±1.15	3.82±0.10	4.06±0.23	7.22±0.67	nd	12.77±2.26	30.57±5.11	nd
		6												
	26.49	Cubebol	nd	nd	nd	nd	6.06±0.27	7.42±0.07	nd	nd	7.97±0.53	8.21±0.28	5.03±0.36	nd
	27.05	α-Cadinol	11.52±5.2	12.63±4.13	42.44±10.40	16.45±3.10	nd	nd	8.36±2.12	4.65±1.31	nd	nd	nd	33.50±7.36
		4												
		Subtotal	100	100	100	100	100	100	100	100	100	100	100	100

20.44	cis-3-hexenyl hexanoate	23.99±1.0 1	18.42±0.71	17.92±2.64	16.86±2.45	19.54±1.10	22.70±0.51	18.77	15.77±0.75	22.95±1.40	28.51±0.96	22.68±1.13	0.00±0.00
21.05	cis-Jasmone	59.77±3.0 0	66.83±1.34	62.03±1.54	61.17±4.79	80.46±1.10	77.30±0.51	60.66	72.05±0.81	77.05±1.40	71.49±0.96	77.32±1.13	0.00±0.00
33.41	Hexadecanoic acid, methyl ester	16.24±2.0 4	14.75±1.98	20.05±3.90	21.97±2.42	nd	nd	20.58	12.18±0.93	nd	nd	nd	100.00±0.00
	subtotal	100	100	100	100	100	100	100	100	100	100	100	100

Data were expressed as mean ± standard error (n = 4). nd, not detected.