









Table S2. Relative frequencies of the main pollen types in honeys.

	SAMPLE CODE					
	A	B	C	D	E	F
<b>Dominant pollen (&gt;45%)</b>	<i>Rhododendron</i> (47.18)	<i>Rubus</i> (67.12)	<i>Rhododendron</i> (62.93)			<i>Castanea</i> (96.4)
<b>Secondary pollen (16–45%)</b>	<i>Pedicularis</i> (26.47)	<i>Rhododendron</i> (21.24)	<i>Rubus</i> (17.24)	<i>Rhododendron</i> (34.27) <i>Rubus</i> (34.74)	<i>Rhododendron</i> (34.14) <i>Rubus</i> (44.25)	<i>Ericaceae</i> (32.45) <i>Rubus</i> (38.59)
<b>Important minor pollen (3–15%)</b>	<i>Lotus alpinus</i> (9.17) <i>Rubus</i> (11.83)	<i>Cruciferae: Cardamine</i> f. (3.31)	<i>Lotus alpinus</i> (3.72) <i>Trifolium repens</i> gr. (8.62)	<i>Anthyllis</i> f. (14.23) <i>Campanulaceae: Campanula</i> , <i>Phyteuma</i> (5.1) <i>Pedicularis</i> (4.17) <i>Potentilla/fragaria</i> (3.1)	<i>Lotus alpinus</i> (5.22) <i>Trifolium repens</i> gr. (3.48) <i>Hippocrepis/Coronilla</i> (3.13)	<i>Potentilla/fragaria</i> (3.47) <i>Sorbus</i> f. (6.14) <i>Tilia</i> (3.5) <i>Trifolium repens</i> gr. (4.38)
<b>Minor pollen (&lt;3%)</b>	<i>Clematis</i> (2.21)	<i>Pedicularis</i> (1.73) <i>Sorbus</i> f. (1.75) <i>Umbelliferae: Anthriscus</i> f. (1.7)	<i>Campanulaceae: Campanula</i> , <i>Phyteuma</i> (1.1) <i>Pedicularis</i> (2.1)	<i>Centaurea</i> (2.00) <i>Polygonum bistorta</i> (2.3)	<i>Liliaceae: Lilium, Allium</i> , <i>Maianthemum</i> f. (2.78) <i>Onobrychis</i> (2.09) <i>Potentilla/fragaria</i> (2.43)	<i>Clematis</i> (1.7) <i>Polygonum bistorta</i> (1.75) <i>Campanulaceae: Campanula</i> , <i>Phyteuma</i> (1.7)
<b>Sporadic pollen (1% or less)</b>	<i>Acer</i> <i>Ailanthus</i> <i>Aster/Solidago</i> <i>Astragalus</i> <i>Campanulaceae: Campanula</i> , <i>Phyteuma</i> <i>Castanea</i> <i>Centaurea</i> <i>Chamaerops</i> <i>Chenopodium/Amaranthus</i> <i>Compositae S: Carduus</i> , <i>Cirsium</i> f. <i>Dryas</i> f. <i>Filipendula</i> <i>Gleditsia</i> <i>Graminaceae</i> <i>Hypericum</i> f. <i>Juniperus</i> <i>Linaria</i> <i>Luzula</i> honeydew <i>Pinaceae</i> <i>Potentilla/fragaria</i> <i>Prunus</i> <i>Quercus</i> r. <i>Ranunculaceae: Anemone</i> , <i>Ranunculus</i> f. <i>Rosa</i> f. <i>Salix</i> <i>Saxifraga</i> <i>Sedum/Sempervivum</i> <i>Stachys</i> f. <i>Thalictrum</i> <i>Thymus</i> <i>Trifolium pratense</i> gr. <i>Trifolium repens</i> gr.	<i>Astrantia</i> f. <i>Campanulaceae: Campanula</i> , <i>Phyteuma</i> <i>Castanea</i> <i>Compositae S:</i> <i>Carduus, Cirsium</i> f. <i>Epilobium</i> <i>Filipendula</i> <i>Graminaceae</i> <i>Helianthemum</i> <i>Juniperus</i> <i>Knautia/Scabiosa</i> <i>Liliaceae: Lilium, Allium</i> , <i>Maianthemum</i> f. <i>Lonicera</i> <i>Lotus alpinus</i> <i>Luzula</i> honeydew <i>Myosotis</i> <i>Plantago</i> <i>Polygonum bistorta</i> <i>Potentilla/fragaria</i> <i>Rhinanthus</i> f. <i>Rosa</i> f. <i>Rumex</i> <i>Salix</i> <i>Sambucus</i> <i>Sedum/Sempervivum</i> <i>Thalictrum</i> <i>Trifolium repens</i> gr. <i>Vicia</i>	<i>Achillea</i> <i>Buddleja</i> <i>Castanea</i> <i>Centaurea</i> <i>Compositae S: Carduus, Cirsium</i> f. <i>Compositae T: Taraxacum, Crepis</i> , <i>Hieracium</i> f. <i>Graminaceae</i> <i>Helianthemum</i> <i>Hippocrepis/Coronilla</i> <i>Juniperus</i> <i>Knautia/Scabiosa</i> <i>Liliaceae: Lilium, Allium</i> , <i>Maianthemum</i> f. <i>Luzula</i> honeydew <i>Plantago</i> <i>Polygonum bistorta</i> <i>Potentilla/fragaria</i> <i>Prunella</i> f. <i>Rumex</i> <i>Saxifraga</i> <i>Sedum/Sempervivum</i> <i>Thymus</i> <i>Trifolium pratense</i> gr.	<i>Acer</i> <i>Actinidia</i> <i>Aruncus</i> <i>Carex</i> <i>Castanea</i> <i>Corylaceae</i> <i>Fraxinus</i> <i>Graminaceae</i> <i>Helianthemum</i> <i>Juniperus</i> <i>Lotus alpinus</i> <i>Luzula</i> honeydew <i>Quercus</i> r. <i>Robinia</i> <i>Salix</i> <i>Saxifraga</i> <i>Sedum/Sempervivum</i> <i>Sorbus</i> f. <i>Thalictrum</i>	<i>Allium</i> f. <i>Alnus</i> <i>Anthyllis</i> f. <i>Castanea</i> <i>Clematis</i> <i>Graminaceae</i> <i>Helianthemum</i> <i>Juniperus</i> <i>Lonicera</i> honeydew <i>Papaver</i> <i>Pinaceae</i> <i>Plantago</i> <i>Robinia</i> <i>Salix</i> <i>Salvia</i> f. <i>Sambucus</i> <i>Sedum/Sempervivum</i> <i>Thalictrum</i> <i>Umbelliferae:</i> <i>Anthriscus</i> f.	<i>Acer</i> <i>Actinidia</i> <i>Aruncus</i> <i>Centaurea</i> <i>Crocus</i> <i>Fraxinus</i> <i>Graminaceae</i> <i>Helianthemum</i> <i>Juniperus</i> <i>Ligustrum</i> f. <i>Lonicera</i> <i>Luzula</i> honeydew <i>Papaver</i> <i>Parthenocissus</i> <i>Plantago</i> <i>Prunus</i> <i>Quercus</i> r. <i>Saxifraga</i> <i>Sedum/Sempervivum</i> <i>Thymus</i>

Table S3. Volatiles compounds detected in honeys (Rt, retention time).

COMPOUNDS	CAS NUMBER	Rt	CODE SAMPLES											
			A		B		C		D		E		F	
			mean	±SD	mean	±SD	mean	±SD	mean	±SD	mean	±SD	mean	±SD
<i>Alcohols</i>														
1-Octanol	111-87-5	2.53	0.037	0.014	0.000	0.000	0.000	0.000	0.110	0.035	0.012	0.002	0.000	0.000
Nonanol	111-84-2	3.23	0.000	0.000	0.001	0.000	0.000	0.000	0.086	0.013	0.033	0.013	0.147	0.066
2-Propanol	67-63-0	3.70	0.034	0.002	0.031	0.005	0.055	0.032	0.115	0.060	0.121	0.014	0.093	0.021
Ethanol	64-17-5	3.80	2.537	0.630	5.635	0.382	20.917	0.245	11.790	0.406	11.613	0.632	9.279	0.566
2-Methyl-3-buten-2-ol	115-18-4	7.35	0.569	0.084	0.214	0.005	1.090	0.120	2.888	2.308	1.260	0.137	0.476	0.089
Isobutanol	78-83-1	10.38	0.066	0.011	0.189	0.018	0.390	0.008	0.143	0.210	0.221	0.031	0.187	0.072
2-Butanol	78-92-2	10.46	0.001	0.000	0.047	0.006	0.000	0.000	0.271	0.227	0.001	0.000	0.040	0.035
3-Pentanol	584-02-1	11.08	0.016	0.004	0.000	0.000	0.001	0.000	0.080	0.044	0.001	0.000	0.083	0.029
1-Methoxy-2-Propanol	107-98-2	11.48	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.021	0.006	0.001	0.000
2-Pentanol	6032-29-7	11.69	0.011	0.003	0.000	0.000	0.013	0.002	0.139	0.024	0.001	0.000	0.054	0.004
1-Butanol	71-36-3	12.73	0.048	0.014	0.000	0.000	0.128	0.030	0.249	0.054	0.114	0.020	0.063	0.010
1-Penten-3-ol	616-25-1	13.47	0.028	0.012	0.052	0.016	0.006	0.002	0.062	0.026	0.016	0.004	0.053	0.022
2-Hexanol	626-93-7	13.84	0.007	0.002	0.027	0.005	0.025	0.002	0.029	0.007	0.022	0.004	0.018	0.005
Isoamyl alcohol	123-51-3	15.44	0.232	0.071	0.802	0.062	0.755	0.102	1.938	0.216	0.848	0.067	1.087	0.075
3-Methyl-3-buten-2-ol	763-32-6	16.79	0.378	0.101	0.127	0.031	0.853	0.125	0.205	0.058	2.181	0.143	2.838	0.040
1-Pentanol	71-41-0	16.95	0.001	0.000	0.001	0.000	0.001	0.000	0.004	0.000	0.000	0.000	0.001	0.000
E- 2-Methyl-3-penten-1-ol	62238-37-3	18.57	0.000	0.000	0.000	0.000	0.000	0.000	0.146	0.026	0.007	0.002	0.272	0.025
Prenol	4675-87-0	19.08	0.192	0.045	0.001	0.000	1.015	0.178	0.007	0.001	0.008	0.002	0.043	0.009
2-Heptanol	543-49-7	19.18	0.027	0.007	0.043	0.006	0.389	0.011	0.093	0.018	0.022	0.001	0.104	0.005
2-Butoxyethanol	111-76-2	21.23	0.100	0.012	0.045	0.024	0.001	0.000	0.000	0.000	0.022	0.007	0.000	0.000
2-Cyclopropyl-2-pentanol	24230-08-8	21.68	0.000	0.000	0.148	0.003	0.091	0.012	0.001	0.000	0.000	0.000	0.192	0.036
Hotrienol	20053-88-7	25.95	0.668	0.081	0.967	0.145	0.901	0.186	4.683	0.481	1.200	0.105	3.270	0.456
2-Phenylpropan-2-ol	617-94-7	28.77	0.001	0.000	0.032	0.003	0.006	0.008	0.000	0.000	0.001	0.000	0.001	0.000
1-Phenylethanol	98-85-1	29.86	0.001	0.000	0.001	0.000	0.001	0.000	0.000	0.000	0.001	0.000	6.591	0.580
Benzyl alcohol	100-51-6	31.02	1.798	0.569	0.076	0.005	3.352	0.902	3.826	1.057	0.000	0.000	4.854	1.463
2-Phenylethanol	60-12-8	31.69	1.017	0.963	0.443	0.060	1.596	0.448	0.995	0.129	2.684	0.265	2.324	0.278
<i>Aldehydes</i>														
Ethanal	75-07-0	1.73	0.130	0.087	0.163	0.010	0.479	0.013	0.298	0.034	0.403	0.020	0.387	0.053
Butanal	123-72-8	2.85	0.000	0.000	0.001	0.000	0.001	0.000	0.001	0.000	0.001	0.000	0.015	0.006
2-Methyl-butanal	96-17-3	3.33	0.027	0.003	0.040	0.003	0.021	0.008	0.069	0.014	0.083	0.014	0.576	0.010
3-Methylbutanal	590-86-3	3.42	0.028	0.008	0.070	0.002	0.087	0.017	0.263	0.029	0.127	0.018	1.092	0.074
Pentanal	110-62-3	4.77	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.001	0.001	0.000	0.001	0.000
Hexanal	66-25-1	8.99	0.060	0.017	0.122	0.029	0.082	0.016	0.082	0.058	0.287	0.033	0.402	0.043
2-Methyl- 2-butenal	1115-11-3	9.32	0.063	0.013	0.129	0.018	0.114	0.015	0.129	0.051	1.385	0.126	0.814	0.118
Heptanal	111-71-7	14.06	0.130	0.048	0.175	0.016	0.084	0.014	0.114	0.028	0.182	0.045	0.309	0.032
3-Methyl-2-butenal	107-86-8	14.44	0.233	0.065	0.260	0.131	0.317	0.046	0.243	0.066	1.172	0.201	0.656	0.094
Octanal	124-13-0	17.97	0.132	0.071	0.302	0.085	0.115	0.021	0.136	0.007	0.318	0.078	0.317	0.037
1-Formylcyclopentene	ID#: 4768	18.28	0.000	0.000	0.057	0.008	0.000	0.000	0.014	0.005	0.094	0.009	0.020	0.006
Nonanal	124-19-6	20.98	2.349	0.521	8.616	1.051	3.878	0.522	7.947	1.798	11.034	1.371	16.436	3.173

Furfural	98-01-1	22.59	1.071	0.302	3.018	0.400	1.528	0.242	6.304	1.751	4.955	0.233	10.830	2.116
Decanal	112-31-2	23.53	0.335	0.096	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Benzaldehyde	100-52-7	23.95	1.754	0.393	9.390	0.943	2.019	0.223	11.003	2.821	8.527	0.314	29.157	6.360
Lilac Aldehyde	67920-63-2	24.39	1.842	0.401	4.311	0.138	1.522	0.625	5.931	0.843	3.436	0.135	6.957	0.719
Lilac Aldehyde isomer		24.66	1.392	0.259	4.393	0.160	1.654	0.121	0.000	0.000	0.001	0.000	4.975	0.382
Undecanal	112-44-7	25.82	0.009	0.001	0.057	0.015	0.004	0.001	0.103	0.029	0.094	0.022	0.467	0.062
Myrtenal	564-94-3	26.10	0.006	0.001	0.001	0.000	0.001	0.000	0.001	0.000	0.030	0.004	0.000	0.000
2-Phenyl ethanal	122-78-1	26.38	1.289	0.254	1.734	0.125	0.830	0.175	1.679	0.287	4.514	0.383	10.369	1.375
Cumaldehyde	122-03-2	26.64	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.004
Salicylaldehyde	90-02-8	27.07	0.010	0.001	0.234	0.051	0.028	0.006	0.167	0.023	0.204	0.027	0.545	0.097
Nicotinaldehyde	500-22-1	27.59	0.000	0.000	6.651	1.061	0.157	0.022	2.597	0.384	7.876	1.310	3.014	0.648
2-(4'-Methylphenyl)-propanal	ID#: 32380	28.29	0.000	0.000	0.001	0.000	0.001	0.000	0.001	0.000	0.000	0.000	2.134	0.516
3-Phenylpropionaldehyde	104-53-0	29.09	0.000	0.000	0.020	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.392	0.038
2-Caren-10-al	ID WILEY 387175	29.39	0.000	0.000	0.000	0.000	0.036	0.009	0.001	0.000	0.001	0.000	0.082	0.035
2-Phenyl-2-butenal	4411-89-6	31.21	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.014	0.006	0.386	0.084
Anisaldehyde	123-11-5	32.67	0.001	0.000	0.033	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Cinnamaldehyde	104-55-2	32.81	0.036	0.005	0.065	0.014	0.136	0.032	0.081	0.031	0.464	0.088	0.903	0.255
Lilial aldehyde	80-54-6	32.93	0.006	0.001	0.001	0.000	0.000	0.000	0.016	0.002	0.001	0.000	0.001	0.000
5-hydroxymethylfurfural	67-47-0	39.36	0.001	0.000	0.001	0.000	0.001	0.000	0.001	0.000	0.032	0.014	0.001	0.000
Vanillin	121-33-5	40.46	0.000	0.000	0.001	0.000	0.000	0.000	0.115	0.043	0.009	0.004	0.019	0.008
<i>Anidrides</i>														
Glutaconic anhydride	5926-95-4	32.33	0.000	0.001	0.035	0.012	0.025	0.012	0.291	0.056	0.074	0.029	0.000	0.000
<i>Aromatics</i>														
Ethyl-benzene	100-41-4	10.87	0.006	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.012	0.005	0.011	0.000
p-Xylene	106-42-3	11.55	0.001	0.000	0.000	0.000	0.001	0.000	0.063	0.014	0.028	0.006	0.024	0.000
Pyridin	110-86-1	13.79	0.000	0.000	0.001	0.002	0.000	0.000	0.001	0.000	0.006	0.000	0.012	0.003
2-pentyl-furan	3777-69-3	16.14	0.001	0.000	0.015	0.005	0.011	0.004	0.025	0.008	0.001	0.000	0.045	0.005
1,2-Dihydro-1,1,6-trimethyl-naphthalene	30364-38-6	28.51	0.001	0.000	0.001	0.000	0.001	0.000	0.336	0.032	0.001	0.000	0.001	0.000
Imidazole	288-32-4	29.44	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.082	0.013
α-Naphthol	90-15-3		0.006	0.001	0.000	0.000	0.006	0.001	0.000	0.000	0.000	0.000	0.109	0.062
β-Naphthol	135-19-3	30.47	0.001	0.000	0.000	0.000	0.003	0.001	0.000	0.000	0.001	0.000	0.244	0.048
4-Methoxyphenol	150-76-5	30.55	0.001	0.000	0.001	0.000	0.001	0.000	0.001	0.000	0.015	0.004	0.090	0.016
1,4-Dimethoxybenzene	150-78-7	31.96	0.128	0.110	0.048	0.007	0.096	0.027	0.044	0.002	0.000	0.000	0.000	0.000
Phenol	108-95-2	32.50	0.041	0.008	0.080	0.020	0.127	0.045	1.754	0.078	0.158	0.037	1.294	0.342
m-Cresol	108-39-4	33.23	0.270	0.086	0.010	0.003	0.022	0.004	0.355	0.080	0.028	0.005	0.194	0.032
p-Cresol	106-44-5	33.30	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.007	0.002	0.094	0.028
2,6-Di-t-butyl-4-methylphenol	128-37-0	33.48	0.029	0.003	0.026	0.006	0.039	0.012	0.075	0.006	0.030	0.017	0.191	0.027
4-Ethyl phenol	123-07-9	34.18	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.000	0.000
Thymol	89-83-8	34.32	0.041	0.009	0.044	0.006	0.113	0.018	2.738	0.117	0.409	0.087	2.118	0.417
2-Acetyl-4-Methylphenol	1450-72-2	34.43	0.213	0.067	0.341	0.039	0.400	0.140	0.000	0.000	0.000	0.000	0.000	0.000
2-Methoxy-4-vinylphenol	7786-61-0	34.40	0.000	0.000	0.000	0.000	0.000	0.000	3.695	0.136	0.376	0.087	2.745	0.488
Carvacrol	499-75-2	34.64	0.071	0.025	0.093	0.016	0.235	0.059	0.294	0.021	0.205	0.030	0.091	0.011
2,4-Di-tert-butylphenol	96-76-4	35.98	0.014	0.001	0.019	0.006	0.040	0.016	0.053	0.002	0.044	0.002	0.091	0.020
3,4,5-Trimethylphenol	527-54-8	36.73	0.000	0.000	0.000	0.000	0.001	0.000	0.053	0.013	0.001	0.000	0.011	0.017
2-ethyl-5-propyl-phenol	72386-20-0	38.50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.055	0.019
<i>Carboxylic acids</i>														
2,2-Dimethyl-propanoic acid	15784-26-6	5.09	0.026	0.008	0.063	0.015	0.027	0.009	0.039	0.004	0.080	0.031	0.001	0.000
Acetic acid	64-19-7	22.18	11.542	3.977	17.676	3.746	32.282	5.106	41.401	0.843	25.426	0.811	81.891	4.069

Formic acid	64-18-6	23.46	0.000	0.000	1.229	0.413	0.081	0.027	5.083	0.375	1.426	0.307	20.018	3.744
Propanoic acid	79-09-4	24.25	1.527	0.316	2.223	0.448	2.376	0.296	3.640	0.466	3.417	0.360	4.329	0.210
2-Methylpropanoic acid	79-31-2	24.94	0.184	0.108	0.581	0.132	1.160	0.038	3.262	0.219	1.199	0.034	6.350	0.552
Pivalic acid	75-98-9	25.18	3.168	0.976	5.076	0.971	4.794	0.414	3.751	0.348	6.739	0.485	4.682	0.463
Butanoic acid	107-92-6	26.17	1.128	0.281	1.922	0.374	5.009	0.504	21.285	1.371	3.034	0.013	8.474	0.785
Propenoic acid	79-10-7	26.31	0.001	0.000	0.001	0.000	0.001	0.000	0.072	0.014	0.025	0.005	0.456	0.093
3-Methyl-butanoic acid	503-74-2	27.03	0.554	0.378	2.380	0.328	3.722	0.789	6.664	0.127	2.386	0.381	14.230	1.408
2-Methyl-butanoic acid	116-53-0	27.04	0.532	0.363	1.382	0.210	1.948	0.413	3.912	0.137	1.685	0.240	12.448	1.320
Pentanoic acid	109-52-4	28.33	0.329	0.139	0.532	0.140	0.833	0.028	1.382	0.320	1.176	0.132	2.075	0.328
2-Methyl-pentanoic acid	97-61-0	28.92	0.006	0.003	0.043	0.003	0.019	0.005	0.016	0.005	0.030	0.002	0.212	0.032
Crotonic acid	3724-65-0	28.94	0.003	0.001	0.029	0.003	0.015	0.004	0.033	0.002	0.021	0.003	0.117	0.014
2-Methyl-2-butenoic acid	13201-46-2	29.25	0.018	0.001	0.005	0.001	0.032	0.008	0.008	0.012	0.000	0.000	0.096	0.014
3-Methyl-pentanoic acid	105-43-1	29.42	0.029	0.018	0.039	0.007	0.306	0.135	0.365	0.043	0.338	0.087	0.431	0.060
3-Methyl-2-butenoic acid	541-47-9	29.36	0.034	0.018	0.060	0.006	0.112	0.049	0.439	0.048	0.330	0.024	0.812	0.150
4-Methyl-pentanoic acid	646-07-1	29.54	0.000	0.000	0.000	0.000	0.040	0.024	0.080	0.014	0.056	0.013	0.154	0.021
Hexanoic acid	142-62-1	30.33	0.261	0.122	1.026	0.320	1.547	0.823	18.796	2.034	1.675	0.333	7.978	1.125
2-Methyl-(E)-2-pentenoic acid	16957-70-3	30.82	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.070	0.025
Heptanoic acid	111-14-8	31.96	0.115	0.138	0.116	0.016	0.163	0.046	1.454	0.086	0.272	0.039	2.772	0.434
3-Hexenoic acid	1577-18-0	31.99	0.000	0.000	0.004	0.001	0.010	0.003	0.756	0.100	0.009	0.002	0.494	0.074
2-Hexenoic acid	13419-69-7	32.02	0.227	0.219	0.139	0.019	0.000	0.000	0.033	0.007	0.000	0.000	0.083	0.014
Octanoic acid	124-07-2	33.05	0.006	0.000	0.023	0.014	0.027	0.030	7.906	2.545	0.045	0.007	3.912	0.524
7-Octenoic acid	18719-24-9	33.62	0.000	0.000	0.000	0.000	0.000	0.000	0.062	0.017	0.001	0.000	0.238	0.035
Hexa-2,4-Dienoic acid	110-44-1	33.77	0.000	0.000	0.000	0.000	0.000	0.000	0.303	0.046	0.000	0.000	0.000	0.000
Hexa-2,4-Dienoic acid isomer		33.82	0.000	0.000	0.000	0.000	0.000	0.000	13.234	1.586	0.536	0.216	0.001	0.000
Nonanoic acid	112-05-0	34.11	0.001	0.000	0.000	0.000	0.059	0.041	1.998	0.984	0.107	0.028	6.413	1.356
n-Decanoic acid	334-48-5	35.34	0.000	0.000	0.000	0.000	0.000	0.000	0.997	0.868	0.011	0.005	0.155	0.085
2-Nonenoic acid	3760-11-0	35.57	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.003	0.198	0.086
Nerolic acid	4613-38-1	36.30	0.000	0.000	0.000	0.000	0.000	0.000	0.054	0.010	0.000	0.000	0.449	0.101
Benzoic acid	65-85-0	38.26	0.029	0.010	0.218	0.038	0.088	0.028	10.260	0.676	0.183	0.076	10.993	1.652
Dodecanoic acid	143-07-7	39.11	0.000	0.000	0.000	0.000	0.000	0.000	0.108	0.103	0.000	0.000	0.000	0.000
Phenylacetic acid	103-82-2	40.85	0.000	0.000	0.000	0.000	0.000	0.000	0.032	0.005	0.001	0.000	0.177	0.060
<i>Esters</i>														
Methyl acetate	79-20-9	2.37	0.000	0.000	0.000	0.000	0.000	0.000	0.070	0.015	0.077	0.021	0.107	0.051
Ethyl acetate	141-78-6	3.01	0.238	0.024	0.296	0.015	0.363	0.047	0.355	0.026	0.315	0.034	0.494	0.072
Methyl hexanoate	106-70-7	14.34	0.003	0.001	0.000	0.000	0.000	0.000	0.144	0.021	0.012	0.014	0.038	0.001
Ethyl hexanoate	123-66-0	16.29	0.000	0.000	0.000	0.000	0.001	0.000	0.049	0.006	0.000	0.000	0.001	0.000
Ethyl lactate	97-64-3	19.64	0.022	0.012	0.019	0.003	0.604	0.067	0.107	0.016	0.003	0.000	0.048	0.007
4,6-Dimethyltetrahydro-2H-pyran-2-one	3720-20-5	21.92	0.024	0.010	0.036	0.012	0.041	0.008	0.052	0.015	0.022	0.003	0.052	0.009
Methyl nonanoate	1731-84-6	23.44	0.015	0.007	0.048	0.011	0.007	0.001	0.128	0.036	0.042	0.007	0.046	0.080
$\gamma$ -Valerolactone	108-29-2	25.60	0.085	0.030	0.147	0.007	0.342	0.040	0.882	0.202	0.222	0.016	1.013	0.210
Methyl benzoate	93-58-3	26.06	0.001	0.000	0.001	0.000	0.000	0.000	0.014	0.004	0.001	0.000	0.083	0.024
Ethyl decanoate	110-38-3	26.59	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.171	0.000	0.000	0.000	0.000
$\gamma$ -Vinyl- $\gamma$ -valerolactone	1073-11-6	26.85	0.374	0.091	0.603	0.022	0.400	0.075	1.873	0.107	0.183	0.018	2.411	0.316
Ethyl benzoate	93-89-0	26.98	0.000	0.001	0.049	0.012	0.079	0.017	0.001	0.000	0.001	0.000	0.001	0.000
$\gamma$ -Caprolactone	695-06-7	27.47	0.039	0.065	0.250	0.024	0.372	0.066	0.796	0.054	0.196	0.171	1.097	0.185
$\gamma$ -Crotonlactone	497-23-4	28.45	0.001	0.000	0.001	0.000	0.023	0.001	0.023	0.006	0.033	0.008	0.056	0.008
Methyl salicylate	119-36-8	29.01	0.071	0.022	0.020	0.003	0.047	0.011	0.624	0.284	0.056	0.048	0.052	0.005
Laurate	111-82-0	29.73	0.001	0.000	0.001	0.000	0.000	0.000	0.452	0.229	0.003	0.001	0.001	0.000



Phenethyl acetate	103-45-7	29.83	0.001	0.000	0.000	0.000	0.029	0.006	0.020	0.006	0.001	0.000	0.000	0.000
Pantolactone	52126-90-6	32.71	0.001	0.000	0.001	0.000	0.042	0.016	1.189	0.244	0.191	0.129	0.414	0.158
1-(4-Isopropylphenyl)-2-methylpropyl acetate	ID#: 311526	33.09	0.070	0.004	0.069	0.008	0.166	0.020	0.001	0.000	0.034	0.005	0.001	0.000
Dihydropentalactone	21950-33-4	33.54	0.019	0.005	0.021	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Methyl citronellate	2270-60-2	35.04	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.174	0.043
Diethyl phthalate	84-66-2	36.81	0.021	0.003	0.022	0.001	0.001	0.000	0.032	0.009	0.029	0.022	0.127	0.006
Sparassol	520-43-4	37.01	0.018	0.010	0.010	0.002	0.013	0.004	0.023	0.004	0.012	0.005	0.011	0.001
Butyl hexadecanoate	111-06-8	38.18	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.316	0.311
Diisobutyl phthalate	84-69-5	40.41	0.009	0.001	0.001	0.000	0.001	0.000	0.022	0.010	0.014	0.007	0.081	0.027
Benzyl benzoate	120-51-4	42.59	0.000	0.000	0.001	0.000	0.000	0.000	0.032	0.010	0.000	0.000	0.031	0.009
Stearate	123-95-5	43.93	0.000	0.000	0.000	0.000	0.000	0.000	0.055	0.003	0.022	0.002	0.242	0.164
<i>Ethers</i>														
Diethyl ether	60-29-7	2.40	0.000	0.000	0.000	0.000	0.027	0.002	0.000	0.000	0.000	0.000	0.000	0.000
Dill ether	70786-44-6	23.71	0.114	0.030	0.136	0.016	0.135	0.017	0.624	0.111	0.074	0.015	0.409	0.074
<i>Furanoids</i>														
2-Methylfuran	534-22-5	2.81	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.364	0.032
3-Methylfuran	930-27-8	3.12	0.184	0.057	0.145	0.008	0.285	0.009	0.426	0.022	0.256	0.021	1.474	0.043
2-Ethylfuran	3208-16-0	4.21	0.001	0.000	0.001	0.000	0.001	0.000	0.001	0.000	0.001	0.000	0.166	0.030
z-Rose-oxide	16409-43-1	19.82	0.011	0.005	0.027	0.008	0.003	0.001	0.112	0.026	0.072	0.009	0.306	0.032
Menthofuran	494-90-6	23.07	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.652	0.418
4,7-Dimethyl-benzofuran	28715-26-6	27.68	0.001	0.000	0.195	0.067	0.000	0.000	0.001	0.000	0.000	0.000	0.747	0.155
4,5-Dimethyl-2-formylfuran	52480-43-0	32.16	0.056	0.013	3.534	1.189	0.340	0.104	3.059	0.390	6.247	1.765	0.838	0.227
2,3-Dihydro-benzofuran	496-16-2	37.09	0.001	0.000	0.029	0.002	0.028	0.014	0.506	0.059	0.015	0.005	0.709	0.113
<i>Hydrocarbons</i>														
n-Octane	111-65-9	2.19	0.122	0.037	0.254	0.055	0.064	0.011	0.668	0.161	0.210	0.033	2.146	0.229
1-Octene	111-66-0	2.52	0.001	0.000	0.064	0.006	0.039	0.005	0.184	0.007	0.051	0.004	0.366	0.078
2,2,3-Trimethyl-hexane	16747-25-4	7.70	0.051	0.008	0.088	0.024	0.816	0.155	0.742	0.804	2.304	0.278	1.853	0.387
2,3,4-Trimethyl-decane	62238-15-7	8.18	0.000	0.000	0.043	0.012	0.068	0.003	1.320	1.067	0.084	0.015	0.236	0.011
2,8-dimethyl-undecane	17301-25-6	8.21	0.031	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
n-Undecane	1120-21-4	10.03	0.001	0.000	0.016	0.007	0.011	0.001	0.057	0.033	0.021	0.001	0.040	0.003
1,3-Cyclopentadiene	542-92-7	14.65	0.256	0.072	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.175	0.028
E- 2-Methyl-3-penten-1-ol	629-50-5	18.67	0.012	0.004	0.019	0.006	0.015	0.001	0.038	0.012	0.016	0.006	0.054	0.013
Tetradecane	629-59-4	21.42	0.000	0.000	0.000	0.000	0.076	0.010	0.068	0.029	0.022	0.011	0.098	0.030
1,4-Dimethyl-4-acetyl-1-cyclohexene	43219-68-7	23.85	0.604	0.135	0.605	0.060	1.028	0.114	0.713	0.020	0.353	0.033	0.166	0.012
Dodecane	112-40-3	15.15	0.041	0.017	0.125	0.025	0.001	0.000	0.343	0.042	0.055	0.012	0.185	0.039
<i>Ketones</i>														
Acetone	67-64-1	2.27	0.463	0.012	0.508	0.880	2.204	0.103	1.935	0.130	3.097	0.142	0.000	0.000
3-Methyl-2-butanone	563-80-4	3.61	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.036	0.012
2-Pentanone	107-87-9	4.68	0.000	0.000	0.000	0.000	0.000	0.000	0.023	0.006	0.001	0.000	0.048	0.031
Diacetyl	431-03-8	4.86	0.119	0.026	0.248	0.025	0.387	0.047	0.862	0.043	0.484	0.016	14.201	0.426
E-3-Penten-2-one	3102-33-8	11.09	0.001	0.000	0.000	0.000	0.000	0.000	0.007	0.011	0.057	0.027	0.139	0.012
4-Methyl-3-penten-2-one	141-79-7	11.39	0.001	0.000	0.000	0.000	0.001	0.000	0.014	0.001	0.014	0.007	0.067	0.004
2-Heptanone	110-43-0	13.93	0.024	0.009	0.011	0.003	0.008	0.001	0.063	0.008	0.027	0.004	0.072	0.001
6-Methyl-2-heptanone	928-68-7	16.24	0.050	0.025	0.064	0.007	0.013	0.000	0.002	0.001	0.021	0.004	0.048	0.011
2-Methyltetrahydro-3-furanone	3188-00-9	17.02	0.001	0.000	0.001	0.000	0.001	0.000	0.024	0.007	0.001	0.000	0.061	0.011
3-Hydroxy-2-butanone	513-86-0	17.64	0.154	0.069	0.227	0.023	0.395	0.030	0.599	0.063	0.209	0.123	2.462	0.093
2-Octanone	111-13-7	17.82	0.010	0.005	0.007	0.002	0.000	0.000	0.024	0.005	0.011	0.003	0.054	0.012

1-Hydroxyacetone	116-09-6	18.07	0.097	0.054	0.234	0.055	0.304	0.040	0.910	0.118	0.709	0.196	2.389	0.236
2,6-Dimethyl-4-hepten-3-one	56259-14-4	18.90	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.005	0.001	0.027	0.003
6-Methyl-5-hepten-2-one	110-93-0	19.42	0.010	0.002	0.012	0.003	0.008	0.001	0.024	0.004	0.011	0.001	0.038	0.005
4-Hydroxy-4-methyl-2-pentanone	123-42-2	19.95	0.000	0.000	0.006	0.002	0.010	0.004	0.004	0.001	0.004	0.000	0.001	0.000
Tetrahydro-3,5-dimethyl-2h-pyran-2-one	3290-57-1	20.27	0.065	0.023	0.008	0.001	0.094	0.019	0.014	0.001	0.008	0.004	0.008	0.001
2-Nonanone	821-55-6	20.84	0.048	0.014	0.000	0.000	0.000	0.000	0.262	0.048	0.006	0.000	0.088	0.039
3,5,5-Trimethyl-3-Cyclohexen-1-one	471-01-2	21.19	0.000	0.000	0.018	0.011	0.001	0.000	0.129	0.011	0.032	0.004	0.058	0.007
2-Cyclohexen-1-one	930-68-7	21.67	0.000	0.000	0.062	0.007	0.073	0.010	0.001	0.000	0.000	0.000	0.457	0.074
3-Methyl-3-cyclohexen-1-one	31883-98-4	21.63	0.001	0.000	0.020	0.001	0.242	0.033	0.165	0.007	0.143	0.008	0.063	0.012
2-Acetylfuran	1192-62-7	23.50	0.031	0.009	0.316	0.055	0.655	0.141	0.933	0.071	0.000	0.000	2.440	0.677
3-Methyl-2-cyclopenten-1-one	2758-18-1	23.59	0.159	0.046	0.077	0.018	0.152	0.048	0.001	0.000	0.404	0.044	0.000	0.000
$\alpha$ -Isophorone	78-59-1	25.29	0.001	0.000	0.001	0.000	0.001	0.000	2.643	0.246	0.001	0.000	0.913	0.194
Acetophenone	98-86-2	26.55	0.001	0.000	0.001	0.000	0.001	0.000	0.001	0.000	0.001	0.000	1.829	0.130
3,4-Dimethylacetophenone	3637 01 2	27.18	0.001	0.000	0.001	0.000	0.023	0.005	0.000	0.000	0.001	0.000	0.446	0.080
4-Oxoisophorone	1125-21-9	27.38	0.157	0.229	0.982	0.123	0.815	0.145	2.104	0.144	0.413	0.359	2.620	0.313
Verbenone	80-57-9	27.60	0.931	0.677	0.093	0.004	0.057	0.008	0.022	0.002	0.009	0.001	0.057	0.010
3,4-Dimethyl-2,5-Furandione	766-39-2	27.98	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.456	0.065
3,3,5-Trimethyl-Cyclohexanone	873-94-9	28.56	0.001	0.000	0.074	0.003	0.079	0.008	0.001	0.000	0.001	0.000	0.079	0.007
cyclopentane-1,2-dione	3008-40-0	28.81	0.000	0.000	0.001	0.000	0.001	0.000	0.013	0.006	0.027	0.010	0.084	0.024
3-Methylacetophenone	585-74-0	28.96	0.014	0.001	0.058	0.006	0.028	0.008	0.250	0.206	0.026	0.001	0.643	0.036
2,2,6-Trimethyl-1,4-cyclohexanedione	20547-99-3	29.00	0.005	0.002	0.012	0.003	0.033	0.008	0.396	0.060	0.026	0.022	0.133	0.032
Tetrahydro-6-methyl-2h-pyran-2-one	823-22-3	29.17	0.001	0.000	0.038	0.006	0.117	0.028	0.016	0.001	0.001	0.000	0.646	0.096
$\beta$ -Damascenone	23696-85-7	29.93	0.106	0.026	0.558	0.083	0.108	0.018	2.487	0.238	0.482	0.095	0.644	0.118
(+)-Isopiperitenone	16750-82-6	30.13	0.047	0.010	0.036	0.004	0.019	0.005	0.037	0.014	0.019	0.002	0.060	0.008
5-Methyl-5H-furan-2-one	591-11-7	30.93	0.000	0.000	0.000	0.000	0.040	0.012	0.093	0.024	0.065	0.023	0.001	0.000
2-Hydroxy-3,5,5-trimethyl-2-cyclohexen-1,4-dione	35692-98-9	32.76	0.001	0.000	0.001	0.000	0.019	0.009	0.032	0.002	0.010	0.003	0.000	0.000
1-Carvone	99-49-0	34.62	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.441	0.192
Hydroxydihydromaltol	28564-83-2	35.25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.307	0.095
8-Hydroxycarvotanacetone	7712-46-1	36.15	0.001	0.000	0.000	0.000	0.038	0.016	0.092	0.012	0.052	0.034	0.127	0.056
4'-Isopropylacetophenone	645-13-6	38.66	0.000	0.000	0.000	0.000	0.001	0.000	0.247	0.051	0.024	0.007	0.158	0.126
<i>Nitrogenates</i>														
N-Methylpropylamine	627-35-0	4.35	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.038	0.006	0.000	0.000
2,5-Dimethyl-pyrazine	123-32-0	18.79	0.000	0.000	0.002	0.004	0.000	0.000	0.564	0.057	0.024	0.003	0.037	0.008
2-Methyl-propanamide	563-83-7	29.39	0.000	0.000	0.007	0.003	0.000	0.000	0.366	0.095	0.001	0.000	0.021	0.006
Butyramide	541-35-5	31.06	0.000	0.000	0.000	0.000	0.000	0.000	0.051	0.010	0.000	0.000	0.001	0.000
Isovaleramide	541-46-8	31.39	0.000	0.000	0.000	0.000	0.001	0.000	0.561	0.078	0.038	0.007	0.000	0.000
Phenylacetone nitrile	140-29-4	31.58	0.030	0.017	0.122	0.017	0.114	0.032	0.049	0.001	0.051	0.011	3.112	0.345
2-Pyrrolidone	616-45-5	32.71	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.086	0.047
2'-Aminoacetophenone	551-93-9	34.65	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.000	0.146	0.023	2.567	0.342
n-(2-Acetylphenyl)formamide	5257 06 7	40.58	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.750	0.217
<i>Sulfurated</i>														
Dimethyl sulfide	75-18-3	1.90	0.708	0.062	0.484	0.029	0.674	0.091	1.823	0.091	0.793	0.152	3.607	0.173
Dimethyl sulfoxide	67-68-5	24.57	0.008	0.006	0.021	0.000	0.019	0.005	0.001	0.000	0.001	0.000	0.061	0.033
Dimethylsulfone	67-71-0	31.09	0.050	0.005	0.024	0.001	0.049	0.013	0.304	0.064	0.065	0.023	0.237	0.040
<i>Terpenes</i>														
$\beta$ -Pinene	127-91-3	9.61	0.000	0.000	0.000	0.000	0.040	0.001	0.079	0.023	0.068	0.013	0.084	0.027
Sabinene	3387-41-5	10.49	0.001	0.000	0.000	0.000	0.080	0.013	0.207	0.004	0.189	0.015	0.183	0.024

$\alpha$ -Phellandrene	99-83-2	12.77	0.001	0.000	0.001	0.000	0.001	0.000	0.001	0.000	0.001	0.000	0.033	0.008
$\beta$ -Myrcene	123-35-3	13.24	0.008	0.002	0.003	0.005	0.001	0.000	0.039	0.008	0.040	0.013	0.040	0.004
$\alpha$ -Terpinene	99-86-5	13.49	0.031	0.013	0.009	0.006	0.016	0.003	0.061	0.014	0.028	0.007	0.260	0.023
Limonene	138-86-3	14.37	0.190	0.053	0.333	0.122	0.051	0.009	0.232	0.004	0.193	0.214	0.135	0.027
1, 8-Cineol	470-82-6	14.72	0.172	0.063	0.105	0.024	0.045	0.007	0.161	0.019	0.081	0.006	0.203	0.027
Herboxide	13679-86-2	15.18	0.057	0.023	0.000	0.000	0.128	0.016	0.000	0.000	0.064	0.009	0.000	0.000
<i>trans</i> -3(10)-carene-2-ol	6909-15-5	15.35	0.046	0.014	0.002	0.003	0.049	0.009	0.493	0.045	0.152	0.016	5.417	0.118
$\gamma$ -Terpinene	99-85-4	16.37	0.026	0.012	0.005	0.003	0.077	0.011	0.284	0.037	0.087	0.009	0.687	0.081
Herboxide isomer		16.42	0.171	0.077	0.086	0.003	0.163	0.023	0.474	0.069	0.091	0.009	0.000	0.000
E- $\beta$ -Ocimene	3779-61-1	16.85	0.001	0.000	0.001	0.000	0.001	0.000	0.034	0.005	0.001	0.000	0.001	0.000
m-Cymene	535-77-3	17.22	0.190	0.095	0.181	0.016	0.186	0.028	0.423	0.037	0.166	0.028	0.799	0.100
Terpinolene	586-62-9	17.67	0.001	0.000	0.001	0.000	0.137	0.016	0.478	0.033	0.186	0.109	0.087	0.007
p-Mentha-1,3,8-triene	21195-59-5	20.86	0.001	0.001	0.001	0.000	0.056	0.028	0.000	0.000	0.028	0.009	0.067	0.018
Cymene	1195-32-0	21.97	0.053	0.025	0.069	0.008	0.183	0.034	0.273	0.019	0.162	0.030	11.533	0.797
Carvyl acetate	97-42-7	22.04	0.132	0.046	0.153	0.014	0.281	0.042	0.175	0.010	0.076	0.034	0.127	0.020
<i>cis</i> -Linalool oxide	5989-33-3	22.22	1.398	0.286	1.330	0.162	1.372	0.131	4.031	0.124	0.000	0.000	1.731	0.161
<i>trans</i> -Linalool oxide	34995-77-2	22.85	1.221	0.394	1.467	0.141	1.770	0.222	3.589	0.028	1.072	0.042	1.769	0.127
Dihydromyrcenol	53219-21-9	22.96	0.008	0.000	0.000	0.000	0.019	0.005	0.077	0.025	0.014	0.001	0.001	0.000
Linalool	78-70-6	24.68	2.180	0.405	4.134	0.302	1.061	0.078	19.977	1.606	4.835	0.351	11.140	0.707
(-)- <i>trans</i> -Pinocarvone	19890-00-7	24.85	4.689	0.662	4.161	0.291	1.505	0.231	4.274	0.354	2.526	0.211	2.339	0.290
4-Terpineol	562-74-3	25.71	1.045	0.192	0.887	0.099	0.335	0.046	2.280	0.417	0.348	0.037	2.785	0.283
1,8-Menthadien-4-ol	3419-02-1	27.44	0.719	0.021	1.127	0.117	1.652	0.293	1.161	0.092	0.501	0.436	0.451	0.110
$\alpha$ -Terpineol	10482-56-1	27.62	0.371	0.353	0.764	0.059	0.653	0.093	3.802	0.324	1.057	0.061	2.221	0.239
Valencene	4630 03 7	28.02	0.000	0.000	0.000	0.000	0.000	0.000	0.523	0.199	0.039	0.006	0.000	0.000
p-Mentha-1,5-dien-8-ol	1686-20-0	28.17	0.214	0.026	0.155	0.031	0.238	0.087	0.723	0.062	0.226	0.039	0.235	0.046
(+)- $\delta$ -Cadinene	483-76-1	28.86	0.043	0.005	0.052	0.002	0.022	0.012	0.197	0.056	0.020	0.008	0.048	0.005
p-Mentha-1,5-dien-8-ol isomer	1686-20-0	29.20	0.186	0.031	0.213	0.038	0.604	0.146	0.083	0.023	0.021	0.008	0.465	0.115
<i>trans</i> -3-carene-2-ol	6909-16-6	29.68	0.103	0.017	0.141	0.031	0.174	0.026	0.104	0.020	0.086	0.012	0.202	0.033
Calamenene	483-77-2		0.001	0.000	0.000	0.000	0.001	0.000	0.032	0.018	0.001	0.000	0.026	0.002
p-Cymen-7-ol	536-60-7	30.42	0.136	0.032	0.206	0.030	1.861	0.446	0.868	0.034	1.295	0.180	3.665	0.582
$\alpha$ -Calacorene	21391-99-1	31.56	0.071	0.058	0.050	0.007	0.039	0.011	0.085	0.012	0.030	0.008	0.035	0.006
Eugenol	97-53-0	34.12	0.000	0.000	0.053	0.006	0.000	0.000	0.210	0.049	0.028	0.011	0.001	0.000
10-epi- $\gamma$ -eudesmol	1209-71-8	34.20	0.000	0.000	0.001	0.000	0.104	0.035	0.001	0.000	0.070	0.024	0.000	0.000
Guaiazulene	489-84-9	34.82	0.001	0.000	0.028	0.004	0.074	0.025	0.001	0.000	0.060	0.014	0.001	0.000
(+)- $\beta$ -Eudesmol	473-15-4	34.92	0.000	0.000	0.000	0.000	0.064	0.030	0.001	0.000	0.111	0.056	0.001	0.000
<i>cis</i> -Isoeugenol	5932-68-3	36.42	0.000	0.000	0.000	0.000	0.000	0.000	0.053	0.008	0.001	0.000	0.001	0.000
<i>Other</i>														
1-Chloro-octane	111-85-3	16.65	0.033	0.017	0.020	0.002	0.013	0.003	0.022	0.005	0.021	0.012	0.000	0.000
Cyclooctene oxide	286-62-4	21.78	0.001	0.000	0.053	0.006	0.053	0.007	0.001	0.000	0.001	0.000	0.323	0.031

Table S4. Results regarding metabolomic identification of phenolic compounds (Rt, retention time).

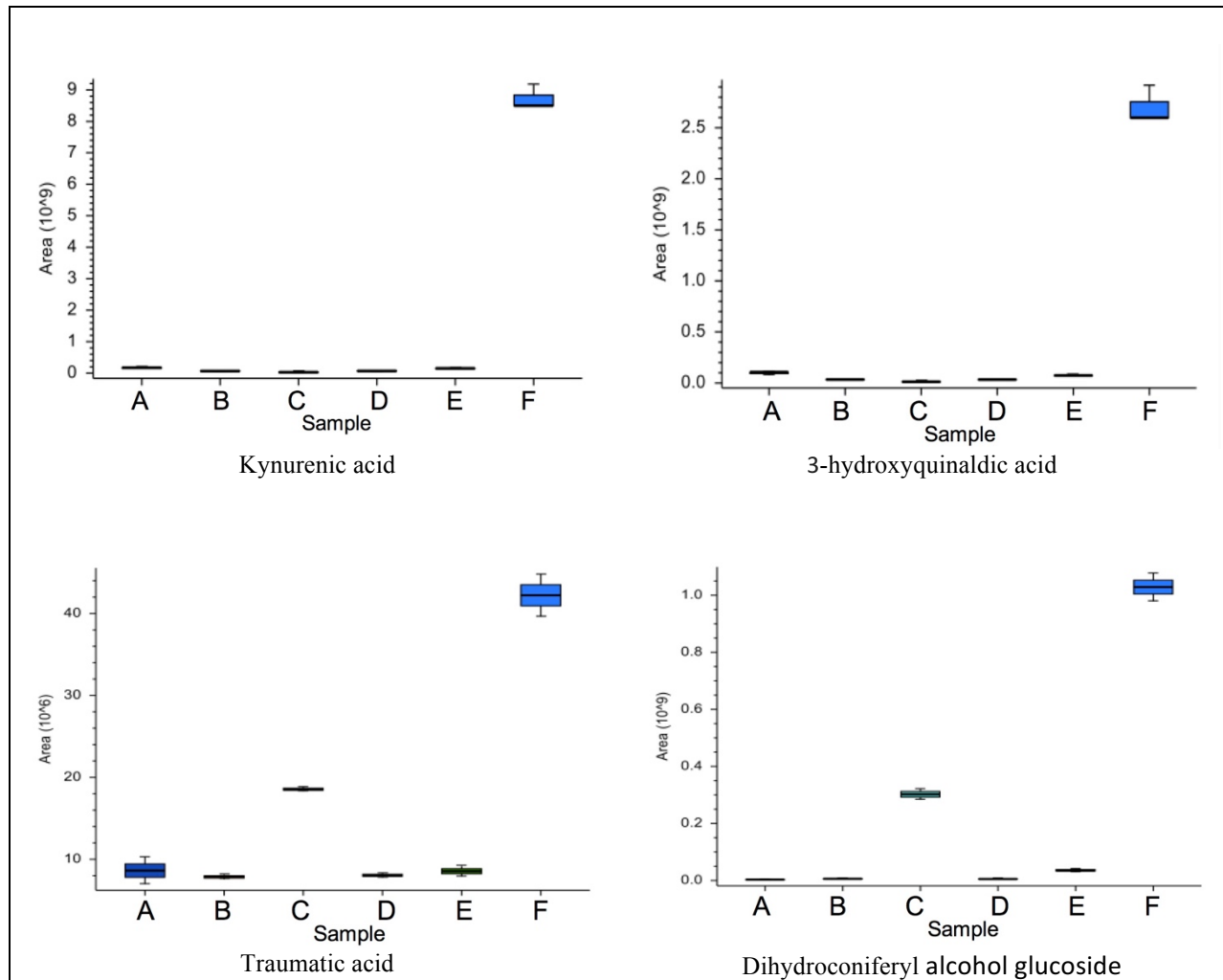
RT [min]	Name	Formula	exact mass
<b>Flavanone</b>			
17,6	4'-Hydroxyflavanone	C <sub>15</sub> H <sub>12</sub> O <sub>3</sub>	274,1777
19,3	Flavanone	C <sub>15</sub> H <sub>12</sub> O <sub>2</sub>	225,0910
19,5	Naringenin	C <sub>15</sub> H <sub>12</sub> O <sub>5</sub>	272,0682
23,6	Isosakuranetin	C <sub>16</sub> H <sub>14</sub> O <sub>5</sub>	287,0914
28,7	Sakuranetin	C <sub>16</sub> H <sub>14</sub> O <sub>5</sub>	287,0914
<b>Flavone</b>			
20,2	Hispidulin	C <sub>16</sub> H <sub>12</sub> O <sub>6</sub>	300,0630
20,4	6,7-Dihydroxyflavone	C <sub>15</sub> H <sub>10</sub> O <sub>4</sub>	254,0579
20,7	5,7,8-Trihydroxyflavone	C <sub>15</sub> H <sub>10</sub> O <sub>5</sub>	270,0522
21,3	Luteolin	C <sub>15</sub> H <sub>10</sub> O <sub>6</sub>	286,0477
21,9	5-Hydroxy-4',6,7-trimethoxyflavone	C <sub>18</sub> H <sub>16</sub> O <sub>6</sub>	328,0943
22,4	Hispidulin	C <sub>16</sub> H <sub>12</sub> O <sub>6</sub>	300,0630
22,4	7,8-Dihydroxyflavone	C <sub>15</sub> H <sub>10</sub> O <sub>4</sub>	254,0579
22,6	3',4'-Dihydroxyflavone	C <sub>15</sub> H <sub>10</sub> O <sub>4</sub>	254,0579
22,6	Tricin	C <sub>17</sub> H <sub>14</sub> O <sub>7</sub>	330,0736
23,5	Pectolinarigenin	C <sub>17</sub> H <sub>14</sub> O <sub>6</sub>	314,0787
26,2	5,6,7-Trihydroxyflavone	C <sub>15</sub> H <sub>10</sub> O <sub>5</sub>	270,0522
26,5	Tetramethylscutellarein	C <sub>19</sub> H <sub>18</sub> O <sub>6</sub>	342,1099
<b>Flavonol</b>			
11,0	5-Deoxykaempferol	C <sub>15</sub> H <sub>10</sub> O <sub>5</sub>	270,0520
18,3	Fisetin	C <sub>15</sub> H <sub>10</sub> O <sub>6</sub>	286,0470
19,3	Galangin	C <sub>15</sub> H <sub>10</sub> O <sub>5</sub>	270,0520
19,7	Quercetin	C <sub>15</sub> H <sub>10</sub> O <sub>7</sub>	302,0422
20,5	Kaempferol	C <sub>15</sub> H <sub>10</sub> O <sub>6</sub>	286,0473
20,6	3-Methylquercetin	C <sub>16</sub> H <sub>12</sub> O <sub>7</sub>	316,0580
24,9	Robinetin	C <sub>15</sub> H <sub>10</sub> O <sub>7</sub>	302,0421
25,1	Kaempferol 3,7,4'-trimethyl ether	C <sub>18</sub> H <sub>16</sub> O <sub>6</sub>	328,0943
<b>Isoflavone</b>			
17,3	Daidzein	C <sub>15</sub> H <sub>10</sub> O <sub>4</sub>	254,0579
18,8	Vestitone	C <sub>16</sub> H <sub>14</sub> O <sub>5</sub>	286,0838
19,3	3'-Hydroxybiochanin A	C <sub>16</sub> H <sub>12</sub> O <sub>6</sub>	300,0634
20,0	Biochanin A	C <sub>16</sub> H <sub>12</sub> O <sub>5</sub>	284,0685
21,0	2'-Hydroxyformononetin	C <sub>16</sub> H <sub>12</sub> O <sub>5</sub>	284,0685
22,3	Formononetin	C <sub>16</sub> H <sub>12</sub> O <sub>4</sub>	268,0735
23,0	3'-Hydroxyprunetin	C <sub>16</sub> H <sub>12</sub> O <sub>6</sub>	300,0634
23,5	Pisatin	C <sub>17</sub> H <sub>14</sub> O <sub>6</sub>	314,0787
24,2	Glycitein	C <sub>16</sub> H <sub>12</sub> O <sub>5</sub>	284,0681
24,3	Prunetin	C <sub>16</sub> H <sub>12</sub> O <sub>5</sub>	284,0685
25,0	Genistein	C <sub>17</sub> H <sub>10</sub> O <sub>5</sub>	270,0526
25,3	4',7-Dimethoxyisoflavone	C <sub>17</sub> H <sub>14</sub> O <sub>4</sub>	282,0892

<b>26,4</b>	Luteone	C <sub>20</sub> H <sub>18</sub> O <sub>6</sub>	354,1099
<b>Phenolic acid and derivates</b>			
<b>3,7</b>	protocatechuic acid	C <sub>7</sub> H <sub>6</sub> O <sub>4</sub>	154,0263
<b>10,2</b>	Dihydro-p-coumaric acid	C <sub>9</sub> H <sub>10</sub> O <sub>3</sub>	166,0627
<b>11,0</b>	dihydroconiferyl alcohol glucoside	C <sub>16</sub> H <sub>24</sub> O <sub>8</sub>	344,1468
<b>12,9</b>	dihydroconiferyl alcohol glucoside	C <sub>16</sub> H <sub>24</sub> O <sub>8</sub>	344,1466
<b>12,7</b>	3,4,5-Trimethoxycinnamic acid	C <sub>12</sub> H <sub>14</sub> O <sub>5</sub>	238,0838
<b>13,0</b>	p-coumaric acid	C <sub>9</sub> H <sub>8</sub> O <sub>3</sub>	164,0471
<b>13,5</b>	Cinnamic acid	C <sub>9</sub> H <sub>8</sub> O <sub>2</sub>	148,0522
<b>13,8</b>	Ferulic acid	C <sub>10</sub> H <sub>10</sub> O <sub>4</sub>	194,0575
<b>14,4</b>	4-Methoxycinnamic acid	C <sub>10</sub> H <sub>10</sub> O <sub>3</sub>	178,0627
<b>15,5</b>	Salicylic acid	C <sub>7</sub> H <sub>6</sub> O <sub>3</sub>	138,0314
<b>19,8</b>	tricoumaroyl spermidine	C <sub>34</sub> H <sub>37</sub> N <sub>3</sub> O <sub>6</sub>	583,2678
<b>27,8</b>	Coniferyl ferulate	C <sub>20</sub> H <sub>20</sub> O <sub>6</sub>	356,1257
<b>Quinoline</b>			
<b>5,9</b>	8-Hydroxyquinoline	C <sub>9</sub> H <sub>7</sub> NO	145,0525
<b>7,9</b>	2-Hydroxyquinoline	C <sub>9</sub> H <sub>7</sub> NO	145,0525
<b>9,4</b>	2-Quinolinecarboxylic acid	C <sub>10</sub> H <sub>7</sub> NO <sub>2</sub>	173,0474
<b>14,1</b>	6-Hydroxyquinoline	C <sub>9</sub> H <sub>7</sub> NO	145,0525
<b>Tryptophan metabolite</b>			
<b>7,9</b>	3-hydroxyquinaldic acid	C <sub>10</sub> H <sub>7</sub> NO <sub>3</sub>	189,0423
<b>10,7</b>	5-Hydroxyindole-3-acetic acid	C <sub>10</sub> H <sub>9</sub> NO <sub>2</sub>	191,0579
<b>13,6</b>	4-Aminobenzoic acid	C <sub>7</sub> H <sub>7</sub> NO <sub>2</sub>	137,0474
<b>14,1</b>	Kynurenic acid	C <sub>10</sub> H <sub>7</sub> NO <sub>3</sub>	189,0423
<b>Coumarine</b>			
<b>18,8</b>	Oxypeucedanin	C <sub>16</sub> H <sub>14</sub> O <sub>5</sub>	286,0838
<b>25,3</b>	4-Ethyl-7-hydroxy-3-(p-methoxyphenyl)coumarin	C <sub>18</sub> H <sub>16</sub> O <sub>4</sub>	296,1044
<b>Catechol metabolite</b>			
<b>2,4</b>	Guaiacol	C <sub>7</sub> H <sub>8</sub> O <sub>2</sub>	124,0523
<b>Dopamine metabolite</b>			
<b>2,4</b>	3,4-dihydroxyphenylacetic acid	C <sub>8</sub> H <sub>8</sub> O <sub>4</sub>	168,0421
<b>Carotenoid sesquiterpenoid</b>			
<b>13,4</b>	Phaseic acid	C <sub>15</sub> H <sub>20</sub> O <sub>5</sub>	280,1306
<b>Sesquiterpene</b>			
<b>11,0</b>	Artemisinin	C <sub>15</sub> H <sub>22</sub> O <sub>5</sub>	282,1463
<b>Glucuronated terpenoide</b>			
<b>17,4</b>	2-Hydroxy-2-(4-methyl-2-oxocyclohexyl)propyl hexopyranoside	C <sub>16</sub> H <sub>28</sub> O <sub>8</sub>	348,1780
<b>18,8</b>	Dihydroxyfenchone 6 - O - D-glucoside	C <sub>16</sub> H <sub>26</sub> O <sub>8</sub>	346,1624
<b>Fatty acid and derivatives</b>			
<b>18,8</b>	4-Hydroxynonenal	C <sub>9</sub> H <sub>16</sub> O <sub>2</sub>	156,1148
<b>19,6</b>	Dodecanedioic acid	C <sub>12</sub> H <sub>22</sub> O <sub>4</sub>	230,1514
<b>22,6</b>	9,12,13-Trihydroxy-10,15-octadecadienoic acid	C <sub>18</sub> H <sub>32</sub> O <sub>5</sub>	328,2246
<b>23,0</b>	Traumatic Acid	C <sub>12</sub> H <sub>20</sub> O <sub>4</sub>	228,1358
<b>23,3</b>	3-Hydroxytetradecanedioic acid	C <sub>14</sub> H <sub>26</sub> O <sub>5</sub>	274,1777
<b>23,5</b>	pinellic acid	C <sub>18</sub> H <sub>34</sub> O <sub>5</sub>	330,2403
<b>24,0</b>	12-Hydroxylauric acid	C <sub>12</sub> H <sub>24</sub> O <sub>3</sub>	216,1720

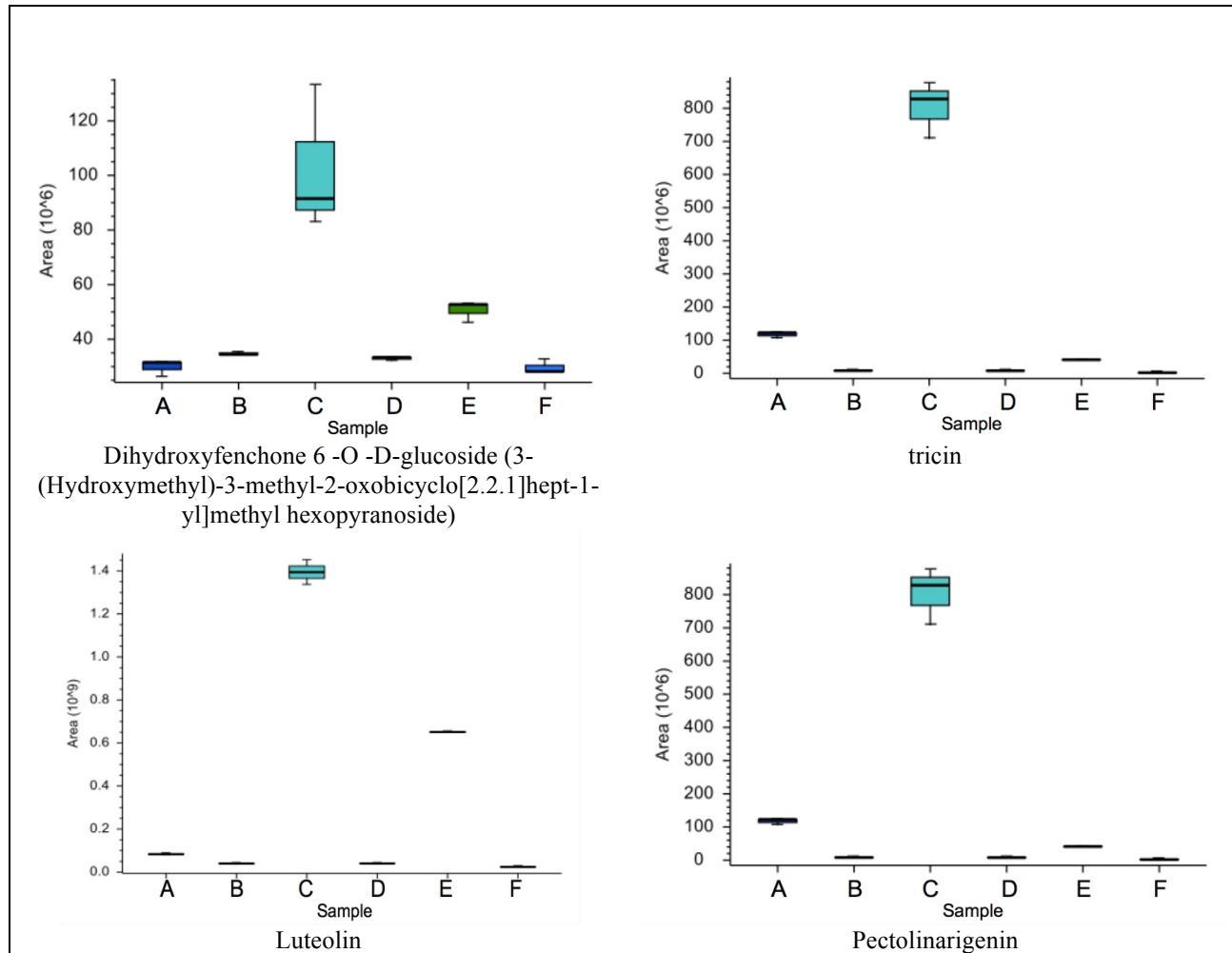
<b>26,2</b>	8-Hydroxyhexadecanedioic acid	$C_{16}H_{30}O_5$	302,2088
<b>26,7</b>	10,16-Dihydroxyhexadecanoic acid	$C_{16}H_{32}O_4$	288,2297
<b>28,7</b>	9,10-Dihydroxystearic acid	$C_{18}H_{36}O_4$	316,2609
<b>29,3</b>	Juniperic acid	$C_{16}H_{32}O_3$	272,2348
<b>32,3</b>	Elaidolinolenic acid	$C_{18}H_{30}O_2$	278,2241
<b>34,1</b>	Palmitic Acid	$C_{16}H_{32}O_2$	256,2399
<b>34,3</b>	Oleic acid	$C_{18}H_{34}O_2$	282,2555
<b>linear dicarboxylic acid</b>			
<b>13,6</b>	Suberic acid	$C_8H_{14}O_4$	174,0888
<b>14,0</b>	3-Hydroxysebacic acid	$C_{10}H_{18}O_5$	218,1150
<b>19,7</b>	Sebacic acid	$C_{10}H_{18}O_4$	202,1203
<b>Antimicrobial Peptide</b>			
<b>26,9</b>	Heliomycin	$C_{22}H_{16}O_6$	376,0943
<b>N-acyl-aminoacids</b>			
<b>1,3</b>	N-Phenylacetylglutamic acid	$C_{13}H_{15}N_2O_5$	265,0947
<b>12,3</b>	N-Acetyl-L-phenylalanine	$C_{11}H_{13}N_2O_3$	207,0892

Figure S1. Most important metabolites for each honey.

*Compounds dominant in F*

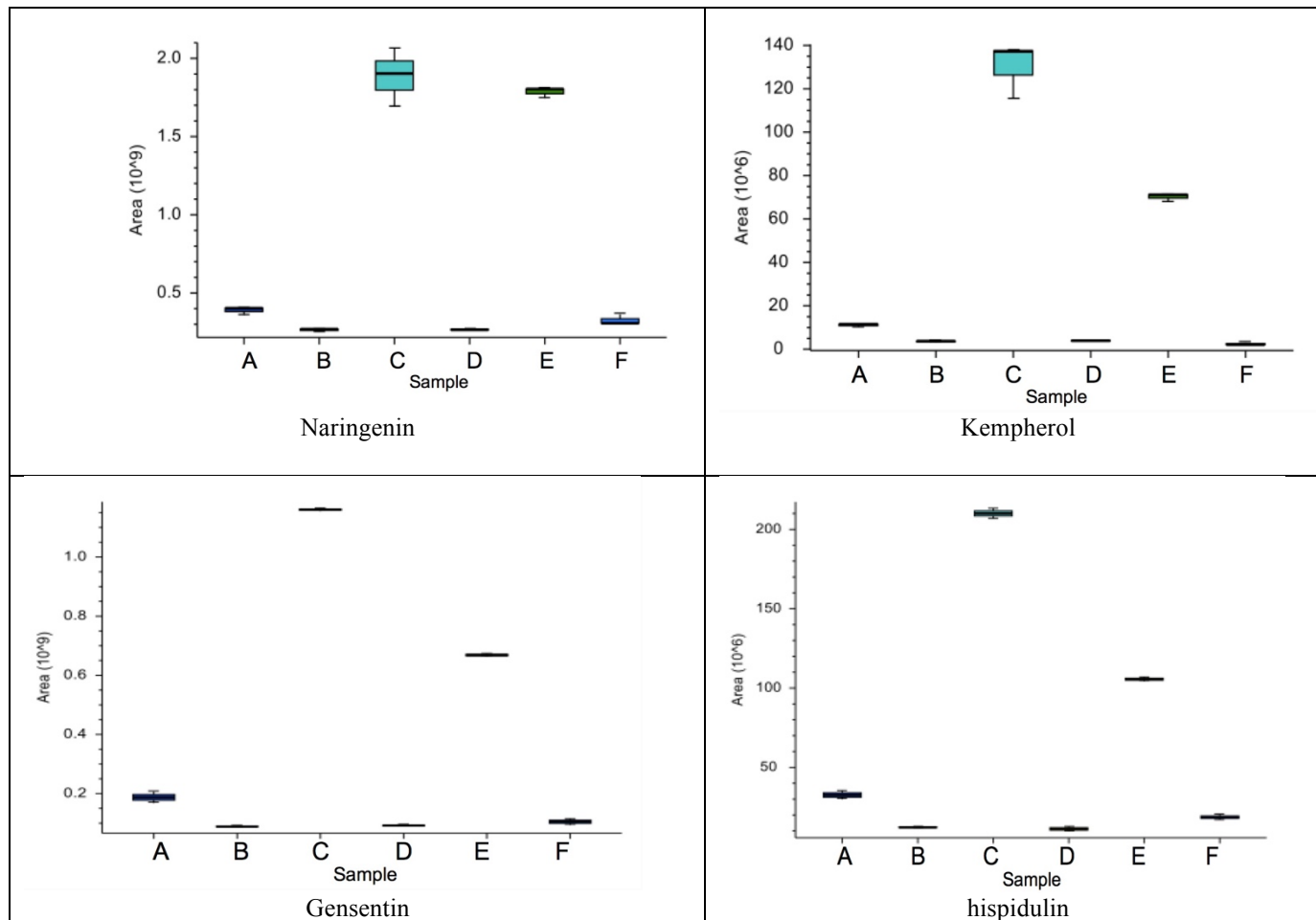


Compounds dominant in C





Compounds dominant in C and E



*Compounds dominant in B and D*

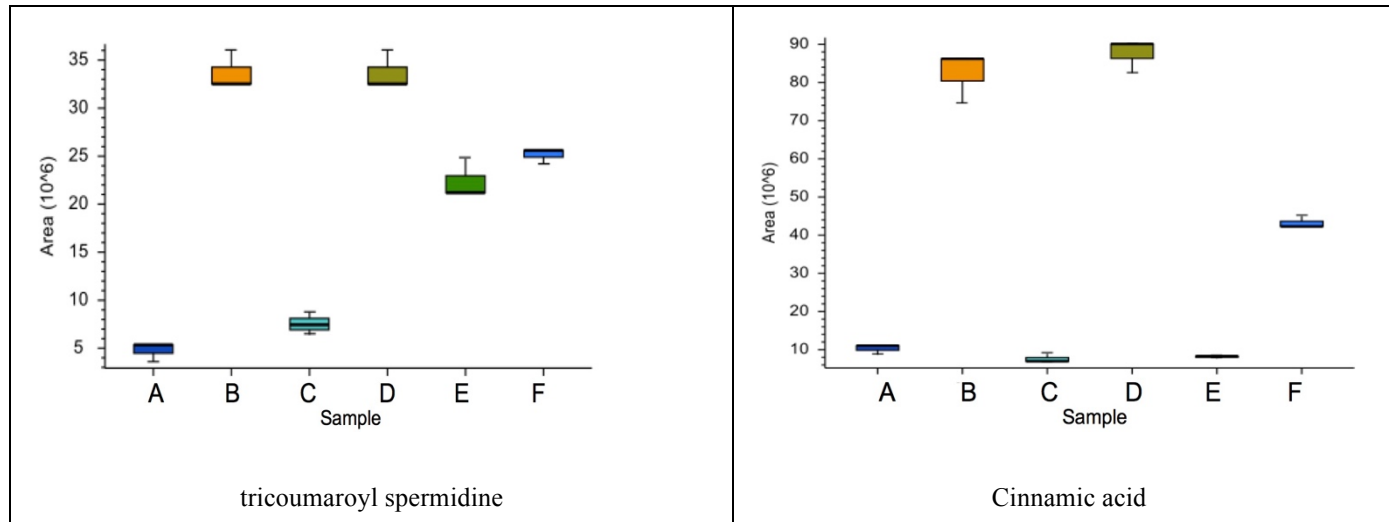


Figure S2. Main metabolic pathway identified in isoflavonoids.

