

Supplementary Table 1: TaqMan® MicroRNA Human Assays form Applied biosystem used in this study

Assay Name	Part Number	AB Assay ID	Target Sequence	miRNAs expressed in at least 10% of the samples
hsa-let-7a	4373169	000377	UGAGGUAGUAGGUUGUAUAGUU	*
hsa-let-7b	4373168	000378	UGAGGUAGUAGGUUGUGUGUU	*
hsa-let-7c	4373167	000379	UGAGGUAGUAGGUUGUAUGUU	*
hsa-let-7d	4373166	000380	AGAGGUAGUAGGUUGCAUAGU	*
hsa-let-7e	4373165	000381	UGAGGUAGGAGGUUGUAUAGU	*
hsa-let-7f	4373164	000382	UGAGGUAGUAGUUGUAUAGUU	*
hsa-let-7g	4373163	000383	UGAGGUAGUAGUUUGUACAGU	*
hsa-let-7i	4373162	000384	UGAGGUAGUAGUUUGUCUGU	*
hsa-miR-1	4373161	000385	UGGAAUGUAAAGAAGUAUGUA	*
hsa-miR-100	4373160	000437	AACCGUAGAUCCGAACUUGUG	*
hsa-miR-101	4373159	000438	UACAGUACUGUGUAACUGAAG	*
hsa-miR-103	4373158	000439	AGCAGCAUUGUACAGGGCUAUGA	*
hsa-miR-106a	4373156	000578	AAAAGUGCUUACAGUGCAGGUAGC	*
hsa-miR-106b	4373155	000442	UAAAGUGCUGACAGUGCAGAU	*
hsa-miR-107	4373154	000443	AGCAGCAUUGUACAGGGCUAUC	*
hsa-miR-10a	4373153	000387	UACCCUGUAGAUCCGAUUUGUG	*
hsa-miR-10b	4373152	000388	UACCCUGUAGAACCGAAUUUGU	*
hsa-miR-122a	4373151	000445	UGGAGUGUGACAAGGUGUUUGU	*
hsa-miR-124a	4373150	000446	UUAAGGCACGGGUAUGCCA	*
hsa-miR-125a	4373149	000448	UCCUGAGACCCUUUACCCUGUG	*
hsa-miR-125b	4373148	000449	UCCUGAGACCCUAACUUGUGA	*
hsa-miR-126#	4373269	000451	CAUUUUUACUUUUGGUACGCG	*
hsa-miR-127	4373147	000452	UCGGAUCCGUCUGAGCUUGGCU	*
hsa-miR-128a	4373146	000453	UCACAGUGAACCGGUCUCUUUU	*
hsa-miR-128b	4373170	000589	UCACAGUGAACCGGUCUCUUUC	*
hsa-miR-129	4373171	000590	CUUUUUUGGUCUGGGCUUGC	*
hsa-miR-130a	4373145	000454	CAGUGCAAUUGUUAAAAGGGCAU	*
hsa-miR-130b	4373144	000456	CAGUGCAAUUGUAAAAGGGCAU	*
hsa-miR-132	4373143	000457	UAACAGUCUACAGCCAUGGUCG	*
hsa-miR-133a	4373142	000458	UUGGUCCCCUCAACCAGCUGU	*
hsa-miR-133b	4373172	000591	UUGGUCCCCUCAACCAGCUA	*
hsa-miR-134	4373141	000459	UGUGACUGGUUAGACCAGAGGG	*
hsa-miR-135a	4373140	000460	UAUGGCUUUUUAUCCUAUGUGA	*
hsa-miR-135b	4373139	000461	UAUGGCUUUUUAUCCUAUGUG	*
hsa-miR-137	4373174	000593	UAUUGCUUAAAGAAUACCGCUAG	*
hsa-miR-138	4373175	000594	AGCUGGUGUUGUGAAUC	*
hsa-miR-139	4373176	001096	UCUACAGUGCACGUGUCU	*
hsa-miR-140	4373138	000462	AGUGGUUUUACCCUAUGGUAG	*
hsa-miR-141	4373137	000463	UAACACUGUCUGUAAAAGUUG	*
hsa-miR-142-3p	4373136	000464	UGUAGUGUUUCCUACUUUAUGGA	*
hsa-miR-142-5p	4373135	000465	CAUAAAGUAGAAAGCACUAC	*
hsa-miR-143	4373134	000466	UGAGAUGAAGCACUGUAGCUCA	*
hsa-miR-145	4373133	000467	GUCCAGUUUCCAGGAUCCCUU	*
hsa-miR-146a	4373132	000468	UGAGAACUGAAUUCUAGGGUU	*
hsa-miR-146b	4373178	001097	UGAGAACUGAAUUCUAGGCU	*
hsa-miR-147	4373131	000469	GUGUGUGGAAUUGCUUCUG	*
hsa-miR-148a	4373130	000470	UCAGUGCACUACAGAACUUUGU	*
hsa-miR-148b	4373129	000471	UCAGUGCACUACAGAACUUUGU	*
hsa-miR-149	4373128	000472	UCUGGCUCCGUGUCUACUCC	*
hsa-miR-150	4373127	000473	UCUCCCAACCCUUGUACCCAGU	*
hsa-miR-151	4373179	000596	ACUAGACUGAAGCUCUUGAGG	*
hsa-miR-152	4373126	000474	UCAGUGCAGUACAGAACUUGGG	*
hsa-miR-153	4373125	000476	UUGCAUAGUCAAAAGUGA	*
hsa-miR-154	4373270	000477	UAGGUUAUCCGUGUUGCCUUCG	*
hsa-miR-155	4373124	000479	UUAUUGCUAAUCGUAUAGGGG	*
hsa-miR-15a	4373123	000389	UAGCAGCACAAUUGUUUGUG	*
hsa-miR-15b	4373122	000390	UAGCAGCACAAUUGUUUACA	*
hsa-miR-16	4373121	000391	UAGCAGCACGUAUUUUGGCG	*
hsa-miR-17-3p	4373120	000392	ACUGCAGUGAAGGCACUUGU	*
hsa-miR-17-5p	4373119	000393	CAAAGUGCUUACAGUGCAGGUAGU	*
hsa-miR-181a	4373117	000480	AACAUUCAACGUGUCGGUGAGU	*
hsa-miR-181b	4373116	001098	AACAUUCAUUGCUGUCGGUGGG	*
hsa-miR-181c	4373115	000482	AACAUUCAACCUUGUCGGUGAGU	*
hsa-miR-181d	4373180	001099	AACAUUCAUUGUUGUCGGUGGGU	*
hsa-miR-182	4373271	000597	UUUGGCAUUGGUAAGAACUCACA	*
hsa-miR-183	4373114	000484	UAUGGCACUGGUAUUAUCACUG	*
hsa-miR-184	4373113	000485	UGGACGGAGAACUGAUAGGGU	*
hsa-miR-186	4373112	000486	CAAAGAAUUCUCCUUUUGGGCUU	*
hsa-miR-187	4373111	000487	UCGUGUCUUGUGUUGCAGCGG	*
hsa-miR-188	4373182	001008	CAUCCCUUGCAUUGGUGAGGGU	*
hsa-miR-18a	4373118	000394	UAAGGUGCAUCUAGUGCAGAU	*
hsa-miR-190	4373110	000489	UGAUUUGUUUUAUUAUUGGU	*
hsa-miR-191	4373109	000490	CAACGGAUCCCAAAGCAGCU	*
hsa-miR-192	4373108	000491	CUGACCUAUGAAUUGACAGCC	*
hsa-miR-193a	4373107	000492	AACUGGCCUCAAAGUCCGCUU	*
hsa-miR-193b	4373185	001010	AACUGGCCUCAAAGUCCGCUU	*
hsa-miR-194	4373106	000493	UGUAACAGCAACUCCAUUGGGA	*
hsa-miR-195	4373105	000494	UAGCAGCACAGAAUUAUUGGC	*
hsa-miR-196a	4373104	000495	UAGGUAGUUUCAUGUUGUUGG	*
hsa-miR-196b	4373103	000496	UAGGUAGUUUCCUUGUUGUUGG	*
hsa-miR-197	4373102	000497	UUCACCACCUUCCACCCAGC	*
hsa-miR-198	4373101	000581	GGUCCAGAGGGGAGAUAGG	*
hsa-miR-199a	4373272	000498	CCCAGUGUUCAGACUACCCUUG	*
hsa-miR-199b	4373100	000500	CCCAGUGUUUAGACUACUUGUUC	*
hsa-miR-19a	4373099	000395	UGUGCAAUUCUAGUCAAACUGA	*
hsa-miR-19b	4373098	000396	UGUGCAAUUCUAGUCAAACUGA	*
hsa-miR-200a#	4373273	001011	CAUCUUACGGACAGUCUGGA	*
hsa-miR-200c	4373096	000505	UAUUAUCGCCGGUUAUGAUGG	*

Assay Name	Part Number	AB Assay ID	Target Sequence	miRNAs expressed in at least 10% of the samples
hsa-miR-202#	4373274	001013	UUUCCUAUGCAUUAUCUUCUUU	
hsa-miR-203	4373095	000507	GUGAAAUGUUUAGGACCACUAG	*
hsa-miR-204	4373094	000508	UUCCUUUGUCAUCCUAGCCU	*
hsa-miR-205	4373093	000509	UCCUUAUUAUCCACCGGAGUCUG	
hsa-miR-206	4373092	000510	UGGAAUGUAAGGAAGUGUGUGG	
hsa-miR-208	4373091	000511	AUAAGACGAGCAAAAAGCUUGU	
hsa-miR-20a	4373286	000580	UAAAGUGCUUAUAGUGCAGGUAG	*
hsa-miR-20b	4373263	001014	CAAAGUGCUCUAUAGUGCAGGUAG	*
hsa-miR-21	4373090	000397	UAGCUUAUCAGACUGAUUUUGA	*
hsa-miR-210	4373089	000512	CUGUGCGUGUGACAGCGGCGUGA	*
hsa-miR-211	4373088	000514	UUCCUUUGUCAUCCUUCGCCU	
hsa-miR-212	4373087	000515	UAACAGUCUCCAGUCACGGCC	
hsa-miR-213	4373086	000516	ACCAUCGACCGUUAUUGUAGCC	
hsa-miR-214	4373085	000517	ACAGCAGGCACAGACAGGCAG	*
hsa-miR-215	4373084	000518	AUGACCUAUGAAUUGACAGAC	*
hsa-miR-216	4373083	000519	UAAUCUCAGCUGGCAACUGUG	
hsa-miR-217	4373082	000520	UACUGCAUCAGGAACUGAUUGGAU	
hsa-miR-218	4373081	000521	UUGUGCUUGAUUAACCAUGU	
hsa-miR-219	4373080	000522	UGAUUGUCCAACGCAAUUCU	
hsa-miR-22	4373079	000398	AAGCUGCCAGUUGAAGAAGCUGU	*
hsa-miR-220	4373078	000523	CCACACCGUAUCUGACACUUU	
hsa-miR-221	4373077	000524	AGCUACAUCUGUCUGUGGUUUUC	*
hsa-miR-222	4373076	000525	AGCUACAUCUGGCUACUGGGUCUC	*
hsa-miR-223	4373075	000526	UGUCAGUUUGUCAAAUACCCC	*
hsa-miR-224	4373187	000599	CAAGUCACUAGUGGUUCCGUUUA	*
hsa-miR-23a	4373074	000399	AUCACAUUGCCAGGGAUUUCC	*
hsa-miR-23b	4373073	000400	AUCACAUUGCCAGGGAUUUCC	*
hsa-miR-24	4373072	000402	UGGCUCAGUUCAGCAGGAACAG	*
hsa-miR-25	4373071	000403	CAUUGCACUUGUCUCGGUCUGA	*
hsa-miR-26a	4373070	000404	UUCAAGUAAUCCAGGAUAGGC	*
hsa-miR-26b	4373069	000406	UUCAAGUAAUCCAGGAUAGGUU	*
hsa-miR-27a	4373287	000408	UUCACAGUGGCUAAGUUCGCG	*
hsa-miR-27b	4373068	000409	UUCACAGUGGCUAAGUUCGCG	*
hsa-miR-28	4373067	000411	AAGGAGCUCACAGUCUAUUGAG	*
hsa-miR-296	4373066	000527	AGGGCCCCCUCUAAUCCUGU	
hsa-miR-299-5p	4373188	000600	UGGUUUACCGUCCCAUAUCAU	
hsa-miR-29a	4373065	000412	UAGCACCUCUGAAAUCGGUU	*
hsa-miR-29b	4373288	000413	UAGCACCUCUGAAAUCGAGUUU	*
hsa-miR-29c	4373289	000415	UAGCACCUCUGAAAUCGCGU	*
hsa-miR-301	4373064	000528	CAGUGCAAUAGUUAUUGUCAAAGC	*
hsa-miR-302a#	4373275	000530	UAAACGUGGAGUUAUUGCUUUU	
hsa-miR-302b#	4373276	000532	ACUUUAAACAUAGGAAGUGCUUUU	
hsa-miR-302c#	4373277	000534	UUUAAACAUUGGGGUACCGUCUG	
hsa-miR-302d	4373063	000535	UAAGUCUCCAUUGUUGAGUGU	
hsa-miR-30a-3p	4373062	000416	CUUUCAGUCGGAGUUGUUCGAGC	*
hsa-miR-30a-5p	4373061	000417	UGUAAACAUCUCCGACUGGAAG	*
hsa-miR-30b	4373290	000602	UGUAAACAUCUACACUCAGCU	
hsa-miR-30c	4373060	000419	UGUAAACAUCUACACUCAGC	*
hsa-miR-30d	4373059	000420	UGUAAACAUCUCCGACUGGAAG	*
hsa-miR-30e-3p	4373057	000422	CUUUCAGUCGGAGUUAUACAGC	*
hsa-miR-30e-5p	4373058	000421	UGUAAACAUCUUGACUGGA	*
hsa-miR-31	4373190	001100	GGCAAGAUUCUGGCAUAGCUG	
hsa-miR-32	4373056	000423	UAUUGCACAUUAUCUAGUUGC	*
hsa-miR-320	4373055	000536	AAAAGCUGGGUUGAGAGGGCGAA	*
hsa-miR-323	4373054	000538	GCACAUUACACGGUCGACCUCU	
hsa-miR-324-3p	4373053	000579	CCACUGCCCCAGGUCUGCUGG	*
hsa-miR-324-5p	4373052	000539	CGCAUCCCUUAGGGCAUUGGUGU	*
hsa-miR-325	4373051	000540	CCUAGUAGGUGUCCAGUAAAGUGU	
hsa-miR-326	4373050	000542	CCUCUGGGCCUUCUCCAG	
hsa-miR-328	4373049	000543	CUGGCCUCUCUGCCUUCGCU	*
hsa-miR-33	4373048	000424	GUGCAUUGUAGUUGCAUUG	
hsa-miR-330	4373047	000544	GCAAAGCACAGGCCUGCAGAGA	
hsa-miR-331	4373046	000545	GCCCCUGGGCCUUAUCCUAGAA	*
hsa-miR-335	4373045	000546	UCAAGAGCAAUAACGAAAAUUGU	*
hsa-miR-337	4373044	000547	UCCAGCUCCUUAUUAUGCCUUU	
hsa-miR-338	4373043	000548	UCCAGCAUCAGAUUUUUGUUA	
hsa-miR-339	4373042	000549	UCCUGUCCUCCAGGAGCUCA	*
hsa-miR-340	4373041	000550	UCCGUCUCAGUUAUUAUAGCC	*
hsa-miR-342	4373040	000551	UCUCACACAGAAUUCGACCCGUC	*
hsa-miR-345	4373039	000552	UGCUGACUCCUAGUCCAGGGC	*
hsa-miR-346	4373038	000553	UGUCUGCCCGAUGCCUGCCUCU	
hsa-miR-34a	4373278	000425	UGGCAGUGUCUUAAGCUUGUUU	*
hsa-miR-34b	4373037	000427	UAGGCAGUGCAUUAUCUGAUUG	
hsa-miR-34c	4373036	000428	AGGCAGUGUAGUUAUCUGAUUGC	
hsa-miR-361	4373035	000554	UUUAUCAGAAUCCUCCAGGGGUAC	*
hsa-miR-365	4373194	001020	UAAUGCCCCUAAAAUCCUUUAU	*
hsa-miR-367	4373034	000555	AAUUGCACUUUAGCAAUGGUGA	
hsa-miR-368	4373033	000556	ACAUAAGAGGAAAUUCCACGUUU	
hsa-miR-369-3p	4373032	000557	AAUAUAUUAUUGUUAUCUUU	
hsa-miR-369-5p	4373195	001021	AGAUCGACCGUGUUAUUAUCCG	
hsa-miR-370	4373031	000558	GCCUGCUGGGUGGAAACCUUG	*
hsa-miR-371	4373030	000559	GUGCCGCCAUUUUUGAGUGU	
hsa-miR-372	4373029	000560	AAAGUCUGGCACAUUUGAGCGU	
hsa-miR-373#	4373279	000562	ACUCAAAAUGGGGGCGUUUCC	
hsa-miR-374	4373028	000563	UUUAUUAACAACCUUAUAGUG	*
hsa-miR-375	4373027	000564	UUUGUUCGUCGUCUCGCGUGA	*
hsa-miR-376a	4373026	000565	AUCAUAGAGGAAAUCCACGU	
hsa-miR-378	4373024	000567	CUCCUGACUCCAGGUCCUGUGU	*
hsa-miR-379	4373023	000568	UGGUAGACUAUUGGAACGUA	*
hsa-miR-380-3p	4373022	000569	UAUGUAUUAUUGUCCACAUUU	
hsa-miR-381	4373020	000571	UAUACAAGGGCAAGCUCUCUGU	

Assay Name	Part Number	AB Assay ID	Target Sequence	miRNAs expressed in at least 10% of the samples
hsa-miR-382	4373019	000572	GAAGUUGUUCGUGGUGGAUUCG	
hsa-miR-383	4373018	000573	AGAUCAGAAAGGUGAUUUGGCU	
hsa-miR-409-5p	4373197	001022	AGGUUACCCGAGCAACUUUGCA	
hsa-miR-422a	4373200	000603	CUGGACUUAGGGUCAGAAGGCC	
hsa-miR-422b	4373016	000575	CUGGACUUAGGGUCAGAAGGCC	*
hsa-miR-423	4373015	000576	AGCUCGGUCUGAGGCCCCUCAG	*
hsa-miR-424	4373201	000604	CAGCAGAAUUCUUGUUUUGAA	*
hsa-miR-425	4373202	001104	AUCGGGAAUUCGUGUCCGCC	*
hsa-miR-429	4373203	001024	UAAUACUGUCUGGUAACCCGU	
hsa-miR-432	4373280	001026	UCUUGGAGUAGGUCUUGGGUGG	*
hsa-miR-433	4373205	001028	AUCAUGAUGGGUCUCCUGGUU	
hsa-miR-449	4373207	001030	UGGCAGUGUAUUUUUAGCUGGU	
hsa-miR-450	4373208	001031	UUUUUGCGAUGUGUCCUAAUA	*
hsa-miR-451	4373209	001105	AAACCGUUACCAUUCUGAGUUU	*
hsa-miR-452	4373281	001032	UGUUUGCAGAGGAACUGAGAC	
hsa-miR-485-5p	4373212	001036	AGAGGUCGCGCCUGAUGAAUUC	
hsa-miR-489	4373214	001107	AGUGACAUCACAUUACGGCAGC	
hsa-miR-490	4373215	001037	CAACCGGAGGACUCCAUUCUG	
hsa-miR-491	4373216	001038	AGUGGGGAACCCUCCAUAGGGA	
hsa-miR-494	4373219	001041	UGAAACAUACACGGGAACCCUUU	
hsa-miR-496	4373221	001042	AUUACAUGGCCAAUUCUC	
hsa-miR-497	4373222	001043	CAGCAGCACACUGGUUUUUGU	*
hsa-miR-500	4373225	001046	AUGCACCUUGGCAAGGAUUCUG	
hsa-miR-501	4373226	001047	AAUCCUUUUGUCCUGGGUGAGA	
hsa-miR-502	4373227	001109	AUCCUUGCUAUCUGGGUGCUA	
hsa-miR-505	4373230	001049	GUCAACACUUGCUGGUUCCUC	*
hsa-miR-506	4373231	001050	UAAGGCACCCUUCUGAGUAGA	
hsa-miR-508	4373233	001052	UGAUUGUAGCCUUUUGGAGUAGA	
hsa-miR-509	4373234	001053	UGAUUGUAGCUCUGUGGGUAGA	
hsa-miR-510	4373235	001143	UACUCAGGAGAGUGGCAUACACA	
hsa-miR-511	4373236	001111	GUGUCUUUUUGUCUCGAGUCA	*
hsa-miR-512-5p	4373238	001145	CACUCAGCCUUGAGGGCACUUUC	
hsa-miR-513	4373239	001146	UUCACAGGGAGGUGUCAUUUAU	
hsa-miR-514	4373240	001147	AUUGACACUUCUGUGAGUAG	
hsa-miR-515-3p	4373241	001148	GAGUGCCUUCUUUUGGAGCGU	
hsa-miR-515-5p	4373242	001112	UUCUCCAAAAGAAGCACUUUCUG	
hsa-miR-516-3p	4373183	001149	UGCUUCCUUUCAGAGGGU	
hsa-miR-517a	4373243	001151	AUCGUGCAUCCUUUAGAGUGUU	
hsa-miR-517b	4373244	001152	UCGUGCAUCCUUUAGAGUGUU	
hsa-miR-517c	4373264	001153	AUCGUGCAUCCUUUAGAGUGU	
hsa-miR-518a	4373186	001154	AAAGCGCUUCCUUUGCUGGA	
hsa-miR-518b	4373246	001156	CAAAGCGCUCCUUUAGAGGU	
hsa-miR-518c	4373247	001157	CAAAGCGCUUCUUCUUAGAGUG	
hsa-miR-518d	4373248	001159	CAAAGCGCUUCCUUUGGAGC	
hsa-miR-518e	4373265	001160	AAAGCGCUUCCUUUCAGAGUGU	
hsa-miR-519b	4373250	001115	AAAGUGCAUCCUUUAGAGGUUU	
hsa-miR-519c	4373251	001163	AAAGUGCAUUCUUUAGAGGAU	
hsa-miR-519d	4373266	001164	CAAAGUGCCUCCUUUAGAGUGU	
hsa-miR-519e	4373267	001165	AAAGUGCCUCCUUUAGAGUGU	
hsa-miR-520a	4373268	001167	AAAGUGCUUCCUUUGGAGUGU	
hsa-miR-520b	4373252	001116	AAAGUGCUUCCUUUAGAGGG	
hsa-miR-520c	4373253	001117	AAAGUGCUUCCUUUAGAGGGUU	
hsa-miR-520d	4373254	001118	AAAGUGCUUCCUUUGGGGGUU	
hsa-miR-520e	4373255	001119	AAAGUGCUUCCUUUAGAGGG	
hsa-miR-520f	4373256	001120	AAGUGCUUCCUUUAGAGGGUU	
hsa-miR-520g	4373257	001121	ACAAAGUGCUUCCUUUAGAGUGU	
hsa-miR-520h	4373258	001170	ACAAAGUGCUUCCUUUAGAGU	
hsa-miR-521	4373259	001122	AACGCACUCCUUUAGAGUGU	
hsa-miR-522	4373245	001171	AAAAGUGUCCUUUAGAGUGUU	
hsa-miR-523	4373260	001172	AACGCUCUCCUUUAGAGGG	
hsa-miR-526a	4373261	001125	CUCUAGAGGGAAGCACUUUCU	
hsa-miR-526b	4373284	001175	CUCUAGAGGGAAGCACUUUCU	
hsa-miR-7	4373014	000386	UGGAAGACUAGUUAUUUGUUG	*
hsa-miR-9	4373285	000583	UCUUUGGUUAUCUAGCUAUGA	
hsa-miR-92	4373013	000430	UAUUGCACUUGUCCCGGCCUG	*
hsa-miR-93	4373012	000432	AAAGUGCUGUUCGUGCAGGUAG	*
hsa-miR-95	4373011	000433	UUCACCGGUAUUUUUAGAGCA	*
hsa-miR-96	4373010	000434	UUUGGCACUAGCACAUUUUUGC	*
hsa-miR-98	4373009	000577	UGAGGUAGUAAGUUGUAUUGUU	*
hsa-miR-99a	4373008	000435	AACCGUAGAUCCGAUCUUGUG	*
hsa-miR-99b	4373007	000436	CACCGUAGAACCGACCUUGCG	*

Supplementary Table 2: Q-PCR normalized data (see Patients and Methods) for miRNA included in the validation set.

ND: Non Determined

Samples	Tumors: T / Non Tumor Liver: NTL / Normal Liver: NL	Tumors characteristics	miR-107	miR-10b	miR-122a	miR-126*	miR-200c	miR-203	miR-21	miR-222	miR-224	miR-375	miR-422b	miR-96
CHC008N	NTL	Non tumor liver / cirrhotic	2.43	1.45	0.51	0.97	0.78	1.67	2.33	3.46	3.26	0.46	1.34	2.56
CHC010T	T	HCC / HBV infected	0.71	2.73	0.28	2.27	15.85	0.65	57.73	12.64	23.77	1.26	0.37	171.88
CHC012N	NTL	Non tumor liver / cirrhotic	1.33	0.60	0.49	0.39	0.11	1.86	1.71	0.80	0.80	0.04	0.72	1.32
CHC013T	T	HCC / HCV infected / b-catenin mutated	1.27	7.00	0.46	0.93	0.23	ND	4.79	2.88	24.97	0.001	0.26	1.02
CHC014T	T	HCC / HBV infected	0.09	7.08	0.03	0.19	0.05	0.00	1.27	2.26	4.12	0.47	0.05	0.19
CHC015T	T	HCC / HCV infected	1.42	3.74	0.48	0.54	1.96	1.17	8.11	9.22	6.16	0.14	1.28	4.17
CHC018T	T	HCC / HBV infected	1.44	23.04	0.10	1.15	5.27	0.48	15.95	18.93	35.84	4.79	0.01	137.09
CHC023N	NTL	Non tumor liver / non cirrhotic	2.59	2.48	1.77	3.81	0.65	4.36	6.62	1.34	2.91	0.30	1.25	5.83
CHC043T	T	HCC / HBV infected	2.06	2.06	0.01	0.25	1.24	ND	9.39	1.94	1.90	ND	0.10	14.82
CHC050T	T	HCC / alcohol intake	1.63	13.70	0.42	1.50	0.46	0.56	4.96	7.05	37.98	0.02	0.44	2.63
CHC051T	T	HCC / HCV infected / b-catenin mutated	3.03	9.95	0.52	0.92	0.26	0.06	4.03	4.58	0.99	0.00	0.11	108.04
CHC060T	T	HCC / alcohol intake	0.37	1.70	0.21	1.24	0.56	0.21	2.51	8.72	4.94	2.45	0.03	37.56
CHC072N	NTL	Non tumor liver / non cirrhotic / HCV infected	0.65	0.13	0.60	1.29	0.12	0.95	1.87	0.72	1.90	0.10	0.85	0.51
CHC072T	T	HCC / HCV infected / b-catenin mutated	0.63	1.04	0.13	0.55	0.11	0.05	43.08	1.11	1.48	0.01	0.10	22.21
CHC081T	T	HCC / HBV infected	0.95	6.52	0.08	0.21	0.04	0.30	1.57	1.26	4.31	0.01	0.06	86.34
CHC098T	T	HCC / alcohol intake	0.71	1.94	0.18	0.3	0.04	0.12	2.77	1.10	7.70	0.06	0.24	6.75
CHC1124T	T	HCA / b-catenin mutated	1.34	3.21	0.18	1.05	0.12	0.15	8.32	0.77	1.32	0.00	0.15	4.12
CHC123N	NTL	Non tumor liver / non cirrhotic	ND	17.67	4.54	0.02	1.11	ND	ND	ND	ND	0.15	3.79	5.77
CHC141T	T	HCC	0.44	3.61	0.09	0.95	0.05	0.14	3.37	0.70	6.03	4.85	0.10	3.61
CHC155N	NTL	Non tumor liver / cirrhotic / alcohol intake	1.29	3.39	0.31	0.39	0.45	1.67	1.98	1.71	2.36	0.62	0.48	11.01
CHC155T	T	HCC / alcohol intake	0.23	4.82	0.05	0.36	0.01	0.09	0.56	0.29	0.80	0.01	0.08	3.38
CHC195T	T	HCC / alcohol intake	0.24	0.44	0.05	0.41	0.08	0.11	1.22	0.56	4.28	0.05	0.20	1.39
CHC197T	T	HCC / alcohol intake / b-catenin mutated	1.55	5.08	0.39	ND	0.27	1.06	11.37	2.46	166.88	0.00	0.14	3.95
CHC199T	T	HCC / alcohol intake	0.27	11.98	0.17	0.82	0.14	ND	2.11	0.57	1.66	0.00	0.22	14.16
CHC203N	NTL	Non tumor liver / cirrhotic / alcohol intake	2.27	1.86	0.16	1.99	1.71	4.97	4.84	7.07	5.57	0.80	0.25	2.18
CHC203T	T	HCC / alcohol intake	0.30	2.94	0.09	ND	0.29	0.20	11.36	3.01	37.93	0.62	0.55	90.26
CHC204T	T	HCC / HBV infected	2.82	58.46	1.00	0.58	2.99	4.80	15.95	16.28	129.77	0.06	0.26	501.38
CHC205N	NTL	Non tumor liver / non cirrhotic / alcohol intake	0.79	0.11	0.24	0.33	ND	0.50	0.35	0.60	0.31	0.07	0.58	0.31
CHC205T	T	HCC / alcohol intake	0.11	0.50	0.11	0.24	0.01	0.04	3.51	2.00	5.41	0.01	0.16	0.31
CHC217N	NTL	Non tumor liver / non cirrhotic / alcohol intake	1.92	1.57	0.38	0.49	0.29	0.62	0.53	0.44	0.25	0.10	1.06	1.55
CHC217T	T	HCC / alcohol intake / b-catenin mutated	1.05	37.71	0.58	0.35	0.46	0.64	44.39	3.63	12.16	0.02	0.72	143.64
CHC226T	T	HCC / HBV infected	0.91	3.76	0.41	0.54	1.34	0.85	35.92	6.87	88.87	0.05	0.19	227.90
CHC228T	T	HCC	2.69	19.37	0.04	2.69	1.98	3.54	43.46	13.31	45.62	11.16	0.25	119.47
CHC231N	NTL	Non tumor liver / cirrhotic / alcohol intake	0.91	0.10	0.43	0.29	0.58	0.48	0.67	1.41	1.06	0.25	0.65	1.44
CHC231T	T	HCC / alcohol intake	0.41	2.13	0.22	0.18	0.03	0.14	4.93	0.75	5.61	0.05	0.27	2.63
CHC235T	T	HCC / HCV infected	0.71	1.47	0.03	1.42	0.64	0.54	4.68	7.04	17.57	0.08	0.04	2.65
CHC237N	NTL	Non tumor liver / non cirrhotic	0.61	0.17	0.30	0.50	0.30	0.33	0.51	0.64	0.27	0.07	0.89	0.51
CHC237T	T	HCC / HBV infected	0.63	15.13	0.23	1.08	15.66	4.56	13.32	5.90	42.94	0.77	0.16	58.26
CHC239T	T	HCC / HBV infected	0.81	0.78	0.20	0.09	0.19	0.52	4.15	4.60	17.47	4.12	0.05	330.49
CHC241T	T	HCC / HBV infected	0.30	12.73	0.10	1.47	0.15	0.38	10.98	4.41	33.20	0.02	0.31	12.98
CHC242T	T	HCC / b-catenin mutated	0.67	20.19	0.42	1.18	0.33	0.56	2.47	6.06	6.66	0.03	0.18	1.82
CHC245T	T	HCC / HBV infected	0.16	92.97	0.07	0.71	3.01	0.31	21.38	2.48	0.01	0.12	0.25	75.65
CHC252T	T	HCC / HBV infected / HCV infected	2.74	14.61	0.59	1.76	32.71	1.03	18.05	18.26	54.69	6.12	0.32	121.98
CHC254T	T	HCC / HBV infected / HCV infected	0.50	2.90	0.02	0.19	0.08	0.65	2.50	2.12	7.98	0.00	0.17	4.16
CHC301T	T	HCC / b-catenin mutated	1.26	5.18	0.23	1.01	0.03	0.01	6.97	2.41	4.77	0.00	0.09	6.60
CHC302N	NTL	Non tumor liver / non cirrhotic / HCV infected	0.46	0.19	0.18	0.25	0.15	0.38	0.85	0.30	0.27	0.93	0.35	1.32
CHC302T	T	HCC / HCV infected / b-catenin mutated	0.25	9.80	0.22	1.08	1.70	0.10	5.54	1.39	1.69	0.01	0.21	17.52
CHC304T	T	HCC / alcohol intake	2.25	4.63	0.02	1.15	0.07	0.07	3.06	4.54	12.18	0.01	0.21	0.11
CHC305N	NTL	Non tumor liver / cirrhotic / HCV infected	1.13	0.37	ND	0.20	0.28	0.75	2.18	1.94	3.73	0.11	0.35	1.35
CHC305T	T	HCC / HCV infected / b-catenin mutated	3.50	5.07	1.14	0.68	0.68	0.03	4.42	6.27	29.87	0.01	0.31	0.52
CHC313T	T	HCC / HCV infected	0.60	0.35	0.24	2.10	0.04	0.20	4.41	1.27	21.12	0.03	0.26	5.07
CHC322T	T	HCC / alcohol intake	0.29	0.34	0.06	0.13	0.05	0.20	7.77	2.11	7.71	0.04	0.06	3.44
CHC326N	NTL	Non tumor liver / cirrhotic	2.41	11.08	0.61	0.26	4.45	4.12	15.40	2.88	ND	1.28	1.22	10.45
CHC326T	T	HCC / HBV infected	0.20	1.73	0.08	0.44	0.14	0.97	4.41	1.93	0.17	0.03	0.26	15.22
CHC327N	NTL	Non tumor liver / cirrhotic / HCV infected	0.43	1.66	ND	0.59	0.18	0.58	2.03	0.79	0.76	0.22	0.19	1.07
CHC327T	T	HCC / HCV infected	0.85	3.20	0.08	0.72	0.75	0.56	4.24	2.65	2.90	0.01	0.20	5.08
CHC339T	T	HCC / HBV infected	0.20	10.43	0.29	0.85	0.12	0.17	6.30	4.20	30.50	0.38	0.03	21.50
CHC340T	T	HCA / HNF1a mutated	ND	2.27	0.48	0.09	0.13	0.08	1.60	1.46	6.95	0.19	0.18	1.88
CHC344T	T	Inflammatory HCA	0.49	0.30	0.09	0.41	0.03	0.35	7.24	3.84	2.90	0.03	0.11	4.64
CHC347T	T	FNH	0.39	2.13	0.16	0.84	0.08	0.04	2.51	3.04	3.51	0.05	0.46	0.81
CHC353T	T	HCA	1.62	1.53	1.03	2.32	0.06	0.53	4.80	1.22	0.86	0.32	0.89	3.96
CHC358T	T	HCA / HNF1a mutated	0.15	0.40	0.23	0.49	0.05	0.03	0.45	1.06	0.73	0.12	1.19	0.50
CHC372T	T	HCA / b-catenin mutated	0.38	0.04	0.36	0.34	0.02	0.01	2.59	1.01	4.17	0.00	0.08	0.17
CHC373T	T	HCA / HNF1a mutated	0.12	1.21	0.06	1.24	0.00	0.03	1.12	0.27	2.89	0.09	0.16	1.60
CHC376T	T	HCA / b-catenin mutated	0.90	0.49	0.67	1.11	0.16	0.01	6.21	2.01	6.52	0.00	0.56	4.01

Samples	Tumors: T ;	Tumors characteristics	miR-107	miR-10b	miR-122a	miR-126*	miR-200c	miR-203	miR-21	miR-222	miR-224	miR-375	miR-422b	miR-96
	Non Tumor Liver: NTL : Normal Liver: NL													
CHC378T	T	Inflammatory HCA	0.72	6.47	0.53	1.19	0.32	0.32	11.68	1.07	19.06	0.29	0.50	4.35
CHC383T	T	HCA / HNF1a mutated	0.12	0.45	0.41	0.33	0.16	0.03	1.12	0.38	3.80	0.82	1.11	2.00
CHC385T	T	HCA / HNF1a mutated	0.31	0.04	0.25	0.17	0.11	0.01	0.09	0.27	2.57	0.11	0.60	0.13
CHC399T	T	HCC / b-catenin mutated	0.03	14.48	0.03	0.85	0.18	0.16	2.77	2.54	9.28	0.02	0.25	24.66
CHC402T	T	HCC / HBV infected / HCV infected	0.23	19.19	0.01	1.08	0.31	0.74	5.23	10.41	7.53	0.11	0.18	50.68
CHC429T	T	HCC / b-catenin mutated	2.43	3.73	0.82	0.59	1.34	0.02	5.18	15.26	14.77	0.04	0.20	0.10
CHC430N	NTL	Non tumor liver / cirrhotic / HCV infected	3.57	0.23	0.46	1.04	2.52	3.49	ND	7.14	ND	1.10	0.40	9.57
CHC430T	T	HCC / HCV infected	0.26	0.69	0.11	0.78	0.10	0.06	5.06	1.60	10.68	0.00	0.44	0.92
CHC433T	T	HCC / alcohol intake / b-catenin mutated	0.83	8.88	0.40	0.30	0.06	0.11	1.11	2.45	21.20	0.00	0.42	1.36
CHC434T	T	HCC / alcohol intake / b-catenin mutated	3.06	19.44	1.15	ND	0.70	0.15	14.76	4.77	35.11	0.01	0.21	2.05
CHC437T	T	HCC / alcohol intake / b-catenin mutated	0.55	2.82	0.30	0.42	0.09	1.03	4.18	2.21	0.63	0.04	0.59	16.22
CHC438T	T	HCC	0.08	19.97	0.19	0.94	0.05	0.01	1.95	1.01	7.15	0.03	0.27	0.35
CHC461T	T	HCA / HNF1a mutated	0.26	0.36	0.22	0.71	0.05	0.05	0.37	0.24	0.43	0.05	1.01	2.16
CHC466T	T	Inflammatory HCA	0.38	2.64	0.22	1.05	0.07	0.49	5.34	0.68	6.73	0.10	0.25	4.38
CHC470T	T	HCA / b-catenin mutated	0.45	10.09	0.99	0.66	0.56	0.03	4.38	1.57	6.13	0.01	0.09	2.91
CHC471T	T	Inflammatory HCA	0.46	0.94	0.31	1.02	0.12	0.34	5.76	0.67	4.09	0.06	0.21	1.05
CHC517T	T	HCA / b-catenin mutated	0.66	17.18	0.30	4.06	0.39	0.20	6.99	2.79	2.85	0.06	0.67	1.23
CHC543T	T	HCA / b-catenin mutated	1.04	4.80	0.47	0.23	0.35	0.00	1.76	2.87	3.59	0.01	0.18	0.19
CHC561T	T	FNH	0.76	0.11	0.16	0.29	0.06	0.04	1.61	1.04	4.19	0.06	0.32	0.11
CHC574T	T	Inflammatory HCA / alcohol intake	0.24	13.52	0.08	1.09	0.06	0.61	2.87	1.58	13.16	0.01	0.13	3.89
CHC576T	T	HCA / HNF1a mutated	0.08	0.58	0.07	0.29	0.02	0.01	0.18	0.33	0.26	0.03	0.75	0.48
CHC595T	T	FNH	0.23	0.65	0.49	0.54	0.09	0.27	0.93	0.85	0.35	0.06	0.86	0.12
CHC603T	T	HCA	0.51	0.87	0.39	0.62	0.04	0.50	3.84	0.76	1.63	0.06	1.88	3.14
CHC607T	T	FNH	0.44	0.42	0.20	0.26	0.03	0.07	1.13	1.39	1.84	0.05	0.35	0.10
CHC635T	T	HCA / HNF1a mutated	0.43	1.32	0.65	1.13	0.09	0.04	1.37	0.91	8.66	0.24	1.47	3.02
CHC666T	T	FNH	0.49	0.43	0.24	0.0001	0.04	0.07	1.37	0.58	1.51	0.04	0.17	1.14
CHC678T	T	HCA / b-catenin mutated	1.99	0.03	0.42	0.35	0.00	0.02	0.45	2.71	0.49	0.001	0.44	0.21
CHC700T	T	HCA / b-catenin mutated	0.65	2.97	0.25	0.56	0.02	0.23	4.78	5.29	0.84	0.00	0.10	0.86
CHC786T	T	HCA / b-catenin mutated	0.55	3.92	0.39	1.59	0.04	0.03	3.25	1.35	5.55	0.0001	0.26	0.72
CHC867T	T	Inflammatory HCA	0.32	0.47	0.08	1.05	0.01	0.02	1.29	0.44	4.53	0.06	0.21	0.08
CHC931N	NL	Normal liver	1.60	2.17	2.28	0.79	0.37	1.29	0.89	0.97	0.02	0.61	1.40	0.24
CHC932N	NL	Normal liver	1.17	0.74	0.86	2.04	0.95	1.35	1.20	2.16	0.50	1.96	1.03	1.00
CHC934N	NL	Normal liver	0.38	0.58	0.28	0.59	1.31	0.55	0.89	0.45	0.24	0.67	0.57	1.06
CHC941N	NL	Normal liver	0.85	0.51	0.57	0.57	1.38	0.81	1.02	0.41	3.25	0.77	1.00	1.70
CHC008T	T	HCC / HBV infected	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.48
CHC114T	T	HCC / alcohol intake	ND	ND	ND	0.36	ND	ND	ND	ND	ND	ND	ND	ND
CHC121T	T	HCC / alcohol intake / b-catenin mutated	ND	ND	ND	0.44	ND	ND	ND	ND	ND	0.01	ND	ND
CHC137T	T	HCC / HBV infected	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	76.35
CHC190T	T	HCC / alcohol intake	ND	ND	ND	0.40	ND	ND	ND	ND	ND	ND	ND	ND
CHC191T	T	HCC / alcohol intake	ND	ND	ND	0.44	ND	ND	ND	ND	ND	ND	ND	ND
CHC763T	T	HCA / HNF1a mutated	0.15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHC764T	T	HCA / HNF1a mutated	0.20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHC868T	T	HCA / HNF1a mutated	0.33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHC869T	T	HCA / HNF1a mutated	0.29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Additional samples

Supplementary Table 3: miRNAs differentially expressed according to features important for unsupervised analysis

Benign Tumors

β-catenin mutated HCs vs non mutated HCs		
miRNAs	fold change	t-test <i>P</i>
hsa-miR-127	-2.62	0.01
hsa-miR-199a	-2.68	0.04
hsa-miR-214	-3.03	0.01
hsa-miR-370	-3.49	0.01
hsa-miR-375	-7.92	0.04

Inflammatory HCs HCCs vs others HCs		
miRNAs	fold change	t-test <i>P</i>
hsa-let-7i	3.44	0.03
hsa-miR-126#	2.86	0.003
hsa-miR-127	4.18	0.01
hsa-miR-214	5.16	0.04
hsa-miR-23a	4.17	0.04
hsa-miR-365	-2.51	0.02
hsa-miR-497	3.13	0.02
hsa-miR-511	3.84	0.04

Pooled list of miRNAs for supervised clustering in HCA
hsa-let-7a
hsa-let-7b
hsa-let-7i
hsa-miR-103
hsa-miR-107
hsa-miR-126#
hsa-miR-127
hsa-miR-130b
hsa-miR-190
hsa-miR-192
hsa-miR-193a
hsa-miR-199a
hsa-miR-21
hsa-miR-214
hsa-miR-215
hsa-miR-221
hsa-miR-222
hsa-miR-23a
hsa-miR-30e-5p
hsa-miR-320
hsa-miR-34a
hsa-miR-365
hsa-miR-370
hsa-miR-375
hsa-miR-378
hsa-miR-422b
hsa-miR-497
hsa-miR-511
hsa-miR-95

HNF1α mutated HCs vs non mutated HCs		
miRNAs	fold change	t-test <i>P</i>
hsa-miR-378	2.79	0.02
hsa-miR-422b	4.18	0.01
hsa-miR-107	-4.28	0.02
hsa-miR-192	-2.71	0.005
hsa-let-7a	-2.04	0.02
hsa-miR-190	-3.75	0.01
hsa-miR-21	-8.61	0.01
hsa-miR-320	-2.19	0.01
hsa-miR-215	-27.11	0.04
hsa-let-7b	-2.93	0.01
hsa-miR-222	-3.74	0.03
hsa-miR-34a	-4.5	0.005
hsa-miR-103	-2.39	0.03
hsa-miR-221	-5.11	0.03
hsa-miR-30e-5p	-2.62	0.03

Focal Nodular Hyperplasia vs HCs		
miRNAs	fold change	t-test <i>P</i>
hsa-miR-130b	2.98	0.02
hsa-miR-193a	2.12	0.03
hsa-miR-95	5.03	0.03

HCCs

β-catenin mutated HCCs vs non mutated HCCs		
miRNAs	fold change	t-test <i>P</i>
hsa-let-7d	-4.96	0.03
hsa-let-7i	-3.37	0.03
hsa-miR-103	-3.42	0.03
hsa-miR-127	-13.62	0.02
hsa-miR-130a	-3.92	0.01
hsa-miR-146a	-6.06	0.03
hsa-miR-150	-5.72	0.03
hsa-miR-181b	-7.11	0.01
hsa-miR-182	-6.20	0.02
hsa-miR-18a	-6.17	0.03
hsa-miR-193b	3.70	0.01
hsa-miR-199a	-38.94	0.04
hsa-miR-214	-13.88	0.02
hsa-miR-223	-5.25	0.02
hsa-miR-23a	-3.98	0.02
hsa-miR-31	-5.67	0.01
hsa-miR-370	-5.78	0.01
hsa-miR-375	-79.9	0.02
hsa-miR-379	-16.17	0.03
hsa-miR-96	-5.37	0.02
hsa-miR-99b	-4.98	0.05
hsa-let-7f	-2.91	0.02
hsa-miR-10a	-2.89	0.04
hsa-miR-342	-2.82	0.02
hsa-miR-19a	-2.78	0.03
hsa-miR-20b	-2.42	0.01

Alcohol related HCCs vs others HCCs		
miRNAs	fold change	t-test <i>P</i>
hsa-miR-106a	-2.91	0.01
hsa-miR-10b	-4.11	0.01
hsa-miR-126#	-3.59	0.002
hsa-miR-155	-3.2	0.05
hsa-miR-17-5p	-2.76	0.02
hsa-miR-186	-2.54	0.03
hsa-miR-195	-6.79	0.02
hsa-miR-19b	-3.34	0.04
hsa-miR-29a	-2.46	0.03
hsa-miR-29b	-4.43	0.02
hsa-miR-29c	-12.76	0.04
hsa-miR-30a-3p	-2.46	0.05
hsa-miR-30b	-3.68	0.03
hsa-miR-30c	-5.12	0.05
hsa-miR-30d	-19.37	0.02
hsa-miR-30e-5p	-9.07	0.04
hsa-miR-335	-2.24	0.04
hsa-miR-339	-4.62	0.02
hsa-miR-374	-2.08	0.05

Pooled list of miRNAs for supervised clustering in HCC
hsa-let-7a
hsa-let-7d
hsa-let-7f
hsa-let-7i
hsa-miR-103
hsa-miR-106a
hsa-miR-10a
hsa-miR-10b
hsa-miR-126#
hsa-miR-127
hsa-miR-130a
hsa-miR-142-3p
hsa-miR-142-5p
hsa-miR-146a
hsa-miR-150
hsa-miR-155
hsa-miR-17-5p
hsa-miR-181b
hsa-miR-182
hsa-miR-186
hsa-miR-18a
hsa-miR-193b
hsa-miR-195
hsa-miR-199a
hsa-miR-19a
hsa-miR-19b
hsa-miR-20b
hsa-miR-214
hsa-miR-223
hsa-miR-23a
hsa-miR-28
hsa-miR-29a
hsa-miR-29b
hsa-miR-29c
hsa-miR-301
hsa-miR-30a-3p
hsa-miR-30b
hsa-miR-30c
hsa-miR-30d
hsa-miR-30e-5p
hsa-miR-31
hsa-miR-331
hsa-miR-335
hsa-miR-339
hsa-miR-340
hsa-miR-342
hsa-miR-370
hsa-miR-374
hsa-miR-375
hsa-miR-379
hsa-miR-450
hsa-miR-7
hsa-miR-96
hsa-miR-98
hsa-miR-99b

HBV infected HCCs vs non infected HCCs		
miRNAs	fold change	t-test <i>P</i>
hsa-let-7a	3.04	0.03
hsa-let-7f	4.31	0.03
hsa-miR-130a	3.87	0.04
hsa-miR-142-3p	6.97	0.05
hsa-miR-142-5p	8.26	0.05
hsa-miR-150	7.92	0.04
hsa-miR-17-5p	3.37	0.05
hsa-miR-182	5.48	0.03
hsa-miR-18a	12.99	0.02
hsa-miR-19a	3.71	0.05
hsa-miR-19b	3.2	0.02
hsa-miR-223	7.75	0.02
hsa-miR-23a	3.84	0.04
hsa-miR-28	2.44	0.01
hsa-miR-301	5.64	0.01
hsa-miR-331	3.6	0.01
hsa-miR-340	2.82	0.05
hsa-miR-342	3.51	0.03
hsa-miR-450	5.93	0.04
hsa-miR-7	7.47	0.01
hsa-miR-96	5.72	0.02
hsa-miR-98	4.63	0.04

Supplementary Table 4: miRNAs the most significantly deregulated in hepatocellular tumor

(HCA: Hepatocellular Adenomas / HCC: Hepatocellular Carcinomas / NTL Non Tumor Liver)

Tumors vs Non Tumor Liver				
miRNAs	First Set			Validation set
	fold change	t-test <i>P</i>	Mann-Whitney <i>P</i>	Mann-Whitney <i>P</i>
hsa-miR-21	6.38	0.001	0.03	0.003
hsa-miR-224	11.56	0.00001	0.008	0.002
hsa-miR-122a	-3.36	0.06	0.01	0.05
hsa-miR-422b	-3.36	0.02	0.01	0.004

Benign tumors vs Non Tumor Liver				
miRNAs	First Set			Validation set
	fold change	t-test <i>P</i>	Mann-Whitney <i>P</i>	Mann-Whitney <i>P</i>
hsa-miR-122a	-3.36	0.0001	0.03	non significant
hsa-miR-200c	-8.6	0.03	0.003	0.0002
hsa-miR-203	-8.47	0.02	0.003	0.0002
hsa-miR-224	4.16	0.03	0.04	0.02
hsa-miR-199b	-7.1	0.02	0.003	non significant
hsa-miR-23a	-3.06	0.04	0.02	non tested
hsa-miR-26a	-3.15	0.01	0.01	non tested

HCC vs Non Tumor Liver				
miRNAs	First Set			Validation set
	fold change	t-test <i>P</i>	Mann-Whitney <i>P</i>	Mann-Whitney <i>P</i>
hsa-miR-122a	-3.36	0.001	0.01	0.04
hsa-miR-422b	-4.7	0.02	0.002	0.001
hsa-miR-21	8.88	0.004	0.01	0.001
hsa-miR-224	16.31	0.00002	0.005	0.002
hsa-miR-10b	11.32	0.005	0.04	0.002
hsa-miR-222	5.62	0.0003	0.02	0.03

HCC vs benign tumors					
miRNAs	First Set				Validation set
	fold change	t-test <i>P</i>	Mann-Whitney <i>P</i>	Mann-Whitney <i>P</i> vs NTL	Mann-Whitney <i>P</i>
hsa-miR-224	3.93	0.0004	0.0002	0.01	0.0001
hsa-miR-203	4.77	0.03	0.02	0.01	0.02
hsa-miR-21	3.56	0.02	0.004	0.03	0.04
hsa-miR-106a	3	0.02	0.01	0.05	non tested

HNF1 α mutated HCAs vs Non mutated HCAs					
miRNAs	First Set				Validation set
	fold change	t-test <i>P</i>	Mann-Whitney <i>P</i>	Mann-Whitney <i>P</i> vs NTL	Mann-Whitney <i>P</i>
hsa-miR-107	-4.28	0.02	0.01	0.03	0.003
hsa-miR-190	-3.75	0.01	0.01	0.03	non significant

β -cat mutated HCAs vs Non mutated HCAs					
miRNAs	First Set				Validation set
	fold change	t-test <i>P</i>	Mann-Whitney <i>P</i>	Mann-Whitney <i>P</i> vs NTL	Mann-Whitney <i>P</i>
hsa-miR-375	-7.92	0.04	0.002	0.02	0.02

HBV infected HCCs vs non infected HCCs					
miRNAs	First Set				Validation set
	fold change	t-test <i>P</i>	Mann-Whitney <i>P</i>	Mann-Whitney <i>P</i> vs NTL	Mann-Whitney <i>P</i>
hsa-miR-96	5.72	0.02	0.007	0.03	0.04
hsa-miR-182	5.48	0.03	0.009	0.03	non significant
hsa-miR-301	5.64	0.008	0.0004	0.003	non significant
hsa-miR-331	3.6	0.01	0.004	0.03	non significant

HCC related to Alcohol consumption vs Other HCCs					
miRNAs	First Set				Validation set
	fold change	t-test <i>P</i>	Mann-Whitney <i>P</i>	Mann-Whitney <i>P</i> vs NTL	Mann-Whitney <i>P</i>
hsa-miR-126*	-3.59	0.002	0.001	0.02	0.008
hsa-miR-195	-6.79	0.02	0.002	0.003	ns
hsa-miR-30d	-19.37	0.02	0.04	0.003	ns
hsa-miR-19b	-3.34	0.04	0.01	0.006	non tested
hsa-miR-29c	-12.76	0.04	0.01	0.01	non tested
hsa-miR-339	-4.62	0.02	0.03	0.03	non tested

β -catenin mutated HCCs vs non mutated HCCs					
miRNAs	First Set				Validation set
	fold change	t-test <i>P</i>	Mann-Whitney <i>P</i>	Mann-Whitney <i>P</i> vs NTL	Mann-Whitney <i>P</i>
hsa-miR-375	-79.9	0.02	0.02	0.006	0.04
hsa-miR-127	-13.62	0.02	0.02	0.01	non significant
hsa-miR-379	-16.17	0.03	0.03	0.006	non significant

