

Table S1: Overall results of miRNAs expression levels in studied population expressed in log2 transformed values

miRNAs	Controls			pre-ECP			6-months			Adjusted <i>p</i> -value	
	Median	Percentile 25	Percentile 75	Median	Percentile 25	Percentile 75	Median	Percentile 25	Percentile 75	BOS vs CTR	Pre-ECP vs 6-months
hsa-miR-155-5p	3.74	2.82	4.98	-3.19	-4.37	-2.18	-0.69	-1.97	0.48	<0.0001	<0.0001
hsa-miR-146a-5p	10.89	7.78	11.81	2.47	0.62	7.36	4.47	3.68	7.79	<0.0001	>0.9999
hsa-miR-31-5p	-2.84	-3.64	1.37	-6.02	-7.95	-2.61	-6.65	-7.69	-4.42	0.015	>0.9999
hsa-miR-21-5p	10.29	9.17	11.83	8.85	6.85	10.53	8.46	6.77	9.97	0.199	>0.9999
hsa-miR-223-5p	3.41	2.76	5.23	4.30	2.60	5.24	4.72	2.54	6.40	>0.9999	>0.9999
hsa-miR-125a-5p	3.54	2.81	3.97	3.37	2.08	5.79	4.96	2.94	6.48	>0.9999	>0.9999
hsa-miR-30b-5p	5.21	3.97	6.80	5.92	3.44	6.30	5.89	3.94	7.15	>0.9999	>0.9999
hsa-miR-24-3p	4.13	3.54	4.56	5.25	3.89	5.90	8.13	6.18	12.51	>0.9999	>0.9999
hsa-miR-98-5p	-0.44	-0.59	-0.13	1.72	-0.72	2.42	1.01	0.33	3.07	>0.9999	>0.9999
hsa-miR-99a-5p	-3.07	-3.80	-2.99	-2.33	-2.51	-1.80	-1.95	-2.67	-1.39	>0.9999	>0.9999
hsa-miR-23b-3p	7.68	6.50	9.09	7.91	6.41	9.14	2.85	2.17	6.31	>0.9999	<0.0001
hsa-miR-182-5p	1.84	1.15	2.22	-0.49	-1.83	1.39	-0.74	-1.48	1.33	>0.9999	>0.9999
hsa-miR-17-5p	7.55	6.88	8.04	5.32	1.64	6.47	4.37	1.82	6.00	0.635	>0.9999
hsa-miR-181a-3p	-4.36	-5.60	-2.45	-3.14	-3.75	-2.60	-3.17	-4.09	-2.94	>0.9999	>0.9999

Table S2. Pathways predicted by DIANA-mirPath analysis.

KEGG pathway hsa-miR-23b; hsa-miR-155	p-value	genes
TGF-beta signaling pathway	<0.00001	THBS1 SMAD3 SMAD4 SMAD5 SP1 SMAD1
Steroid biosynthesis	<0.00001	DHCR24 CYP51A1
Adherens junction	0.0003	MET CTNND1 SMAD3 EGFR TJP1 SMAD4 CTNNB1 PTPRJ
Hippo signaling pathway	0.0007	YWHAE PPP1CC SMAD3 MPP5 CCND1 SMAD4 CTNNB1 MOB1A SMAD1 PPP1CB
FoxO signaling pathway	0.0007	STAT3 PCK2

		SMAD3 EGFR CCND1 SMAD4 FOXO3 PLK1 SGK3 MDM2
ECM-receptor interaction	0.0011	ITGB1 THBS1 COL4A2
Hepatitis B	0.0013	STAT3 SMAD3 BCL2 MAVS MYD88 CCND1 SMAD4 E2F3
Apoptosis	0.0065	BCL2 MYD88 MAP3K14 TNFRSF10B PRKAR1A XIAP
Non-small cell lung cancer	0.0065	EML4 EGFR CCND1 E2F3 FOXO3
Proteoglycans in cancer	0.007	STAT3 MET ITGB1 THBS1 PPP1CC EGFR CCND1 CTNNB1 MDM2 PPP1CB
Signaling pathways regulating pluripotency of stem cells	0.0324	STAT3 SMAD3 SMAD4 CTNNB1 SMAD5 IL6ST SMAD1
Colorectal cancer	0.0324	SMAD3 BCL2 CCND1 SMAD4 CTNNB1

Pathways in cancer	0.034	STAT3
		MET
		ITGB1
		SMAD3
		BCL2
		EGFR
		CCND1
		SMAD4
		CTNNB1
		COL4A2
		E2F3
		MDM2
		XIAP
Endometrial cancer	0.034	EGFR
		CCND1
		CTNNB1
		FOXO3
Bladder cancer	0.0351	THBS1
		EGFR
		CCND1
		E2F3
		MDM2