

Table S3. Clinical, histological data and MCTA-Seq analysis of HCC patients.

ID	Group	Age	HBV	Nodule	Tumor size (cm)	Vascular invasion	TNM staging	ccfDNA (ng/ml plasma)	AFP (ng/ml)	ALT (U/L)	GGT (U/L)	Classifier I (score)	Classifier II (No. of hypermethylated markers)	Classification by the "OR" operation	Classification by the "AND" operation
P50	Training	68	Yes	Multiple	15	Yes	T3aN0M0	10.1	>1210	29	145	1	15	Positive	Positive
P92	Training	77	No	Multiple	15	Yes	T3bN0M0	19.2	>1210	26	105	1	15	Positive	Positive
P29	Training	56	No	Unique	11.2	Yes	T4N0M0	105	>1210	29	142	1	15	Positive	Positive
P119	Training	50	Yes	Unique	11	Yes	T3bN0M0	20.1	4.41	35	112	1	13	Positive	Positive
P41	Training	57	No	Multiple	8	No	T3aN0M0	4.0	59	185	40	1	14	Positive	Positive
P109	Training	74	No	Unique	8	No	T1N0M0	13.0	2.61	37	32	1	12	Positive	Positive
P101	Training	76	Yes	Unique	7	Yes	T2N0M0	53.7	>1210	36	259	1	15	Positive	Positive
P3	Training	42	Yes	Multiple	5.6	No	T3aN0M0	27.8	78.5	32	73	1	12	Positive	Positive
P37	Training	64	Yes	Unique	5	No	T1N0M0	39.6	675.9	33	37	1	15	Positive	Positive
P114	Training	39	Yes	Multiple	5	Yes	T4N0M0	6.4	>1210	62	281	1	15	Positive	Positive
P85	Training	63	Yes	Unique	4.5	Yes	T2N0M0	45.6	16.2	27	42	1	15	Positive	Positive
P57	Training	76	No	Unique	4	Yes	T2N0M0	11.8	2.29	45	143	1	6	Positive	Positive
P62	Training	51	Yes	Unique	4	Yes	T4N0M0	39.6	20.23	70	38	0.32	1	Negative	Negative
P77	Training	61	Yes	Unique	4	Yes	T4N0M0	38.4	>1210	14	49	0.98	15	Positive	Positive
P10	Training	56	Yes	Multiple	3.5	No	T2N0M0	17.0	768.5	38	77	0.86	13	Positive	Positive
P39	Training	72	Yes	Multiple	3.5	No	T2N0M0	70.2	3.65	18	32	0.97	15	Positive	Positive

P60	Training	70	Yes	Unique	3.5	yes	T3bNOM0	35.2	446.5	34	72	1	10	Positive	Positive
P115	Training	60	Yes	Unique	3.3	No	T1NOM0	15.3	27.4	66	130	0.99	15	Positive	Positive
P36	Training	44	Yes	Unique	3	No	T1NOM0	57.4	5.74	70	34	0.23	15	Positive	Negative
P44	Training	63	Yes	Multiple	3	Yes	T2NOM0	35.6	>1210	14	137	1	15	Positive	Positive
P59	Training	73	No	Unique	3	No	T1NOM0	7.4	>1210	18	20	1	14	Positive	Positive
P74	Training	68	No	Unique	3	Yes	T2NOM0	10.4	12.6	10	20	1	15	Positive	Positive
P80	Training	70	Yes	Unique	3	No	T1NOM0	29.9	36.8	19	30	1	15	Positive	Positive
P81	Training	61	No	Unique	2.8	No	T1NOM0	44.7	8.23	15	39	1	15	Positive	Positive
P113	Training	63	No	Unique	2.1	Yes	T4NOM0	1.9	126.1	14	19	0.08	0	Negative	Negative
P58	Training	60	No	Unique	2	No	T1NOM0	0.6	3.64	31	262	0.06	13	Positive	Negative
P51	Training	51	Yes	Unique	1.5	No	T1NOM0	149	5.12	80	52	1	14	Positive	Positive
P153	Testing	45	Yes	Unique	16	No	T1NOM0	ND	>1210	26	121	1	14	Positive	Positive
P165	Testing	49	Yes	Unique	13	Yes	T2NOM0	ND	>1210	29	24	1	13	Positive	Positive
P158	Testing	76	No	Unique	11	Yes	T4NOM1	225	>1210	31	131	1	12	Positive	Positive
P154	Testing	49	Yes	Multiple	6	Yes	T3aNOM0	ND	3.31	34	183	1	15	Positive	Positive
P162	Testing	82	Yes	Multiple	6	Yes	T3aNOM0	ND	9.36	27	40	1	15	Positive	Positive
P151	Testing	60	Yes	Unique	4.5	No	T1NOM0	ND	6.25	41	47	0.34	6	Positive	Negative
P166	Testing	63	No	Unique	4	No	T1NOM0	50.1	5.64	45	117	0.13	10	Positive	Negative
P134	Testing	58	No	Unique	4	Yes	T2NOM0	62.7	204.8	45	401	0.35	15	Positive	Negative
P144	Testing	72	No	Unique	2.5	No	T1NOM0	ND	3.87	25	40	0.64	5	Positive	Negative