

Table S3. SNP information statistics of 168 *Hedychium* samples

Sample NO.	Total	Homo	Hete	Homo rate(%)	Hete rate(%)
1-1	133083	36655	96428	27.54	72.46
1-2	140324	38073	102251	27.13	72.87
1-3	158024	44425	113599	28.11	71.89
1-4	154494	43510	110984	28.16	71.84
1-5	183649	57343	126306	31.22	68.78
1-6	164939	48333	116606	29.3	70.7
2-1	213974	93788	120186	43.83	56.17
2-2	198750	87549	111201	44.05	55.95
2-3	165404	76472	88932	46.23	53.77
2-4	199637	104362	95275	52.28	47.72
2-5	155207	43743	111464	28.18	71.82
2-6	245863	108301	137562	44.05	55.95
3-1	382474	230240	152234	60.2	39.8
3-2	427701	253940	173761	59.37	40.63
3-3	404304	241643	162661	59.77	40.23
3-4	421991	248356	173635	58.85	41.15
3-5	374600	226144	148456	60.37	39.63
3-6	336023	205279	130744	61.09	38.91
4-1	258805	143586	115219	55.48	44.52
4-2	488909	281482	207427	57.57	42.43
4-3	437434	270378	167056	61.81	38.19
4-4	480954	291451	189503	60.6	39.4
4-5	483671	301904	181767	62.42	37.58
4-6	510277	293792	216485	57.58	42.42
5-1	410280	242304	167976	59.06	40.94
5-2	360982	219028	141954	60.68	39.32
5-3	331230	203856	127374	61.55	38.45
5-4	389045	232007	157038	59.64	40.36
5-5	420415	252676	167739	60.1	39.9
5-6	436230	258621	177609	59.29	40.71
6-1	490522	300573	189949	61.28	38.72
7-1	99698	91627	8071	91.9	8.1
7-2	112510	101520	10990	90.23	9.77
8-1	394363	230060	164303	58.34	41.66
9-1	193197	103505	89692	53.57	46.43
10-1	98677	8984	89693	9.1	90.9
11-1	257883	170164	87719	65.98	34.02
12-1	447799	288308	159491	64.38	35.62
13-1	310297	238244	72053	76.78	23.22
13-2	314638	242162	72476	76.97	23.03
13-3	255764	197592	58172	77.26	22.74
13-4	252323	195189	57134	77.36	22.64

Table S3. SNP information statistics of 168 *Hedychium* samples

Sample NO.	Total	Homo	Hete	Homo rate(%)	Hete rate(%)
14-1	253969	142021	111948	55.92	44.08
14-2	295140	165949	129191	56.23	43.77
14-3	273966	152947	121019	55.83	44.17
14-4	274692	153394	121298	55.84	44.16
14-5	240876	133551	107325	55.44	44.56
14-6	219985	122728	97257	55.79	44.21
14-7	226982	125317	101665	55.21	44.79
14-8	250167	139797	110370	55.88	44.12
14-9	246583	137938	108645	55.94	44.06
14-10	286744	162181	124563	56.56	43.44
14-11	257690	142408	115282	55.26	44.74
15-1	371628	211738	159890	56.98	43.02
15-2	359298	231141	128157	64.33	35.67
15-3	321040	206673	114367	64.38	35.62
15-4	287182	187480	99702	65.28	34.72
15-5	314612	202171	112441	64.26	35.74
15-6	346304	222710	123594	64.31	35.69
16-1	179182	92096	87086	51.4	48.6
16-2	228761	137751	91010	60.22	39.78
16-3	209758	125357	84401	59.76	40.24
16-4	208085	124195	83890	59.68	40.32
16-5	180089	109008	71081	60.53	39.47
16-6	166301	101739	64562	61.18	38.82
17-1	168644	93737	74907	55.58	44.42
17-2	235635	115621	120014	49.07	50.93
17-3	178487	79894	98593	44.76	55.24
17-4	216505	122626	93879	56.64	43.36
17-5	201736	113638	88098	56.33	43.67
17-6	203377	113353	90024	55.74	44.26
18-1	219850	113970	105880	51.84	48.16
18-2	208313	112781	95532	54.14	45.86
18-3	273812	149076	124736	54.44	45.56
18-4	226995	122922	104073	54.15	45.85
18-5	225477	123956	101521	54.98	45.02
18-6	260582	143406	117176	55.03	44.97
19-1	181676	89224	92452	49.11	50.89
19-2	192605	104939	87666	54.48	45.52
19-3	166534	90259	76275	54.2	45.8
19-4	145682	80557	65125	55.3	44.7
19-5	161939	87763	74176	54.2	45.8
19-6	190065	101378	88687	53.34	46.66
20-1	371996	216914	155082	58.31	41.69

Table S3. SNP information statistics of 168 *Hedychium* samples

Sample NO.	Total	Homo	Hete	Homo rate(%)	Hete rate(%)
20-2	200776	131975	68801	65.73	34.27
20-3	181430	128665	52765	70.92	29.08
20-4	203871	144376	59495	70.82	29.18
20-5	248849	176769	72080	71.03	28.97
20-6	241887	162643	79244	67.24	32.76
21-1	187810	97073	90737	51.69	48.31
21-2	164707	84189	80518	51.11	48.89
21-3	151202	78337	72865	51.81	48.19
21-4	174699	89357	85342	51.15	48.85
21-5	168635	87225	81410	51.72	48.28
21-6	277396	154310	123086	55.63	44.37
22-1	259332	142731	116601	55.04	44.96
22-2	267706	146834	120872	54.85	45.15
22-3	346953	203259	143694	58.58	41.42
22-4	302952	177395	125557	58.56	41.44
22-5	333574	194259	139315	58.24	41.76
23-1	398502	246531	151971	61.86	38.14
23-2	391358	242656	148702	62	38
23-3	450157	276015	174142	61.32	38.68
23-4	421051	260380	160671	61.84	38.16
23-5	408688	250411	158277	61.27	38.73
23-6	380108	234491	145617	61.69	38.31
24-1	162222	77795	84427	47.96	52.04
24-2	210083	106834	103249	50.85	49.15
24-3	174526	86251	88275	49.42	50.58
24-4	173479	85623	87856	49.36	50.64
24-5	146184	70988	75196	48.56	51.44
24-6	131816	64694	67122	49.08	50.92
25-1	168770	79338	89432	47.01	52.99
25-2	155980	74533	81447	47.78	52.22
25-3	186393	89102	97291	47.8	52.2
25-4	192506	91364	101142	47.46	52.54
25-5	191705	90343	101362	47.13	52.87
25-6	238132	163709	74423	68.75	31.25
26-1	245444	171924	73520	70.05	29.95
26-2	216538	150976	65562	69.72	30.28
26-3	197316	139760	57556	70.83	29.17
26-4	189315	131591	57724	69.51	30.49
26-5	197351	127188	70163	64.45	35.55
27-1	197087	127797	69290	64.84	35.16
27-2	185776	121582	64194	65.45	34.55
27-3	192386	124250	68136	64.58	35.42

Table S3. SNP information statistics of 168 *Hedychium* samples

Sample NO.	Total	Homo	Hete	Homo rate(%)	Hete rate(%)
27-4	213802	138882	74920	64.96	35.04
27-5	201229	132122	69107	65.66	34.34
28-1	223117	130169	92948	58.34	41.66
28-2	208109	106968	101141	51.4	48.6
28-3	220733	121007	99726	54.82	45.18
28-4	183318	99939	83379	54.52	45.48
28-5	219960	124529	95431	56.61	43.39
28-6	152635	96489	56146	63.22	36.78
29-1	207232	140743	66489	67.92	32.08
29-2	206541	130426	76115	63.15	36.85
29-3	227784	142856	84928	62.72	37.28
29-4	233899	144576	89323	61.81	38.19
29-5	232807	149219	83588	64.1	35.9
29-6	4445	3824	621	86.03	13.97
30-1	239931	135347	104584	56.41	43.59
30-2	274411	151943	122468	55.37	44.63
30-3	297148	166935	130213	56.18	43.82
30-4	248921	143204	105717	57.53	42.47
30-5	287071	169454	117617	59.03	40.97
30-6	290511	164428	126083	56.6	43.4
31-1	192798	117905	74893	61.15	38.85
31-2	170749	106961	63788	62.64	37.36
31-3	230242	141585	88657	61.49	38.51
31-4	217416	134367	83049	61.8	38.2
31-5	209630	126157	83473	60.18	39.82
31-6	202796	123811	78985	61.05	38.95
32-1	158290	90987	67303	57.48	42.52
32-2	154447	87121	67326	56.41	43.59
32-3	185426	104381	81045	56.29	43.71
32-4	167224	93130	74094	55.69	44.31
32-5	153440	85610	67830	55.79	44.21
32-6	137784	80935	56849	58.74	41.26
33-1	229005	149031	79974	65.08	34.92
33-2	189722	129184	60538	68.09	31.91
33-3	235694	158901	76793	67.42	32.58
33-4	232207	154297	77910	66.45	33.55
33-5	200776	131975	68801	65.73	34.27
33-6	181430	128665	52765	70.92	29.08
34-1	203871	144376	59495	70.82	29.18
34-2	248849	176769	72080	71.03	28.97
35-1	241887	162643	79244	67.24	32.76
35-2	187810	97073	90737	51.69	48.31

Note: Sample NO. represents the sample identifier used in this study. Total indicates the total number of SNP loci detected in each sample after SNP calling. Homo indicates the number of homozygous SNP loci, and Hete indicates the number of heterozygous SNP loci. Homo rate (%) represents the proportion of homozygous SNP loci among the total SNP loci detected in each sample, calculated as $\text{Homo} / \text{Total} \times 100$. Hete rate (%) represents the proportion of heterozygous SNP loci among the total SNP loci detected in each sample, calculated as $\text{Hete} / \text{Total} \times 100$.