

Supplementary materials

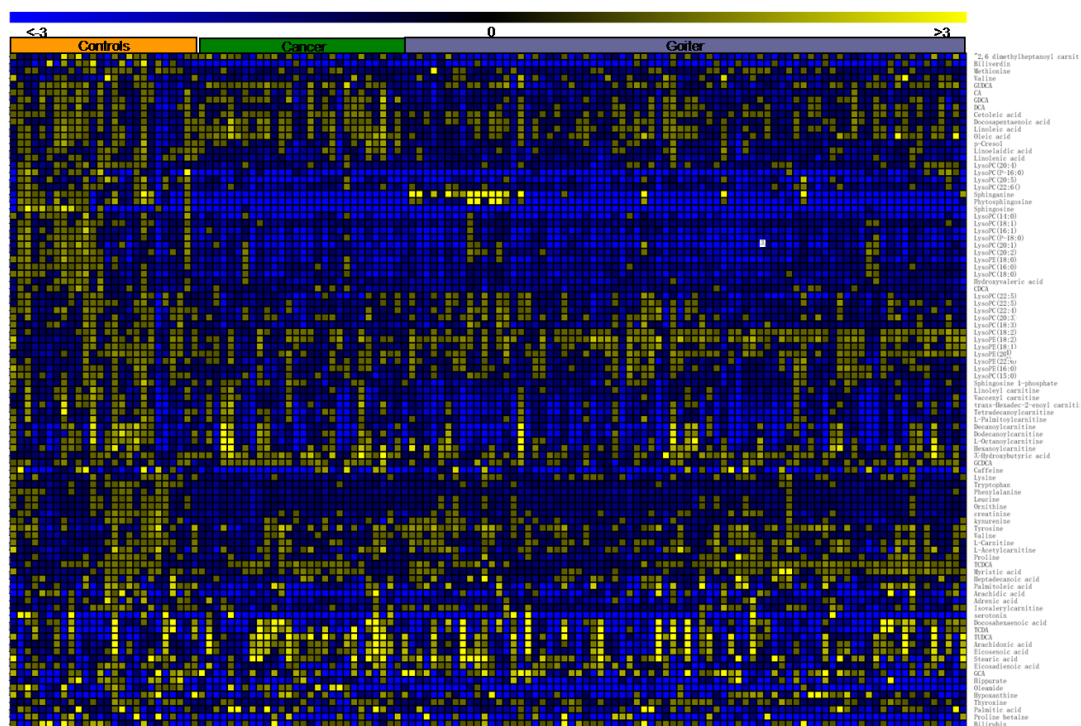


Fig. S1 Heat map of 89 metabolites detected in the serum. The changing folds of these metabolites compared to their average in the control group were marked with different colors.

Table S1 Diagnosis, staging and other information of enrolled papillary thyroid carcinoma patients

ID	Gender (F:female, M: male)	Age	Diagnosis(L:left, R: Right)	Tumor diameter (cm)	stage	Cervical lymph node metastasis	Distant Metastasis	TT3 (µg/L)	TT4(nmol/L)	TSH(mIU/L)
60	F	28	PTC(L)	1.50	I	Yes	no	1.55	83.8	1.290
64	F	62	PTC(L)	0.80	I	none	no	1.36	111.5	1.820
71	F	39	PTC(L)	1.60	I	Yes	no	1.46	103.4	3.910
77	F	47	PTC(L)	1.20	II	none	no	1.71	122.9	1.300
113	M	39	PTC(R)	1.10	I	Yes	no	1.52	124.0	0.020
114	F	30	PTC(R)	0.60	I	Yes	no	0.88	114.7	0.690
132	M	55	PTC(R)	2.50	II	none	no	0.98	142.9	1.050
133	F	27	PTC(L)	1.40	I	Yes	no	0.89	134.9	2.030
148	F	40	PTC(L)	0.80	I	none	no	1.04	114.7	2.250

149	F	53	PTC(L)	0.60	I	none	no	1.21	95.1	2.110
157	M	34	PTC(R)	2.00	I	none	no	1.17	81.4	2.170
158	M	45	PTC(R)	0.40	I	none	no	1.15	115.7	1.750
162	M	40	PTC(R,L)	1.80	I	Yes	no	1.53	131.0	2.610
163	M	50	PTC(L)	1.00	I	none	no	1.05	147.8	1.630
164	F	34	PTC(L)	1.50	I	Yes	no	1.47	140.7	1.470
168	M	43	PTC(R,L)	0.80	I	none	no	1.26	135.3	4.640
173	F	21	PTC(L)	0.93	I	none	no	1.31	107.1	4.240
175	F	20	PTC(R)	0.40	I	none	no	1.23	109.7	0.760
181	M	13	PTC(R,L)	5.00	I	Yes	no	1.52	134.2	4.920
183	F	47	PTC(R,L)	2.00	III	Yes	no	1.15	114.5	1.110
184	F	19	PTC(L)	3.00	I	none	no	1.17	119.7	0.950