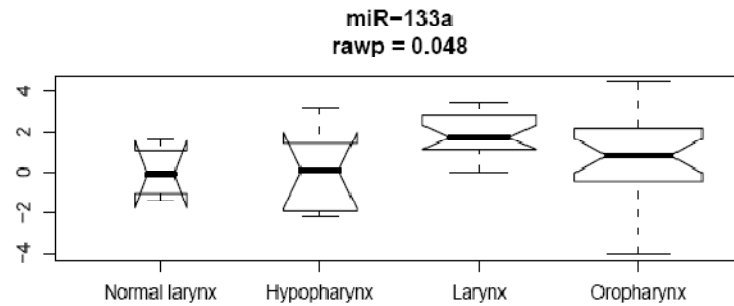
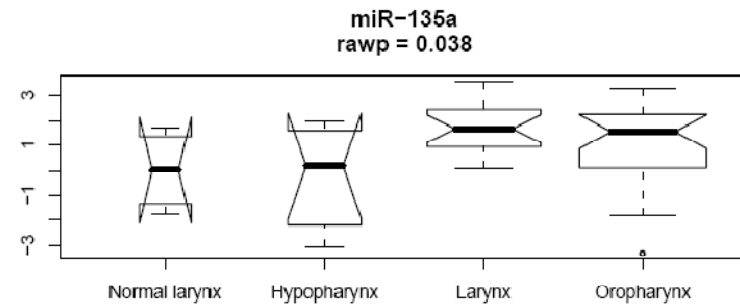
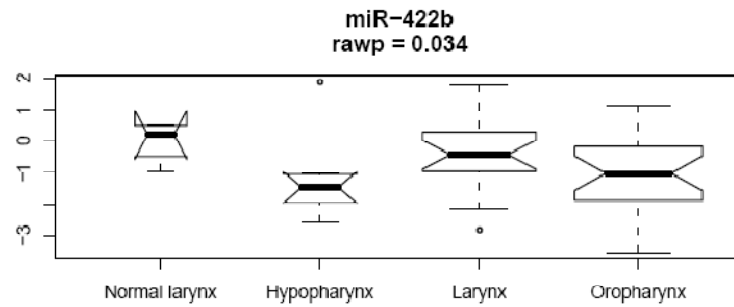
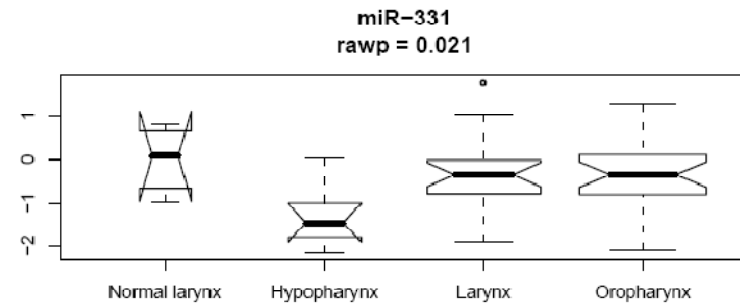
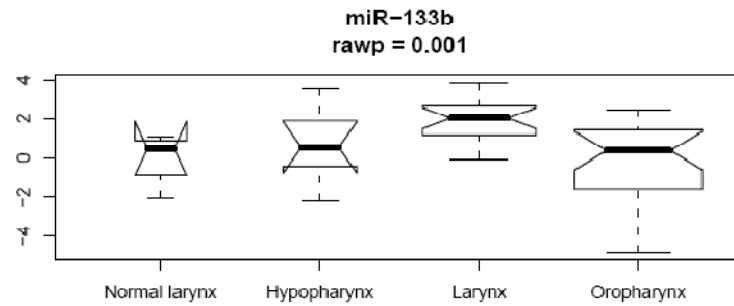
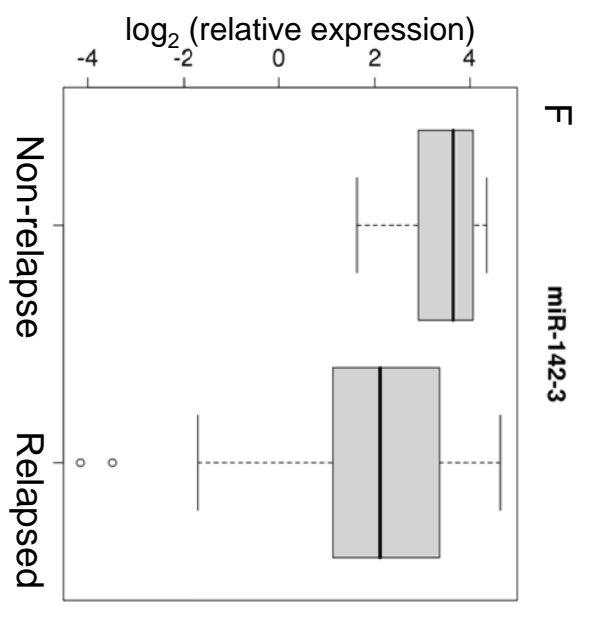
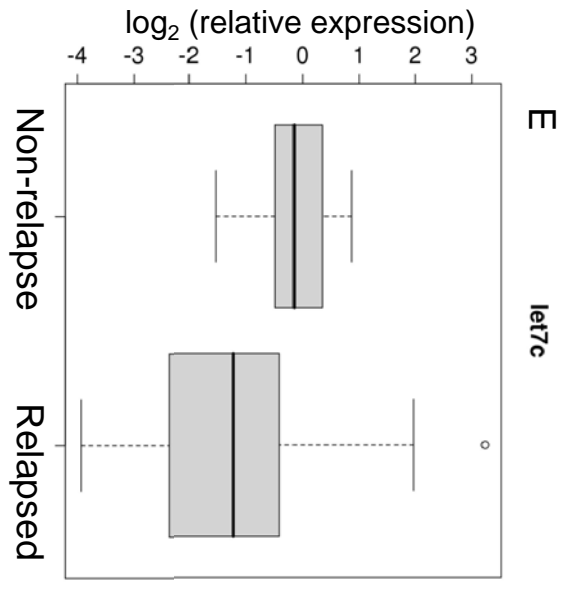
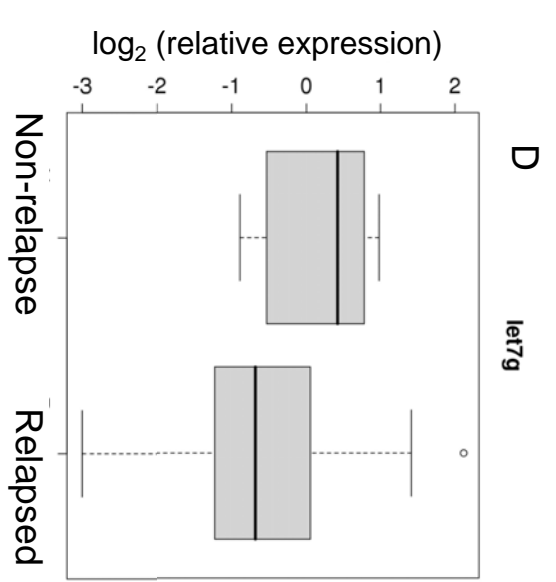
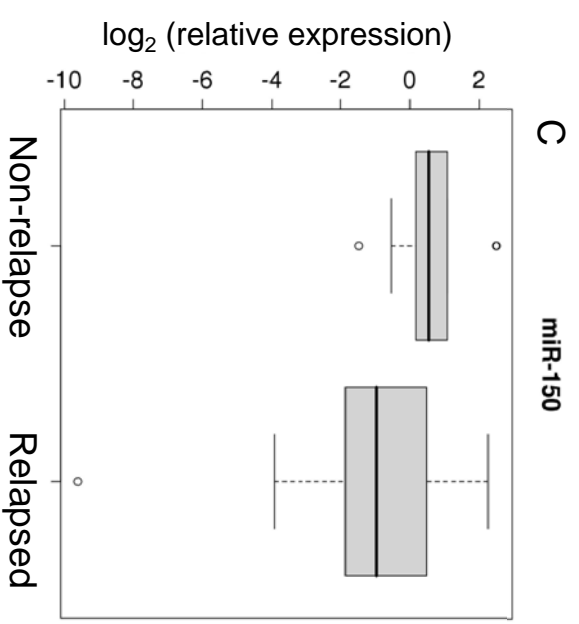
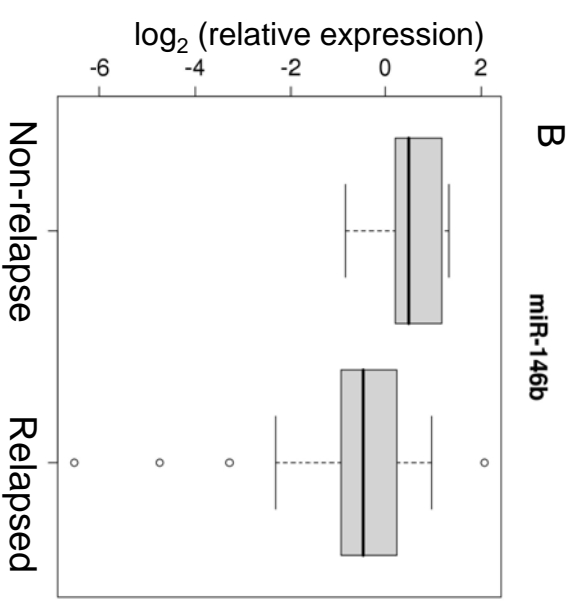
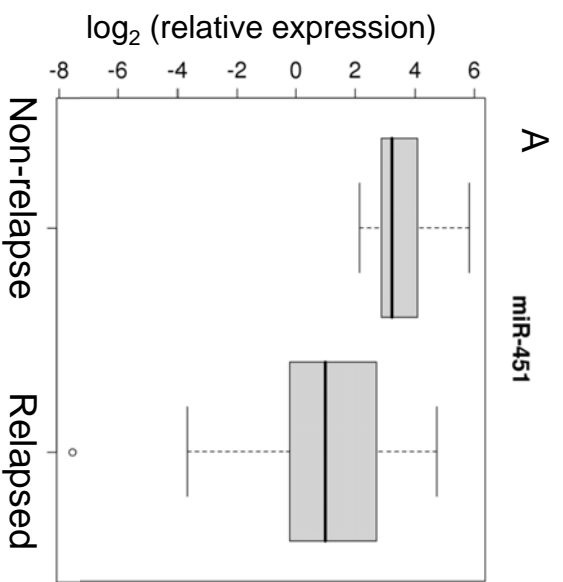


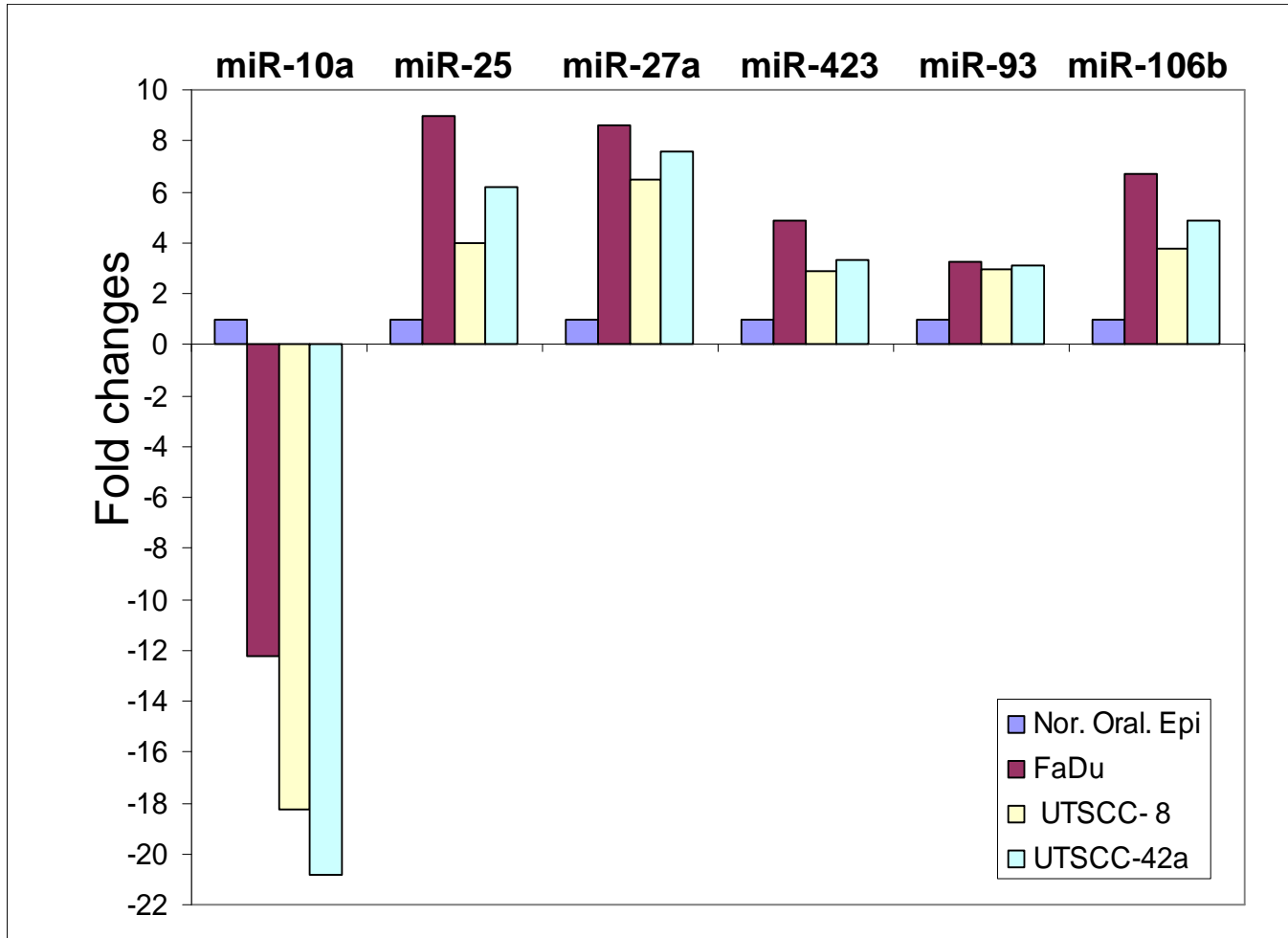
SUPPLEMENTARY FIGURE 1



SUPPLEMENTARY FIGURE 2

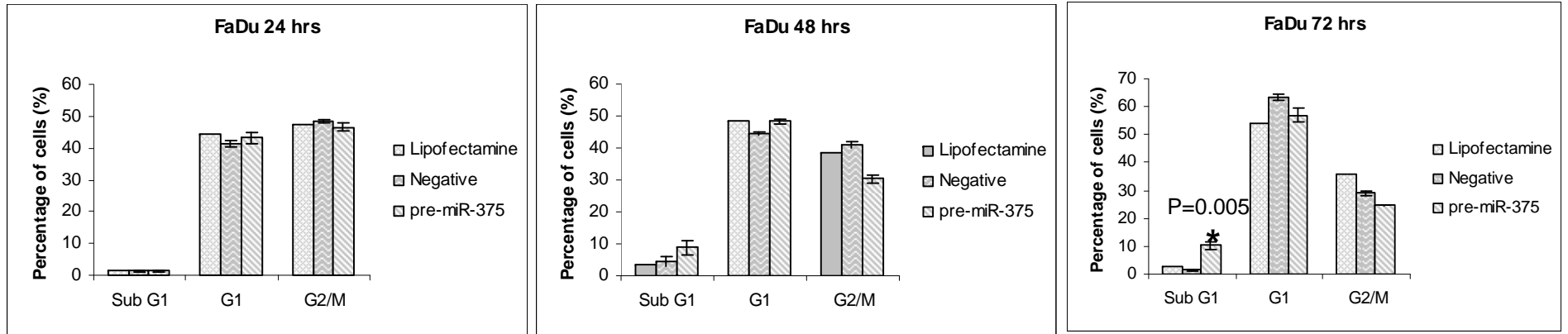


SUPPLEMENTARY FIGURE 3

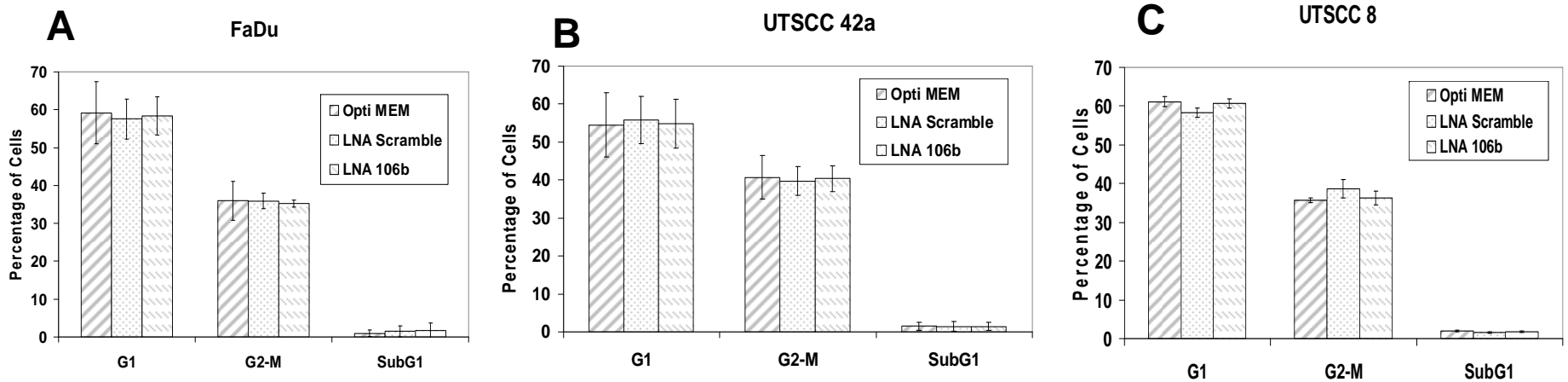


Expression levels of miR-10a, miR-25, miR-27a, miR-423, miR-93, and miR-106b in FaDu, UTSCC-8 and UTSCC-42a cells, relative to that in a normal oral epithelial cell line.

SUPPLEMENTARY FIGURE 4A



SUPPLEMENTARY FIGURE 4B



SUPPLEMENTARY TABLE 1
Clinical Characteristics of Patients

Tumor-subsites		Larynx	Oropharynx	Hypopharynx
Number of cases	54	20 (37%)	24 (44%)	10 (19%)
Gender	M (44)	17 (85%)	20 (83%)	7 (70%)
	F (10)	3 (15%)	4 (17%)	3 (30%)
Age (yrs)	Median	64	59	62
	Range	51-74	35-75	51-70
Disease Status	Relapsed	15 (75%)	19 (79%)	10 (100%)
	Non-relapsed	5 (25%)	5 (21%)	0

SUPPLEMENTARY TABLE 2

Differentially expressed miRNAs between HNSCC and normal tissues

	rawp	FDR	mean log2 T:N ratio	% of diff.exp	ratio.max
miR-375	0	0.12	-5.03	30	-1.68
miR-423	0	0.12	2.33	21	3.19
miR-93	0	0.12	1.95	26	2.94
miR-125b	0	0.12	-2.43	27	-1.22
miR-16	0.01	0.15	1.42	23	2.23
miR-20a	0.01	0.15	1.86	27	3.02
let-7a	0.01	0.15	-1.4	28	-0.39
miR-106b	0.01	0.16	2.5	29	5.41
miR-140	0.02	0.17	-2.66	24	0.46
miR-10a	0.02	0.17	-1.72	27	-0.14
miR-155	0.02	0.17	1.86	34	2.43
miR-25	0.02	0.17	1.42	26	2.43
miR-92	0.02	0.17	0.87	23	1.45
miR-193a	0.02	0.18	1.78	28	3.38
let-7i	0.03	0.18	1.23	23	2.23
miR-19b	0.03	0.18	1.52	28	3.28
miR-17-5p	0.03	0.18	1.87	21	3.97
miR-27a	0.03	0.18	1.39	24	2.83
miR-99a	0.03	0.18	-1.83	26	-0.39
miR-143	0.03	0.18	-1.82	22	0.43
miR-100	0.03	0.18	-1.64	26	-0.02
miR-223	0.03	0.18	1.74	27	3.37
miR-210	0.04	0.2	1.41	30	2.16
miR-142-3	0.04	0.2	2.22	28	5.3
miR-106a	0.05	0.2	1.34	26	2.78
miR-15a	0.05	0.2	1.35	25	2.99
miR-30c	0.05	0.2	-1.19	24	0.09
miR-21	0.05	0.22	1.88	30	4.89
miR-365	0.06	0.23	-1.2	26	0.21
miR-29b	0.06	0.24	1.11	23	2.55
miR-130b	0.07	0.25	1.3	22	3.16
miR-127	0.07	0.26	-1.33	28	0.15
miR-205	0.08	0.27	1.01	31	2.92
miR-199b	0.08	0.27	-1.17	29	0.15
let-7c	0.08	0.27	-1.06	26	-0.22
miR-422b	0.08	0.27	0.9	27	1.89

let-7e	0.09	0.27	-0.96	25	0.32
miR-26a	0.09	0.27	-0.91	27	0.59
miR-324-5	0.1	0.31	1.11	0	2.17
miR-374	0.11	0.31	1.1	0	2.83
miR-141	0.11	0.31	1.35	0	3.96
miR-20b	0.12	0.31	0.91	0	1.72
miR-505	0.12	0.31	-1.11	0	0.51
miR-451	0.12	0.31	1.39	1	3.21
miR-135b	0.12	0.31	1.25	0	4.14
miR-23b	0.12	0.31	-1.1	0	0.84
miR-214	0.13	0.33	-1.09	1	0.08
miR-15b	0.14	0.34	0.75	1	1.99
miR-130a	0.17	0.39	0.93	0	3.07
miR-30b	0.17	0.39	-0.88	1	0.37
miR-125a	0.17	0.39	-0.65	1	0.39
miR-135a	0.18	0.4	-1.16	0	1.31
miR-145	0.19	0.42	-1.37	2	2.07
miR-133a	0.21	0.45	-0.97	0	1.03
miR-181b	0.21	0.45	0.53	1	1.86
miR-10b	0.22	0.46	-0.79	0	2.02
miR-31	0.22	0.46	0.77	1	1.8
miR-382	0.24	0.46	-0.74	0	0.18
miR-497	0.24	0.46	-0.84	0	0.98
miR-151	0.24	0.46	1.13	0	4.09
miR-199a#	0.25	0.48	-1.17	3	0.85
miR-30a-5	0.26	0.49	-0.64	1	1.02
miR-132	0.26	0.49	0.87	0	3.19
miR-34c	0.29	0.53	-0.88	1	1.77
miR-486	0.29	0.53	0.9	0	2.11
miR-222	0.31	0.53	-0.78	3	0.11
miR-133b	0.31	0.53	-0.7	0	1.39
miR-148a	0.31	0.53	-1.55	0	2.11
miR-30d	0.32	0.54	-0.7	1	1.18
let-7g	0.32	0.54	-0.47	0	0.89
miR-142-5	0.34	0.56	0.52	0	1.37
miR-23a	0.36	0.56	-0.51	0	1.34
miR-30a-3	0.36	0.56	-0.83	0	1.88
miR-342	0.36	0.56	-0.46	0	0.87
miR-331	0.37	0.58	0.49	0	1.72
miR-28	0.39	0.59	0.38	0	1.7

miR-378	0.39	0.59	-0.43	0	0.03
miR-181d	0.39	0.59	0.38	0	1.24
miR-146a	0.41	0.6	0.4	1	2.44
miR-218	0.43	0.6	-0.67	0	0.52
miR-182	0.43	0.6	0.73	1	3.66
let-7d	0.43	0.6	0.34	0	1.45
miR-150	0.43	0.6	-0.74	1	0.44
miR-361	0.45	0.61	-0.28	0	0.2
let-7b	0.45	0.61	-0.25	0	0.42
miR-99b	0.47	0.61	-0.4	0	0.9
miR-30e-5	0.47	0.61	-0.35	0	1.88
miR-197	0.47	0.61	0.38	1	1.21
miR-148b	0.47	0.61	-0.49	0	1.63
miR-26b	0.53	0.69	-0.55	0	1.48
miR-221	0.55	0.7	0.18	1	1.41
miR-429	0.55	0.7	0.09	0	2.5
miR-191	0.57	0.7	-0.83	4	0.46
miR-224	0.57	0.7	0.32	0	1.13
miR-24	0.57	0.7	0.28	0	1.57
miR-34a	0.59	0.72	0.19	0	3.64
miR-181a	0.63	0.76	0.57	0	2.66
miR-186	0.66	0.77	-0.39	2	1.23
miR-29a	0.66	0.77	-0.3	0	1.79
miR-200a	0.66	0.77	0.03	0	3.31
miR-146b	0.71	0.8	-0.44	1	1.69
let-7f	0.71	0.8	-0.3	0	1.22
miR-320	0.71	0.8	0.38	0	1.45
miR-195	0.71	0.8	-0.42	1	1.94
miR-324-3	0.73	0.82	-0.22	0	1.72
miR-152	0.76	0.84	0.41	0	3.55
miR-200c	0.78	0.86	-0.53	4	0.7
miR-22	0.83	0.9	0.57	0	3.87
miR-149	0.86	0.91	0.33	0	2.11
miR-103	0.86	0.91	0.21	0	2.14
miR-187	0.88	0.92	-0.02	0	1.48
miR-126#	0.88	0.92	0.12	0	2.5
miR-203	0.91	0.94	0.01	2	1.23
miR-29c	0.99	1	0.59	0	4.78
miR-126	0.99	1	-0.04	0	1.93
miR-30e-3	1	1	-0.07	0	2.61

miR-27b	1	1	-0.01	0	2.38
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SUPPLEMENTARY TABLE 3

MiRNAs with differential expression between relapsed vs. non-relapsed patients

miRNAs	raw p-value	adj p-value	median log2 NR over R ratio
miR-451	0.0009	0.107	2.23
miR-146b	0.0096	0.3564	0.96
miR-150	0.0122	0.3564	1.51
let7-g	0.0165	0.3564	1.1
let7-c	0.019	0.3564	1.08
miR-142-3	0.019	0.3564	1.55
miR-20b	0.022	0.3564	1.15
let7-f	0.0289	0.3564	0.86
miR-19b	0.0289	0.3564	0.77
miR-142-5	0.0353	0.3564	0.95
miR-29a	0.0376	0.3564	0.83
miR-99b	0.0376	0.3564	-0.74
miR-200a	0.0401	0.3564	0.58
miR-26b	0.0427	0.3564	0.7