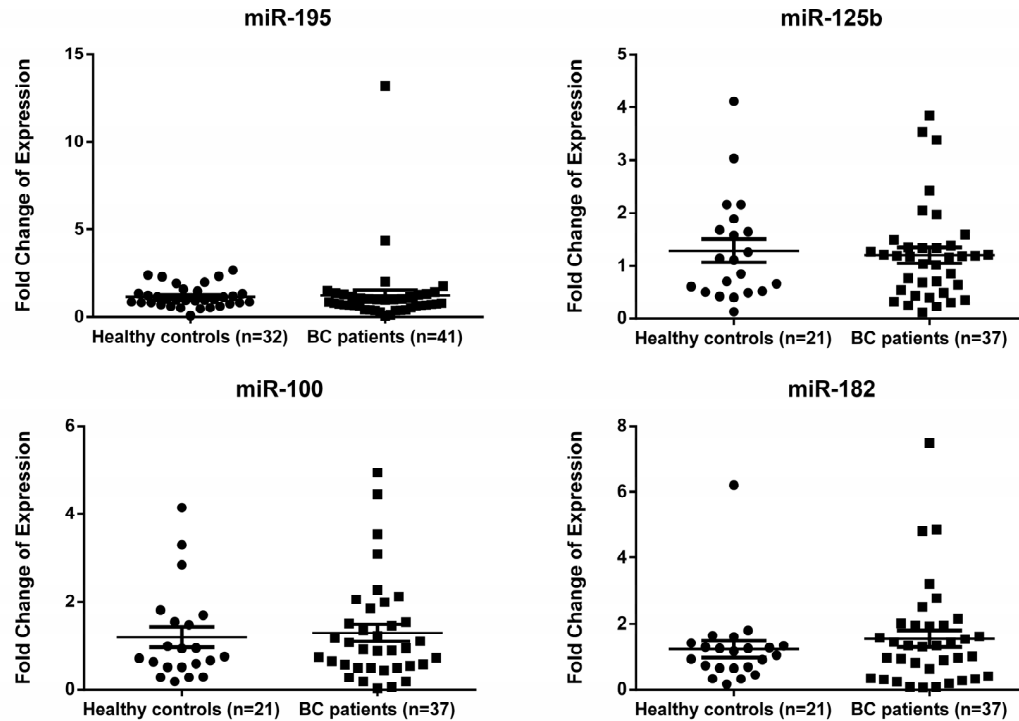


Mode of Dysregulation	↑ miR-21		↑ miR-155		↑ miR-23a		↑ miR-130a		↑ miR-145		↑ miR-425-5p		↑ miR-139-5p		↓ miR-451		▬ miR-195		▬ miR-125b		▬ miR-100		▬ miR-182	
Subgroups	miR-21		miR-155		miR-23a		miR-130a		miR-145		miR-425-5p		miR-139-5p		miR-451		miR-195		miR-125b		miR-100		miR-182	
Characteristics	mean	p-value	mean	p-value	mean	p-value	mean	p-value	mean	p-value	mean	p-value	mean	p-value	mean	p-value	mean	p-value	mean	p-value	mean	p-value	mean	p-value
Menopausal Status																								
Premenopausal	3.517	0.883	1.802	0.282	2.689	0.479	9.118	0.435	11.59	0.433	3.900	0.163	7.468	0.257	0.914	0.082	4.947	0.979	1.215	0.922	1.821	0.513	0.914	0.245
Postmenopausal	3.708		0.779		3.034		10.89		11.64		5.089		10.34		0.696		5.720		1.261		1.279		0.696	
BMI																								
Normal weight	3.459	0.961	1.662	0.286	2.490	0.136	10.40	0.518	12.41	0.831	4.337	0.438	8.505	0.600	0.869	<u>0.027</u>	4.704	0.722	1.137	0.737	1.651	0.750	1.603	0.678
Overweight/Obese	3.909		0.751		3.440		10.46		1.47		5.045		10.19		0.635		6.395		1.408		1.467		1.779	
Family Hx of BC																								
No	3.922	0.295	1.145	<u>0.010</u>	3.295	0.140	11.82	0.088	13.58	0.116	5.446	0.068	11.22	0.105	0.708	0.264	5.924	0.161	1.168	0.293	1.950	<u>0.028</u>	1.895	0.101
Yes	3.240		0.636		2.352		6.365		9.312		3.550		6.603		0.899		4.682		11.22		1.039		1.362	
Cigarette Smoking																								
No	3.79	0.648	1.349	0.211	3.400	0.056	10.30	0.172	11.70	0.508	5.019	0.374	9.783	0.741	0.721	0.051	5.668	0.551	1.271	0.742	1.664	0.144	1.785	0.569
Yes	3.218		0.748		1.892		8.209		12.13		3.911		8.186		0.930		4.606		1.225		1.228		1.451	
Waterpipe Smoking																								
No	3.526	0.350	1.187	0.776	2.665	<u>0.028</u>	9.327	0.068	11.90	0.372	4.474	0.240	9.268	0.559	0.831	<u>0.005</u>	5.072	0.252	1.290	0.665	1.473	0.115	1.702	0.717
Yes	4.620		0.868		4.631		11.71		11.42		5.963		9.461		0.529		7.889		1.055		1.949		1.505	
Alcohol Intake																								
No	3.943	0.423	1.319	0.134	3.345	0.134	10.21	0.327	11.51	0.699	4.971	0.524	9.655	0.721	0.818	0.929	6.076	0.286	1.339	0.186	1.556	0.782	1.758	0.647
Yes	3.000		0.717		1.888		8.251		12.68		3.925		8.359		0.726		3.888		1.045		1.456		1.485	
History of OCP Use																								
No	3.508	0.905	0.806	0.298	3.207	0.272	9.406	0.772	14.32	0.275	4.483	0.566	11.06	0.486	0.757	0.587	4.400	0.431	1.234	0.440	1.681	0.892	1.617	0.755
Yes	3.706		1.516		2.659		9.472		9.775		4.483		7.759		0.815		6.067		1.246		1.417		1.660	
History of HRT Use																								
No	3.429	0.480	1.217	0.938	2.752	0.531	8.606	0.445	12.22	0.805	4.880	0.454	9.063	0.631	0.776	0.665	5.348	0.985	1.286	0.783	1.435	0.691	1.684	0.807
Yes	4.383		1.256		3.394		12.70		9.024		3.267		9.244		0.849		5.518		1.047		1.871		1.474	
Histological Grade																								
G1	3.820	0.878	1.633	0.543	2.957	0.967	9.639	0.870	11.42	0.944	4.585	0.703	8.000	0.697	0.785	0.889	5.584	0.939	1.148	0.123	1.523	0.916	1.812	0.858
G2	3.511		0.999		2.798		11.96		12.75		4.053		11.40		0.797		5.566		1.680		1.770		1.611	
G3	2.981		0.770		2.948		7.326		10.67		5.455		6.777		0.724		4.433		0.744		0.990		1.298	
Tumor Size																								
T1	2.996	0.053	0.908	0.591	2.650	0.266	7.492	0.066	8.983	<u>0.023</u>	3.453	0.087	8.960	0.648	0.818	0.484	4.137	<u>0.013</u>	1.368	0.427	1.428	0.295	1.326	0.139
T2	4.570		1.815		3.335		15.29		17.11		6.912		9.382		0.679		7.566		0.977		1.729		2.363	
Lymph-node Involvement																								
No	3.878	0.387	1.471	0.788	3.135	0.539	8.461	0.852	12.20	0.530	4.839	0.401	9.387	0.355	0.732	0.451	5.772	0.572	1.215	0.679	1.685	0.287	1.643	0.605
Yes	3.167		0.824		2.625		13.62		11.22		4.211		9.066		0.848		4.870		1.187		1.153		1.731	

Supplementary Table S1. Fold change of expression of the studied miRNA in plasma of Lebanese early stage BC patients sub-grouped into different clinical and histopathological presentations. p -value was calculated using Mann-Whitney U or Kruskal-Wallis nonparametric tests. Kruskal-Wallis test was used in case of having more than 2 groups in one clinicopathological category such as histological grade. Highlighted values point to significant p -value (p -value < 0.05). – denotes non-significantly dysregulated miRNA.



Supplementary Figure S1. Fold change of expression of the non-significantly dysregulated miRNA in the plasma of Lebanese women with early stage BC as compared to healthy controls. The plots represent the mean (middle line) and the standard error of mean (error bars). p -value > 0.05 according to Wilcoxon's signed-rank test.