

Table S1 MiRNAs differentially expressed in the HepG2 cells before and after paclitaxel therapy.

miRNA Name	Chromosome location	Fold-change	Average FDR
<b>Down-regulated</b>			
hsa-miR-3675-5p	1p36.13	-5.57	0.03203
hsa-miR-1246	2q31.1	-4.82	1.43E-08
hsa-let-7b	22q13.3	-3.34	0.00036
hsa-miR-185*	22q11.21	-3.25	0.04955
hsa-miR-1290	1p36.13	-3.22	0.00068
hsa-miR-593	7q32.1	-2.77	0.01291
hsa-miR-1255b	5p13.1	-2.46	0.02964
hsa-miR-194	1q41	-2.31	0.03725
hsa-miR-1225-3p	16p13.3	-2.30	0.04232
hsa-miR-1268	15q11.2	-2.26	0.02151
hsa-miR-9	11q13.1	-2.18	0.04575
hsa-miR-548j	22q12.1	-2.16	0.04473
hsa-miR-624*	14q12	-2.11	0.03143
<b>Up-regulated</b>			
hsa-miR-877	6p21.33	4.61	1.93E-05
hsa-miR-374a	Xq13.2	4.24	0.00238
hsa-miR-1260	14q24.3	3.58	0.00029
hsa-miR-1253	17p13.3	3.42	0.02161
hsa-miR-183*	7q32.2	3.36	8.86E-05
hsa-miR-301a	17q22	3.34	0.00771
hsa-miR-508-5p	9q22.31	3.16	0.01827
hsa-miR-491-3p	Xq27.3	3.14	0.00274
hsa-miR-4291	9p23.1	3.19	0.00639
hsa-miR-1260b	11q21	3.09	0.00051
hsa-miR-509-5p	Xq27.3	2.99	0.00573
hsa-miR-2054	4q28.1	2.95	0.0383
hsa-miR-1280	3q21.3	2.90	1.25E-06
hsa-miR-20b	13q31.3	2.83	0.00017
hsa-miR-19b	13q31.3	2.79	8.77E-05
hsa-miR-21	17q22	2.79	5.54E-06
hsa-miR-221*	Xp11.3	2.73	0.03331
hsa-miR-210	11p15.1	2.72	0.00015
hsa-miR-20a	13q31.3	2.70	0.00069
hsa-miR-101	1p31.3	2.63	0.00458
hsa-miR-19a	13q31.3	2.58	0.00029
hsa-miR-1274a	5p13.1	2.49	0.00107
hsa-miR-451	Xp22.12	2.46	0.00395
hsa-miR-23c	5p13.1	2.46	0.00254
hsa-miR-492	12q22	2.41	0.03395
hsa-miR-106a	Xq26.2	2.38	0.00352
hsa-miR-3135	3p24.3	2.36	0.04551
hsa-miR-548p	6q12.2	2.25	0.02413
hsa-miR-206	5p21.1	2.25	0.04346
hsa-miR-100	11q24.1	2.21	0.00080
hsa-miR-3659	1p34.3	2.21	0.03806
hsa-miR-3646	10q23.3	2.20	0.00566
hsa-miR-107	13q31.3	2.20	0.00778
hsa-miR-17	20q13.12	2.20	0.00249
hsa-let-7f-1*	9q22.33	2.12	0.00061
hsa-miR-27b	19p13.13	2.11	0.00833
hsa-miR-24-2*	9q22.32	2.11	0.00126
hsa-miR-4289	9q22.32	2.05	0.00403
hsa-let-7f	9q22.1	2.05	4.98E-05
hsa-miR-18b	Xq26.2	2.03	0.00352
hsa-miR-208a	14q11.2	2.02	0.04378

Note: All experiments were performed in quadruplicate. A P-value <0.05 was considered statically significant.

Table S2 IPA Network analysis.

Network	Molecules in Network	Focus Molecules	Top Functions
1	let-7, let-7a/let-7f/let-7c, let-7f-1*/let-7b*/let-7a*, mir-24, mir-99, miR-194, mir-194, miR-451, miR-492, mir-548, miR-1290, miR-100/miR-99a/miR-99b, miR-19b/miR-19a, miR-208b/miR-208b-3p/miR-208, miR-23b/miR-23a/miR-23c, miR-210, miR-548p, miR-548h/miR-548i/miR-548d-5p, miR-24-1*/miR-24-2*,	14	Inflammatory Disease, Renal Nephritis, Renal and Urological Disease
2	miR-9, mir-9, mir-101, mir-103, mir-221, miR-1/miR-206/miR-1a, miR-101/miR-101a/miR-101b, miR-103/miR-103a/miR-107, miR-130a/miR-130b/miR-301a, miR-18a/miR-18b/miR-4735-3p, miR-19b/miR-19a, miR-20a/miR-106b/miR-17-5p, miR-21/miR-590-5p, miR-210, miR-221*, miR-27b/miR-27a	12	Reproductive System Disease, Connective Tissue Disorders, Genetic Disorder
3	mir-1225, miR-1225-3p, mir-183, miR-183*, mir-185, miR-185*, mir-491, miR-491-3p/miR-491*	4	Cancer, Reproductive System Disease, Skeletal and Muscular Disorders and Cell Death
4	mir-506, miR-509-5p/miR-4418/miR-509-3-5p, miR-509-5p/miR-508-5p	2	Cellular Assembly and Organization, Genetic Disorder, Neurological Disease

The top four networks and their functions are shown with the associated miRNAs.