

Supplementary Table SIV Summary of miRNA expression data in OA and in SA phenotypes related to Nz.

miRNA	Average Cp _{Nz}	Average Cp _{OA}	Average Cp _{SA}	miRNA expression			P-value	
				Nz	OA	SA	OA-Nz	SA-Nz
hsa-let-7a-5p	20.57	20.30	20.17		1.124	1.173	>0.10	>0.10
hsa-let-7b-3p	29.51	29.52	29.57		0.926	0.853	>0.10	0.0518
hsa-let-7b-5p	21.54	21.35	21.25		1.063	1.088	>0.10	>0.10
hsa-let-7c-5p	23.01	22.63	22.60		1.215	1.185	>0.10	>0.10
hsa-let-7d-3p	28.58	28.36	28.11		1.085	1.233	>0.10	>0.10
hsa-let-7d-5p	27.16	27.13	26.79		0.957	1.149	>0.10	>0.10
hsa-let-7e-3p	32.56	32.46	32.55		0.997	0.897	>0.10	>0.10
hsa-let-7e-5p	25.56	25.26	25.10		1.146	1.223	>0.10	>0.10
hsa-let-7f-1-3p	34.25	34.02	33.23		1.093	1.808*	>0.10	0.0370
hsa-let-7f-2-3p	31.66	31.09	31.53		1.388	0.978	>0.10	>0.10
hsa-let-7f-5p	24.47	24.02	23.70		1.269	1.514	>0.10	>0.10
hsa-let-7g-5p	23.48	23.28	22.92		1.068	1.311	>0.10	>0.10
hsa-let-7i-3p	36.30	35.97	35.56		1.183	1.514	>0.10	>0.10
hsa-let-7i-5p	27.92	27.70	27.40		1.087	1.277	>0.10	>0.10
hsa-miR-100-5p	27.78	28.24	28.45		0.675	0.557	>0.10	>0.10
hsa-miR-101-3p	24.41	24.45	24.27		0.911	0.980	>0.10	>0.10
hsa-miR-101-5p	32.12	31.73	31.66		1.221	1.222	>0.10	>0.10
hsa-miR-103a-3p	23.06	22.85	22.70		1.079	1.136	>0.10	>0.10
hsa-miR-106a-3p ^{5cX}	33.74	33.10	32.83		1.451	1.674	>0.10	>0.10
hsa-miR-106a-5p ^{5cX}	22.54	22.48	22.45		0.972	0.952	>0.10	>0.10
hsa-miR-106b-3p	31.44	31.09	30.86		1.190	1.334	>0.10	>0.10
hsa-miR-106b-5p	26.35	25.86	25.88		1.311	1.233	>0.10	>0.10
hsa-miR-107	24.85	24.49	24.65		1.198	1.019	>0.10	>0.10
hsa-miR-10a-3p	35.86	36.47	35.21		0.422	1.230	>0.10	>0.10
hsa-miR-10a-5p	28.77	29.63	29.59		0.513	0.505	>0.10	>0.10
hsa-miR-10b-3p	34.39	35.96	34.33		0.313*	0.923	0.0261	>0.10
hsa-miR-10b-5p	24.98	25.69	25.00		0.571	0.877	>0.10	>0.10
hsa-miR-1224-3p	36.23	34.01	34.56		4.568	2.618	>0.10	>0.10
hsa-miR-122-5p	32.64	35.87	35.20		0.094*	0.133*	0.0220	0.0324
hsa-miR-124-3p	36.79	40.00	37.67		0.101**	0.481	0.0012	>0.10
hsa-miR-1249	35.77	33.99	33.88		3.103	3.377	>0.10	>0.10
hsa-miR-125a-3p	32.16	31.96	31.86		1.067	1.092	>0.10	>0.10
hsa-miR-125a-5p	23.75	23.58	23.46		1.048	1.088	>0.10	>0.10
hsa-miR-125b-2-3p	29.19	29.39	29.14		0.814	0.922	>0.10	>0.10
hsa-miR-125b-5p	21.95	22.30	22.04		0.730	0.834	>0.10	>0.10
hsa-miR-1260a	22.09	21.97	22.17		1.016	0.846	>0.10	>0.10
hsa-miR-126-3p	28.52	28.58	28.19		0.894	1.116	>0.10	>0.10
hsa-miR-126-5p	33.40	33.18	33.52		1.083	0.817	>0.10	>0.10
hsa-miR-1267	35.62	35.66	36.20		0.916	0.532	>0.10	>0.10
hsa-miR-1270	40.00	36.45	37.17		10.920	6.340	>0.10	>0.10
hsa-miR-1271-5p	34.87	35.47	34.74		0.739	0.861	>0.10	>0.10
hsa-miR-127-3p	31.52	30.93	31.78		1.405	0.744	>0.10	>0.10
hsa-miR-128-3p	30.87	30.31	30.24		1.380	1.376	>0.10	>0.10
hsa-miR-1296-5p	31.25	31.09	30.76		1.039	1.244	>0.10	>0.10
hsa-miR-130a-3p	32.80	32.58	32.39		1.082	1.176	>0.10	>0.10
hsa-miR-130b-3p	32.29	32.11	32.25		0.919	0.913	>0.10	>0.10

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miRNA	Average Cp _{Nz}	Average Cp _{OA}	Average Cp _{SA}	miRNA expression			P-value	
				Nz	OA	SA	OA-Nz	SA-Nz
hsa-miR-130b-5p	32.34	32.58	33.01	1	0.791	0.560	>0.10	>0.10
hsa-miR-132-3p	27.29	27.69	27.58	1	0.706	0.725	>0.10	>0.10
hsa-miR-132-5p	32.32	32.79	33.28	1	0.674	0.456*	>0.10	0.0484
hsa-miR-134-5p	34.53	33.33	33.84	1	2.152	1.440	>0.10	>0.10
hsa-miR-135a-5p	23.77	23.73	23.77	1	0.954	0.885	>0.10	>0.10
hsa-miR-135b-5p	29.37	31.07	30.37	1	0.288	0.446	0.0703	>0.10
hsa-miR-136-3p	34.55	33.85	34.22	1	1.523	0.990	>0.10	>0.10
hsa-miR-136-5p	33.15	31.44	32.37	1	3.053	1.526	>0.10	>0.10
hsa-miR-139-5p	35.31	36.26	35.73	1	0.484	0.667	>0.10	>0.10
hsa-miR-140-3p	27.30	27.52	27.41	1	0.805	0.828	>0.10	>0.10
hsa-miR-140-5p	29.75	29.64	29.45	1	1.008	1.091	>0.10	>0.10
hsa-miR-141-3p	21.63	21.55	21.47	1	0.990	0.998	>0.10	>0.10
hsa-miR-141-5p	29.05	28.87	28.81	1	1.057	1.044	>0.10	>0.10
hsa-miR-142-3p	32.00	31.71	32.66	1	1.145	0.564	>0.10	>0.10
hsa-miR-142-5p	36.12	36.26	35.74	1	0.833	1.460	>0.10	>0.10
hsa-miR-143-3p	36.42	35.33	35.36	1	1.990	1.640	0.0861	>0.10
hsa-miR-144-3p	36.18	35.52	35.08	1	1.290	1.891	>0.10	>0.10
hsa-miR-145-5p	35.77	36.35	35.93	1	0.594	0.895	>0.10	>0.10
hsa-miR-1468-5p	32.58	32.43	32.53	1	1.037	0.918	>0.10	>0.10
hsa-miR-146a-5p	29.83	28.95	29.27	1	1.794	1.369	>0.10	>0.10
hsa-miR-146b-3p	33.72	35.14	35.61	1	0.348	0.240	0.0737	>0.10
hsa-miR-146b-5p	29.86	31.26	31.04	1	0.355	0.393	0.0738	0.0930
hsa-miR-148a-3p	23.64	22.78	22.93	1	1.708	1.465	>0.10	>0.10
hsa-miR-148b-3p	27.08	26.62	26.36	1	1.279	1.464	>0.10	>0.10
hsa-miR-148b-5p	32.55	32.84	32.25	1	0.761	1.095	>0.10	>0.10
hsa-miR-149-3p	31.86	31.37	31.56	1	1.310	1.091	>0.10	>0.10
hsa-miR-149-5p	24.69	24.51	24.43	1	1.052	1.064	>0.10	>0.10
hsa-miR-150-5p	32.47	33.56	33.46	1	0.438	0.448	0.0837	0.0960
hsa-miR-151a-3p	26.90	26.93	26.80	1	0.913	0.953	>0.10	>0.10
hsa-miR-151a-5p	24.96	25.09	24.67	1	0.856	1.090	>0.10	>0.10
hsa-miR-152-3p	27.12	27.01	26.84	1	1.007	1.081	>0.10	>0.10
hsa-miR-153-3p	31.24	30.40	29.90	1	1.667	2.251*	>0.10	0.0434
hsa-miR-1537-3p	35.07	35.56	34.80	1	0.650	1.052	>0.10	>0.10
hsa-miR-154-5p	32.68	32.22	32.95	1	1.284	0.740	0.0765	>0.10
hsa-miR-155-5p	26.95	27.32	27.13	1	0.722	0.782	>0.10	>0.10
hsa-miR-15a-3p	38.26	35.81	37.55	1	5.112	1.456	>0.10	>0.10
hsa-miR-15a-5p	25.62	25.43	25.66	1	1.067	0.869	>0.10	>0.10
hsa-miR-15b-3p	32.61	32.56	32.95	1	0.962	0.703	>0.10	0.0684
hsa-miR-15b-5p	28.23	27.64	28.06	1	1.400	0.999	>0.10	>0.10
hsa-miR-16-1-3p	33.43	33.17	33.33	1	1.115	0.949	>0.10	>0.10
hsa-miR-16-2-3p	33.76	33.43	33.58	1	1.175	1.007	>0.10	>0.10
hsa-miR-16-5p	22.09	22.60	22.53	1	0.657	0.657	>0.10	>0.10
hsa-miR-17-3p	31.37	30.40	30.30	1	1.829	1.867	>0.10	>0.10
hsa-miR-17-5p	29.84	29.46	29.44	1	1.217	1.176	>0.10	>0.10
hsa-miR-181a-2-3p	33.45	34.02	34.47	1	0.628	0.436	>0.10	>0.10
hsa-miR-181a-5p	28.56	30.24	29.52	1	0.292*	0.459	0.0451	>0.10

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Supplementary Table SIV *Continued*

miRNA	Average Cp _{Nz}	Average Cp _{OA}	Average Cp _{SA}	miRNA expression			P-value	
				Nz	OA	SA	OA-Nz	SA-Nz
hsa-miR-181b-5p	31.40	33.32	32.70	1	0.246*	0.362	0.0429	0.0907
hsa-miR-181c-3p	32.96	32.47	33.24	1	1.310	0.734	>0.10	>0.10
hsa-miR-181c-5p	33.58	33.65	34.18	1	0.901	0.595	>0.10	>0.10
hsa-miR-181d-5p	33.67	34.96	34.81	1	0.389	0.411	>0.10	0.0981
hsa-miR-182-3p	34.10	35.33	33.39	1	0.399*	1.454	0.0344	>0.10
hsa-miR-182-5p	26.21	26.31	25.95	1	0.868	1.064	>0.10	>0.10
hsa-miR-183-3p	33.75	34.29	33.86	1	0.441	0.929	>0.10	>0.10
hsa-miR-183-5p	27.42	27.55	27.19	1	0.851	1.045	>0.10	>0.10
hsa-miR-185-5p	26.27	26.45	26.17	1	0.823	0.950	>0.10	>0.10
hsa-miR-186-5p	30.24	29.94	30.18	1	1.150	0.929	>0.10	>0.10
hsa-miR-187-3p	28.46	28.74	28.21	1	0.769	1.057	>0.10	>0.10
hsa-miR-187-5p	35.59	35.37	35.24	1	0.949	1.137	>0.10	>0.10
hsa-miR-188-3p ^{4cX}	35.32	33.98	34.24	1	2.012	1.846	>0.10	>0.10
hsa-miR-188-5p ^{4cX}	34.53	34.86	34.71	1	0.928	0.819	>0.10	>0.10
hsa-miR-18a-3p	33.07	33.05	32.72	1	0.948	1.134	>0.10	>0.10
hsa-miR-18a-5p	29.20	28.78	28.74	1	1.247	1.222	>0.10	>0.10
hsa-miR-18b-3p ^{5cX}	34.62	34.16	33.71	1	1.290	1.673	>0.10	>0.10
hsa-miR-18b-5p ^{5cX}	28.71	28.32	28.31	1	1.225	1.176	>0.10	>0.10
hsa-miR-1908-5p	34.42	33.67	34.04	1	1.569	1.165	>0.10	>0.10
hsa-miR-190a-5p	32.63	32.15	32.07	1	1.303	1.314	>0.10	>0.10
hsa-miR-190b	35.94	37.88	36.53	1	0.243	0.588	>0.10	>0.10
hsa-miR-191-3p	34.01	34.35	33.68	1	0.734	1.117	>0.10	>0.10
hsa-miR-191-5p	24.54	24.73	24.36	1	0.817	1.008	>0.10	>0.10
hsa-miR-192-3p	35.30	36.02	34.38	1	0.567	1.689	>0.10	>0.10
hsa-miR-192-5p	28.23	28.77	28.44	1	0.641	0.769	>0.10	0.0598
hsa-miR-193a-3p	35.00	33.66	34.02	1	2.879*	1.783	0.0424	>0.10
hsa-miR-193a-5p	29.34	29.19	28.95	1	1.031	1.164	>0.10	>0.10
hsa-miR-193b-3p	26.13	25.77	25.83	1	1.196	1.096	>0.10	>0.10
hsa-miR-193b-5p	31.49	31.31	31.39	1	1.056	0.952	>0.10	>0.10
hsa-miR-194-5p	28.10	28.59	28.18	1	0.665	0.839	>0.10	>0.10
hsa-miR-195-3p	34.44	34.21	34.48	1	1.091	0.865	>0.10	>0.10
hsa-miR-195-5p	25.54	25.56	25.82	1	0.916	0.734	>0.10	>0.10
hsa-miR-196a-5p	34.78	34.09	34.78	1	1.498	0.890	>0.10	>0.10
hsa-miR-196b-3p	30.82	30.56	30.12	1	1.123	1.451*	>0.10	0.0463
hsa-miR-196b-5p	25.79	25.79	25.50	1	0.931	1.082	>0.10	>0.10
hsa-miR-1972	32.34	32.46	33.20	1	0.853	0.489	>0.10	>0.10
hsa-miR-197-3p	28.24	27.80	27.94	1	1.264	1.095	>0.10	>0.10
hsa-miR-199a-3p	34.82	35.33	35.18	1	0.657	0.615	>0.10	>0.10
hsa-miR-199b-5p	36.39	35.74	35.06	1	1.476	1.994	>0.10	>0.10
hsa-miR-19a-3p	25.34	25.15	25.44	1	1.065	0.831	>0.10	>0.10
hsa-miR-19b-1-5p	32.35	32.30	31.98	1	0.967	1.146	>0.10	>0.10
hsa-miR-19b-2-5p ^{5cX}	35.94	35.13	35.63	1	1.423	1.101	>0.10	>0.10
hsa-miR-19b-3p ^{5cX}	22.73	22.53	22.61	1	1.067	0.963	>0.10	>0.10
hsa-miR-200a-3p	23.76	23.81	23.49	1	0.902	1.070	>0.10	>0.10
hsa-miR-200a-5p	29.74	29.95	29.61	1	0.804	0.972	>0.10	>0.10
hsa-miR-200b-3p	22.09	22.23	21.84	1	0.849	1.058	0.0888	>0.10

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Supplementary Table SIV Continued

miRNA	Average Cp _{Nz}	Average Cp _{OA}	Average Cp _{SA}	miRNA expression			P-value	
				Nz	OA	SA	OA-Nz	SA-Nz
hsa-miR-200b-5p	27.26	27.49	27.07		0.798	1.017	>0.10	>0.10
hsa-miR-200c-3p	20.38	20.64	20.29		0.782	0.950	>0.10	>0.10
hsa-miR-200c-5p	31.74	31.89	31.49		0.842	1.053	>0.10	>0.10
hsa-miR-202-3p	30.69	40.00	40.00		0.001**	0.001**	0.0004	0.0009
hsa-miR-202-5p	32.18	40.00	40.00		0.004**	0.004**	0.0001	0.0001
hsa-miR-203a	25.16	25.07	25.18		0.995	0.880*	>0.10	0.0377
hsa-miR-204-5p	29.68	29.88	30.31		0.810	0.575	>0.10	>0.10
hsa-miR-205-5p	25.27	26.62	25.55		0.367*	0.734	0.0257	>0.10
hsa-miR-20a-3p	29.12	28.85	28.83		1.127	1.085	>0.10	>0.10
hsa-miR-20a-5p	23.33	23.26	23.25		0.984	0.945	>0.10	>0.10
hsa-miR-20b-3p ^{5cX}	30.08	29.69	29.95		1.228	0.974	>0.10	>0.10
hsa-miR-20b-5p ^{5cX}	28.19	27.50	27.94		1.503	1.059	>0.10	>0.10
hsa-miR-210-3p	27.96	28.00	27.58		0.907	1.154	>0.10	>0.10
hsa-miR-2110	30.83	31.04	30.47		0.803	1.135	>0.10	>0.10
hsa-miR-212-3p	32.51	32.15	32.72		1.199	0.770	>0.10	>0.10
hsa-miR-212-5p	35.93	35.76	35.71		1.054	0.919	>0.10	>0.10
hsa-miR-21-3p	33.43	32.19	32.69		2.202*	1.485	0.0372	>0.10
hsa-miR-215-5p	29.66	30.21	29.81		0.639	0.801	0.0579	>0.10
hsa-miR-21-5p	21.09	20.64	20.86		1.270	1.047	>0.10	>0.10
hsa-miR-217	36.64	35.61	35.85		2.504	1.547	>0.10	>0.10
hsa-miR-218-5p	31.89	32.04	31.48		0.836	1.175	>0.10	>0.10
hsa-miR-219a-5p	31.98	31.49	31.72		1.308	1.067	>0.10	>0.10
hsa-miR-221-3p	28.84	30.30	29.69		0.338	0.492	>0.10	>0.10
hsa-miR-222-3p	26.18	27.71	26.82		0.323*	0.570	0.0296	>0.10
hsa-miR-223-3p	31.17	29.89	31.25		2.263	0.838	>0.10	>0.10
hsa-miR-22-3p	27.52	26.77	26.90		1.562	1.361	>0.10	>0.10
hsa-miR-224-3p	33.96	34.98	36.27		0.436	0.202	>0.10	0.0818
hsa-miR-224-5p	35.31	35.69	36.03		0.680	0.477	>0.10	>0.10
hsa-miR-22-5p	29.60	28.84	28.90		1.581	1.445	>0.10	>0.10
hsa-miR-23a-3p	23.90	24.04	24.02		0.847	0.823	>0.10	>0.10
hsa-miR-23b-3p	23.56	23.63	23.50		0.888	0.928	>0.10	>0.10
hsa-miR-23b-5p	35.46	33.99	34.71		2.590*	1.498	0.0284	>0.10
hsa-miR-24-1-5p	33.69	33.18	33.04		1.325	1.390	>0.10	>0.10
hsa-miR-24-2-5p	32.74	32.67	32.72		0.976	0.900	>0.10	>0.10
hsa-miR-24-3p	23.67	23.89	23.61		0.805	0.929	>0.10	>0.10
hsa-miR-25-3p	25.83	26.01	25.59		0.824	1.054	>0.10	>0.10
hsa-miR-25-5p	33.68	33.57	33.66		1.012	0.904	>0.10	>0.10
hsa-miR-26a-1-3p	33.96	33.84	33.54		1.017	1.197	>0.10	>0.10
hsa-miR-26a-2-3p	36.20	36.81	36.07		0.679	0.981	>0.10	>0.10
hsa-miR-26a-5p	23.23	23.19	23.18		0.958	0.919	>0.10	>0.10
hsa-miR-26b-3p	32.01	31.57	31.50		1.258	1.261	>0.10	>0.10
hsa-miR-26b-5p	24.94	24.20	24.31		1.560	1.374	>0.10	>0.10
hsa-miR-27a-3p	27.70	27.17	27.37		1.346	1.119	>0.10	>0.10
hsa-miR-27b-3p	24.82	24.77	24.68		0.964	0.975	>0.10	>0.10
hsa-miR-27b-5p	33.11	33.26	32.94		0.836	1.000	>0.10	>0.10
hsa-miR-28-3p	26.70	26.79	26.67		0.876	0.912	>0.10	>0.10

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Supplementary Table SIV *Continued*

miRNA	Average Cp _{Nz}	Average Cp _{OA}	Average Cp _{SA}	miRNA expression			P-value	
				Nz	OA	SA	OA-Nz	SA-Nz
hsa-miR-28-5p	26.33	26.31	26.17	1	0.943	0.990	>0.10	>0.10
hsa-miR-296-3p	35.52	35.77	36.13	1	0.795	0.667	>0.10	>0.10
hsa-miR-296-5p	34.74	32.75	33.48	1	3.705*	2.400	0.0177	>0.10
hsa-miR-29a-3p	26.48	25.68	25.94	1	1.614*	1.288	0.0103	>0.10
hsa-miR-29a-5p	28.35	28.26	28.32	1	0.989	0.907	>0.10	>0.10
hsa-miR-29b-2-5p	28.90	28.87	28.63	1	0.951	1.072	>0.10	>0.10
hsa-miR-29b-3p	25.73	25.03	24.96	1	1.517	1.516	>0.10	>0.10
hsa-miR-29c-3p	25.29	24.43	24.62	1	1.687*	1.415	0.0468	>0.10
hsa-miR-29c-5p	30.81	30.04	30.08	1	1.582	1.466	0.0759	>0.10
hsa-miR-301a-3p	30.31	30.63	30.23	1	0.748	0.941	>0.10	>0.10
hsa-miR-301b	33.65	34.40	33.68	1	0.556	0.872	>0.10	>0.10
hsa-miR-30a-3p	27.93	27.83	27.94	1	1.003	0.887	>0.10	>0.10
hsa-miR-30a-5p	26.08	25.73	26.27	1	1.193	0.781	>0.10	>0.10
hsa-miR-30b-3p	35.80	34.66	34.51	1	2.050	2.174	0.0914	>0.10
hsa-miR-30b-5p	23.30	23.31	23.31	1	0.929	0.886	>0.10	>0.10
hsa-miR-30c-1-3p	35.63	35.69	35.09	1	0.895	1.290	>0.10	>0.10
hsa-miR-30c-5p	23.93	23.83	23.88	1	1.001	0.919	>0.10	0.0630
hsa-miR-30d-3p	30.36	30.09	30.21	1	1.126	0.986	>0.10	>0.10
hsa-miR-30d-5p	24.02	23.97	23.87	1	0.969	0.985	>0.10	>0.10
hsa-miR-30e-3p	26.73	26.71	26.56	1	0.950	1.005	>0.10	>0.10
hsa-miR-30e-5p	24.65	24.72	24.59	1	0.889	0.930	>0.10	>0.10
hsa-miR-31-3p	32.20	34.10	33.48	1	0.250*	0.367	0.0481	>0.10
hsa-miR-31-5p	28.68	30.31	29.38	1	0.302*	0.548	0.0387	>0.10
hsa-miR-320a	25.21	25.43	24.96	1	0.800	1.056	>0.10	>0.10
hsa-miR-320b	26.60	26.88	26.45	1	0.765	0.985	>0.10	>0.10
hsa-miR-320c	28.35	28.28	27.77	1	0.982	1.331	>0.10	>0.10
hsa-miR-320d	29.69	30.22	29.33	1	0.778	1.140	>0.10	>0.10
hsa-miR-323a-3p	34.64	33.46	34.91	1	2.118	0.738	>0.10	>0.10
hsa-miR-32-3p	34.03	33.81	33.41	1	1.087	1.370	>0.10	>0.10
hsa-miR-324-3p	27.77	27.36	27.39	1	1.240	1.155	>0.10	>0.10
hsa-miR-324-5p	27.27	26.96	26.80	1	1.158	1.229	>0.10	>0.10
hsa-miR-32-5p	28.59	27.84	28.21	1	1.566	1.159	>0.10	>0.10
hsa-miR-328-3p	29.90	29.49	29.51	1	1.235	1.162	>0.10	>0.10
hsa-miR-330-3p	32.73	32.59	32.44	1	1.025	1.087	>0.10	>0.10
hsa-miR-330-5p	35.10	35.29	33.79	1	0.797	1.700	>0.10	>0.10
hsa-miR-331-3p	27.63	27.69	27.66	1	0.898	0.869	>0.10	>0.10
hsa-miR-331-5p	34.97	35.24	35.25	1	0.780	0.737	>0.10	>0.10
hsa-miR-335-3p	34.12	35.46	34.59	1	0.369	0.641	0.0529	>0.10
hsa-miR-335-5p	30.14	30.44	29.86	1	0.756	1.081	>0.10	>0.10
hsa-miR-338-3p	29.30	28.74	29.00	1	1.373	1.093	>0.10	>0.10
hsa-miR-338-5p	35.91	36.48	36.76	1	0.653	0.454	>0.10	>0.10
hsa-miR-339-3p	29.34	29.20	29.25	1	1.028	0.949	>0.10	>0.10
hsa-miR-339-5p	28.16	27.90	27.93	1	1.118	1.042	>0.10	>0.10
hsa-miR-33a-3p	30.87	30.65	30.64	1	1.087	1.045	>0.10	>0.10
hsa-miR-33a-5p	29.26	27.83	28.36	1	2.528	1.663	0.0928	>0.10
hsa-miR-33b-3p	31.94	31.87	32.44	1	0.976	0.628	>0.10	>0.10

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Supplementary Table SIV *Continued*

miRNA	Average Cp _{Nz}	Average Cp _{OA}	Average Cp _{SA}	miRNA expression			P-value	
				Nz	OA	SA	OA-Nz	SA-Nz
hsa-miR-33b-5p	35.06	33.59	34.20		2.583	1.613	0.0968	>0.10
hsa-miR-340-3p	32.34	32.06	31.64		1.131	1.440	>0.10	0.0699
hsa-miR-340-5p	30.47	30.29	30.34		0.960	0.893	>0.10	>0.10
hsa-miR-342-3p	25.37	25.65	25.54		0.772	0.790	>0.10	>0.10
hsa-miR-342-5p	33.01	32.96	33.15		0.840	0.809	>0.10	>0.10
hsa-miR-345-5p	27.66	27.79	27.48		0.852	1.009	>0.10	>0.10
hsa-miR-346	35.04	34.86	36.03		1.284	0.454	>0.10	>0.10
hsa-miR-34a-3p	31.32	31.05	30.39		1.131	1.704	>0.10	>0.10
hsa-miR-34a-5p	28.28	27.70	26.59		1.393	2.862	>0.10	0.0665
hsa-miR-34b-3p	32.35	35.66	35.28		0.124	0.132	>0.10	>0.10
hsa-miR-34b-5p	31.44	35.21	33.86		0.007*	0.167*	0.0272	0.0163
hsa-miR-34c-3p	33.83	36.96	35.06		0.093*	0.382	0.0087	>0.10
hsa-miR-34c-5p	30.18	34.17	33.78		0.059**	0.073*	0.0005	0.0244
hsa-miR-361-3p	30.59	29.69	29.77		1.741*	1.575	0.0473	0.0720
hsa-miR-361-5p	25.45	25.37	25.20		0.986	1.053	>0.10	>0.10
hsa-miR-362-3p ^{4cX}	29.95	30.02	30.09		0.891	0.808	>0.10	>0.10
hsa-miR-362-5p ^{4cX}	32.07	32.47	32.26		0.708	0.781	>0.10	>0.10
hsa-miR-363-3p ^{5cX}	24.42	23.76	23.94		1.474**	1.241**	0.0002	0.0043
hsa-miR-363-5p ^{5cX}	34.82	33.94	33.65		1.725	2.004	>0.10	>0.10
hsa-miR-365a-3p	28.61	27.76	27.96		1.689*	1.394*	0.0350	0.0171
hsa-miR-365b-5p	35.70	35.26	34.07		1.267	2.760	>0.10	>0.10
hsa-miR-370-3p	36.90	34.64	35.83		3.795	1.594	>0.10	>0.10
hsa-miR-374a-5p	27.93	27.48	27.70		1.280	1.044	>0.10	>0.10
hsa-miR-374b-3p	33.70	32.65	33.03		1.933	1.414	>0.10	>0.10
hsa-miR-374b-5p	26.44	26.31	26.30		1.018	0.980	>0.10	>0.10
hsa-miR-375	20.85	21.15	20.63		0.758	1.030	>0.10	>0.10
hsa-miR-376a-3p	32.77	31.84	32.78		1.781	0.884	>0.10	>0.10
hsa-miR-376b-3p	34.83	33.93	35.20		1.544	0.702	>0.10	>0.10
hsa-miR-376c-3p	32.35	31.31	32.54		1.923	0.782	>0.10	>0.10
hsa-miR-378a-5p	36.44	35.74	36.12		1.538	1.266	>0.10	>0.10
hsa-miR-379-5p	34.12	32.96	34.64		2.071	0.618	>0.10	>0.10
hsa-miR-381-3p	35.54	35.24	35.67		1.197	0.837	>0.10	>0.10
hsa-miR-382-5p	33.25	32.75	33.79		1.318	0.609	>0.10	>0.10
hsa-miR-383-5p	36.03	40.00	40.00		0.059**	0.057**	0.0031	0.0010
hsa-miR-409-3p	33.61	32.84	32.48		1.601	1.947	>0.10	>0.10
hsa-miR-410-3p	35.92	34.35	34.96		2.801	1.753	>0.10	>0.10
hsa-miR-411-5p	33.96	33.65	34.07		1.156	0.826	>0.10	>0.10
hsa-miR-421	29.66	30.02	30.04		0.725	0.685	>0.10	>0.10
hsa-miR-423-3p	26.27	25.88	25.58		1.223	1.429	>0.10	0.0673
hsa-miR-423-5p	27.59	27.31	26.85		1.129	1.485*	>0.10	0.0165
hsa-miR-424-5p	30.61	32.75	31.68		0.212*	0.424	0.0392	>0.10
hsa-miR-425-3p	29.84	29.71	29.66		1.017	1.006	>0.10	>0.10
hsa-miR-425-5p	27.73	27.60	27.48		1.016	1.051	>0.10	>0.10
hsa-miR-429	26.61	26.33	26.34		1.132	1.075	>0.10	>0.10
hsa-miR-432-5p	35.78	34.95	35.54		1.664	1.050	>0.10	>0.10
hsa-miR-449a	30.27	32.25	32.38		0.237*	0.205**	0.0193	0.0020

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Supplementary Table SIV Continued

miRNA	Average Cp _{Nz}	Average Cp _{OA}	Average Cp _{SA}	miRNA expression			P-value	
				Nz	OA	SA	OA-Nz	SA-Nz
hsa-miR-449b-3p	35.71	36.16	35.75		0.594	0.852	>0.10	>0.10
hsa-miR-450a-5p	34.36	36.21	35.52		0.339	0.399	>0.10	>0.10
hsa-miR-451a	35.25	34.04	34.88		2.184	1.158	>0.10	>0.10
hsa-miR-452-5p	32.94	36.83	35.53		0.063*	0.148*	0.0164	0.0355
hsa-miR-454-3p	29.58	29.65	29.45		0.891	0.974	>0.10	>0.10
hsa-miR-455-3p	30.52	31.88	31.54		0.364*	0.439	0.0097	0.0750
hsa-miR-455-5p	33.47	34.76	35.05		0.382*	0.297*	0.0419	0.0442
hsa-miR-484	28.42	28.00	28.03		1.253	1.162	>0.10	>0.10
hsa-miR-485-3p	35.68	35.49	35.16		1.295	1.287	>0.10	>0.10
hsa-miR-486-5p	33.60	32.18	32.79		2.512	1.568	>0.10	>0.10
hsa-miR-487b-3p	34.15	32.96	33.78		2.133	1.154	>0.10	>0.10
hsa-miR-491-3p	35.64	34.65	35.27		1.279	1.149	>0.10	>0.10
hsa-miR-491-5p	29.82	29.70	29.44		1.009	1.155	>0.10	>0.10
hsa-miR-493-3p	36.58	34.18	34.20		4.482	4.252	>0.10	>0.10
hsa-miR-493-5p	36.58	35.44	35.71		2.073	1.622	0.0765	>0.10
hsa-miR-495-3p	34.50	32.90	34.31		2.841	1.020	>0.10	>0.10
hsa-miR-497-5p	28.10	27.31	27.45		1.612	1.394	>0.10	>0.10
hsa-miR-499a-5p	34.44	35.88	35.93		0.343*	0.315*	0.0382	0.0310
hsa-miR-500a-5p ^{4cX}	30.54	31.36	31.05		0.530	0.624	>0.10	>0.10
hsa-miR-501-3p ^{4cX}	31.72	32.13	32.04		0.703	0.716	>0.10	>0.10
hsa-miR-501-5p ^{4cX}	31.08	32.31	31.95		0.397	0.485	0.0677	>0.10
hsa-miR-502-3p ^{4cX}	30.76	31.10	30.95		0.739	0.779	>0.10	>0.10
hsa-miR-504-5p	34.06	33.00	33.55		1.957	1.442	>0.10	>0.10
hsa-miR-505-3p	30.15	30.27	30.02		0.860	0.977	>0.10	>0.10
hsa-miR-505-5p	34.38	34.63	33.79		0.785	1.331	>0.10	>0.10
hsa-miR-506-3p ^{1cX}	35.77	40.00	40.00		0.050**	0.047**	0.0014	0.0003
hsa-miR-508-5p ^{1cX}	35.14	40.00	40.00		0.032**	0.031**	0.0029	0.0045
hsa-miR-509-3-5p ^{1cX}	31.96	40.00	37.73		0.004**	0.016*	0.0000	0.0206
hsa-miR-509-3p ^{1cX}	32.81	34.30	34.39		0.318	0.299	0.0866	>0.10
hsa-miR-510-5p ^{2cX}	33.14	40.00	40.00		0.008**	0.008**	0.0002	0.0000
hsa-miR-513a-3p ^{1cX}	35.30	40.00	40.00		0.036*	0.034*	0.0232	0.0257
hsa-miR-513b-5p ^{3cX}	35.82	39.08	39.79		0.097	0.057	0.0629	0.0559
hsa-miR-513c-5p ^{3cX}	33.42	40.00	40.00		0.010**	0.009**	0.0015	0.0025
hsa-miR-514a-3p ^{2cX}	29.69	40.00	40.00		0.001**	0.001**	0.0001	0.0002
hsa-miR-517a-3p ^{1c19}	33.11	35.09	34.97		0.163	0.192	>0.10	>0.10
hsa-miR-517c-3p ^{2c19}	33.39	37.14	36.67		0.069**	0.091*	0.0056	0.0285
hsa-miR-518e-3p ^{1c19}	34.75	39.76	38.22		0.029**	0.080*	0.0000	0.0331
hsa-miR-519d-3p ^{1c19}	35.00	36.69	36.83		0.202	0.255	>0.10	>0.10
hsa-miR-520c-3p ^{1c19}	37.10	40.00	40.00		0.125	0.119	0.0866	0.0867
hsa-miR-520h ^{2c19}	35.29	40.00	39.33		0.036**	0.054*	0.0008	0.0369
hsa-miR-521 ^{1c19,2c19}	35.57	40.00	40.00		0.042*	0.040*	0.0201	0.0317
hsa-miR-532-3p ^{4cX}	27.90	28.05	27.84		0.839	0.930	>0.10	>0.10
hsa-miR-532-5p ^{4cX}	28.04	28.44	28.13		0.708	0.839	>0.10	>0.10
hsa-miR-539-5p	34.29	33.18	34.56		2.006	0.735	>0.10	>0.10
hsa-miR-543	35.25	33.30	33.93		3.602	2.223	0.0570	>0.10
hsa-miR-545-3p	32.79	32.56	32.32		1.095	1.231	>0.10	>0.10

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Supplementary Table SIV *Continued*

miRNA	Average Cp _{Nz}	Average Cp _{OA}	Average Cp _{SA}	miRNA expression			P-value	
				Nz	OA	SA	OA-Nz	SA-Nz
hsa-miR-548b-3p	36.55	36.74	36.07	1	0.589	1.289	>0.10	>0.10
hsa-miR-548j-5p	35.25	36.05	36.26	1	0.706	0.436	>0.10	>0.10
hsa-miR-548k	35.08	35.07	34.33	1	0.945	1.505	>0.10	>0.10
hsa-miR-548l	36.40	36.65	36.31	1	1.028	1.068	>0.10	>0.10
hsa-miR-550a-3p	35.75	35.72	35.48	1	0.957	1.076	>0.10	>0.10
hsa-miR-550a-5p	40.00	38.60	36.59	1	2.465	9.455*	>0.10	0.0094
hsa-miR-551b-3p	33.44	36.18	35.29	1	0.139**	0.246	0.0042	0.0764
hsa-miR-570-3p	33.46	33.70	33.19	1	0.797	1.087	>0.10	>0.10
hsa-miR-574-3p	24.42	24.64	24.27	1	0.803	0.988	>0.10	>0.10
hsa-miR-576-3p	35.09	34.82	35.27	1	0.778	0.892	>0.10	>0.10
hsa-miR-576-5p	34.93	34.31	34.00	1	1.434	1.697	>0.10	>0.10
hsa-miR-582-3p	32.15	32.15	32.01	1	0.936	1.108	>0.10	>0.10
hsa-miR-582-5p	27.62	27.70	27.60	1	0.883	0.903	>0.10	>0.10
hsa-miR-589-3p	33.05	33.15	33.02	1	0.872	0.911	>0.10	>0.10
hsa-miR-589-5p	34.38	33.51	33.59	1	1.698	1.531	>0.10	>0.10
hsa-miR-590-3p	31.33	31.06	30.88	1	1.119	1.212	>0.10	>0.10
hsa-miR-590-5p	27.59	27.66	27.47	1	0.887	0.970	>0.10	>0.10
hsa-miR-592	35.37	34.81	34.93	1	1.370	1.208	>0.10	>0.10
hsa-miR-598-3p	29.03	29.22	28.68	1	0.817	1.127	>0.10	>0.10
hsa-miR-616-3p	35.47	36.06	36.31	1	0.427	0.491	>0.10	>0.10
hsa-miR-616-5p	35.14	35.04	35.65	1	1.001	0.625	>0.10	>0.10
hsa-miR-618	36.35	35.84	35.20	1	1.613	1.562	>0.10	>0.10
hsa-miR-625-3p	34.95	34.64	35.16	1	1.160	0.769	>0.10	>0.10
hsa-miR-627-5p	33.89	33.47	34.04	1	1.244	0.798	>0.10	>0.10
hsa-miR-628-3p	32.30	32.78	32.78	1	0.667	0.636	>0.10	>0.10
hsa-miR-628-5p	33.28	33.80	33.60	1	0.650	0.713	>0.10	>0.10
hsa-miR-629-3p	33.73	33.07	33.38	1	1.469	1.136	>0.10	>0.10
hsa-miR-629-5p	30.75	30.99	30.60	1	0.789	0.989	>0.10	>0.10
hsa-miR-632	35.99	34.85	35.54	1	2.074	1.211	0.0923	>0.10
hsa-miR-641	37.58	36.35	37.36	1	2.189	1.037	>0.10	>0.10
hsa-miR-642a-5p	36.22	35.99	35.43	1	1.094	1.541	>0.10	>0.10
hsa-miR-651-5p	33.88	33.41	33.70	1	1.295	1.012	>0.10	>0.10
hsa-miR-652-3p	28.36	27.79	27.73	1	1.382	1.374	>0.10	>0.10
hsa-miR-660-5p ^{4cX}	27.23	27.50	27.25	1	0.775	0.875	>0.10	>0.10
hsa-miR-663a	30.95	30.90	30.84	1	0.963	0.960	>0.10	>0.10
hsa-miR-664a-3p	29.92	29.91	30.01	1	0.937	0.837	>0.10	>0.10
hsa-miR-671-3p	32.06	32.29	32.06	1	0.795	0.891	0.0785	>0.10
hsa-miR-671-5p	33.68	33.41	34.00	1	1.130	0.715	>0.10	>0.10
hsa-miR-708-5p	33.84	35.32	33.17	1	0.332	1.409	>0.10	>0.10
hsa-miR-7-1-3p	28.72	28.90	28.71	1	0.824	0.898	>0.10	>0.10
hsa-miR-744-3p	32.83	32.98	32.47	1	0.843	1.141	>0.10	>0.10
hsa-miR-744-5p	29.88	29.71	29.59	1	1.048	1.088	>0.10	>0.10
hsa-miR-7-5p	31.11	30.85	30.43	1	1.127	1.436	>0.10	>0.10
hsa-miR-766-3p	30.72	30.88	30.15	1	0.833	1.321	>0.10	>0.10
hsa-miR-769-5p	30.76	30.45	30.45	1	1.154	1.106	>0.10	>0.10
hsa-miR-873-5p	36.50	40.00	40.00	1	0.082**	0.079**	0.0026	0.0037

Continued

Supplementary Table SIV *Continued*

miRNA	Average Cp _{Nz}	Average Cp _{OA}	Average Cp _{SA}	miRNA expression			P-value	
				Nz	OA	SA	OA-Nz	SA-Nz
hsa-miR-877-3p	36.07	35.96	36.62		0.859	0.596	>0.10	>0.10
hsa-miR-877-5p	32.02	32.15	32.09		0.744	0.847	>0.10	>0.10
hsa-miR-885-3p	34.13	34.19	34.43		0.831	0.708	>0.10	>0.10
hsa-miR-887-3p	35.66	35.50	34.37		0.719	2.149	>0.10	>0.10
hsa-miR-888-5p ^{6cX}	25.93	29.18	27.11		0.098*	0.391	0.0324	>0.10
hsa-miR-890 ^{6cX}	26.85	30.22	28.14		0.090*	0.363	0.0235	0.0590
hsa-miR-891a-5p	24.00	27.26	24.99		0.097*	0.448	0.0266	>0.10
hsa-miR-891b ^{6cX}	28.56	32.03	29.53		0.084*	0.455	0.0387	>0.10
hsa-miR-892a ^{6cX}	29.42	32.54	30.13		0.107*	0.544	0.0148	>0.10
hsa-miR-92a-1-5p	34.24	33.57	33.28		1.486	1.734	>0.10	0.0570
hsa-miR-92a-2-5p ^{5cX}	32.45	31.54	32.02		1.762	1.202	>0.10	>0.10
hsa-miR-92a-3p ^{5cX}	24.06	23.70	23.79		1.194	1.074	>0.10	>0.10
hsa-miR-92b-3p	34.30	33.58	34.19		1.533	0.959	>0.10	>0.10
hsa-miR-93-3p	29.70	29.46	29.38		1.095	1.107	>0.10	>0.10
hsa-miR-934	34.82	34.41	35.63		1.510	0.514	>0.10	0.0857
hsa-miR-935	39.07	37.75	37.12		2.317	3.436	>0.10	>0.10
hsa-miR-93-5p	24.61	24.71	24.30		0.872	1.102	>0.10	>0.10
hsa-miR-9-3p	35.76	40.00	40.00		0.049**	0.047*	0.0047	0.0067
hsa-miR-940	29.65	28.23	29.40		2.180	1.058	>0.10	>0.10
hsa-miR-941	30.70	30.94	30.11		0.786	1.333	>0.10	>0.10
hsa-miR-942-5p	36.01	33.93	36.48		2.748	0.654	>0.10	>0.10
hsa-miR-95-3p	30.80	31.26	30.15		0.678*	1.398	0.0489	>0.10
hsa-miR-9-5p	33.45	34.89	34.89		0.343	0.328*	0.0675	0.0199
hsa-miR-96-5p	28.31	27.40	27.38		1.750	1.694*	0.0519	0.0463
hsa-miR-98-5p	29.92	29.71	29.16		1.076	1.500	>0.10	0.0973
hsa-miR-99a-3p	28.54	28.25	28.17		1.141	1.150	>0.10	>0.10
hsa-miR-99a-5p	21.16	21.25	21.08		0.874	0.937	>0.10	>0.10
hsa-miR-99b-3p	31.54	31.68	31.56		0.847	0.875	>0.10	>0.10
hsa-miR-99b-5p	25.81	25.83	25.76		0.921	0.918	>0.10	>0.10

Statistically increased miRNA expression levels are depicted in green; statistically decreased miRNA expression levels are depicted in red, when compared with controls. Cp values >38 are depicted in bold.

*P < 0.05; **P < 0.005. Statistically significant P-values are depicted in bold (unpaired two-tailed Student's t test).