

Table S1. Molecular Complex Detection (MCODE) results

MCODE cluster	No. of proteins	MCODE score	Seed protein
Cluster 1	10	6.222	MTOR
Cluster 2	7	5.000	PTPN6
Cluster 3	5	5.000	PPARA
Cluster 4	4	4.000	CDK5
Cluster 5	4	3.333	CYP2C19
Cluster 6	3	3.000	SHBG
Cluster 7	3	3.000	NFE2L2
Cluster 8	3	3.000	S1PR5

Table S2. Characteristic of the GC-MS Identified Compounds.

Peak No.	RT (min)	Hit Rank	Compound Identified	Retained after Deduplication
1.	3.684	1	2-Butyl-3-methyloxirane	Yes
	3.684	2	5-Ethyl-2-heptanol	Yes
	3.684	3	2-Butyl-3-methyloxirane	No (Duplicate)
	3.684	4	Isobutyl carbinol	Yes
	3.684	5	Isobutyl carbinol	No (Duplicate)
2	3.958	1	2,4-Dihydroxy-2,5-dimethyl-3(2H)-furanone	Yes
	3.958	2	Propylal	Yes
	3.958	3	4-Methoxy-4-methylpentan-2-on	Yes
	3.958	4	Ethyl 3-(acetyloxy)-2-	Yes

			(hydroxymethyl)propanoat	
	3.958	5	2,4-Dimethyl-2-vinyl-1,3-dioxolane	Yes
3	6.266	1	3,5-Dihydroxy-6-methyl-2,3-dihydro-4H-pyran-4-one	Yes
	6.266	2	3,5-Dihydroxy-6-methyl-2,3-dihydro-4H-pyran-4-one	No (Duplicate)
	6.266	3	2,4,5-Trimethyl-1,3-dioxolane	Yes
	6.266	4	2,3-Butylene	Yes
	6.266	5	1,2-Dimethylethylene carbonate	Yes
4	6.954	1	Ethyl 3-[1-benzoyl-3-(2-chloroethyl)-4-piperidiny]propanoate	Yes
	6.954	2	Carboxybenzene	Yes
	6.954	3	Carboxybenzene	No (Duplicate)
	6.954	4	Cyclobutane-1,1-dicarboxamide, N,N'-di-benzoyloxy-	Yes
	6.954	5	1-Methyl-2-oxoethyl benzoate	Yes
5	7.531	1	(4E)-4-Methyl-4-hepten-3-one	Yes
	7.531	2	4,5-Dimethyl-4-hexen-3-one	Yes
	7.531	3	Hydroxymethylfurfurole	Yes
	7.531	4	Hydroxymethylfurfurole	No (Duplicate)
	7.531	5	(4E)-5-Methyl-4-hepten-3-one	Yes
6	8.405	1	p-Vinylguaiaicol	Yes
	8.405	2	1,2-Bis(2,6-dimethylphenyl)diazene 1,2-dioxide	Yes
	8.405	3	2,7-Dioxa-tricyclo[4.4.0.0(3,8)]deca-4,9-diene	Yes
	8.405	4	p-(Hydroxymethyl)nitrobenzene	Yes
	8.405	5	3-Nitro-4-methylaniline	Yes
7	9.069	1	Cyclohexylmethylcarbinol	Yes
	9.069	2	Cyclohexylmethylcarbinol	No (Duplicate)
	9.069	3	2-(Tetrahydro-2H-pyran-2-	Yes

			xyloxy)propanoic acid	
	9.069	4	Methoxyacetic acid, 10-undecenyl este	Yes
	9.069	5	7-Octen-2-ol	Yes
8	10.521	1	Epoxylinol	Yes
	10.521	2	Acetic acid, [4-(1-hydroxy-1-methylethyl)cyclohex-1-enyl]methyl ester	Yes
	10.521	3	Cyclohexene, 3-acetoxy-4-(1-hydroxy-1-methylethyl)-1-methyl-	Yes
	10.521	4	3-Methylene-7-methyl-1-octen-7-ol	Yes
	10.521	5	Bicyclo[3.3.1]non-6-en-3-ol	Yes
9	11.481	1	4-Ethyl-3-methyl-4-penten-2-one	Yes
	11.481	2	5-Hexene-2-one	Yes
	11.481	3	5-Hexene-2-one	No (Duplicate)
	11.481	4	5-Hexene-2-one	No (Duplicate)
	11.481	5	5-Hexene-2-one	No (Duplicate)
10	12.509	1	8a-(4-Hydroxyphenoxy)-3,5,6,7,8,8a-hexahydro-2H-chromen-2-one	Yes
	12.509	2	Octahydroborolo[1,2-a]borinine	Yes
	12.509	3	3,5-Cyclohexadiene-1,2-diol	Yes
	12.509	4	Bicyclo[3.2.2]non-3-en-2-one, 6,7-epoxy	Yes
	12.509	5	3-(2-Furyl)-2-propene	Yes
11	16.849	1	3-O-Methyl-d-glucose	Yes
	16.849	2	3-Methylmannoside	Yes
	16.849	3	alpha.-Methyl mannofuranoside	Yes
	16.849	4	alpha.-d-Mannofuranoside, methyl	Yes
	16.849	5	beta.-d-Mannofuranoside, methyl	Yes
12	18.959	1	Methyl (11E)-11-octadecenoate	Yes
	18.959	2	Methyl (10E)-10-octadecenoate	Yes
	18.959	3	(E)-9-Octadecenoic acid	Yes
	18.959	4	Methyl (14E)-14-octadecenoate	Yes

	18.959	5	Methyl (13E)-13-octadecenoate	Yes
13	23.537	1	2-Methyl-Z,Z-3,13-octadecadienol	Yes
	23.537	2	Z-9-Tetradecenal	Yes
	23.537	3	(11Z)-11-Hexadecenal	Yes
	23.537	4	(13Z)-13-Octadecenal	Yes
	23.537	5	3,11-Tetradecadien-1-o	Yes

Table S3. GC-MS Result Identified Peaks' Characteristics.

Peak No.	Retention Time (min)	Peak Area	Area (%)	Peak Height	Height (%)
1	3.684	15,560,011	10.54	1,019,699	8.63
2	3.958	4,147,038	2.81	676,062	5.72
3	6.266	8,434,058	5.71	1,096,584	9.28
4	6.954	4,846,643	3.28	450,692	3.81
5	7.531	16,344,336	11.07	2,259,750	19.11
6	8.405	1,534,391	1.04	232,350	1.97
7	9.069	2,262,320	1.53	219,741	1.86
8	10.521	1,492,692	1.01	201,654	1.71
9	11.481	1,203,323	0.82	381,073	3.22
10	12.509	2,113,344	1.43	176,603	1.49
11	16.849	83,496,905	56.56	4,337,179	36.69
12	18.959	2,798,762	1.90	330,414	2.79
13	23.537	3,388,535	2.30	440,676	3.73