

Supplementary material

Increased miR-142 levels in plasma and atherosclerotic plaques from peripheral artery disease patients with post-surgery cardiovascular events

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Table S1. Bivariate Spearman nonparametric correlations between plaque miRNAs, plaque pri-miRNAs and plaque *Dicer* and *Drosha* mRNA expressions.

Parameter	Spearman correlation	Plaque miR-223	Plaque miR-92a	Plaque miR-142	Plaque miR-155
Plaque pri-miR-142	<i>R</i>	0.452	-0.278	0.837**	0.705**
	<i>p</i> value	0.091	0.297	3.53 x10 ⁻⁴	0.007
Plaque pri-miR-223	<i>R</i>	0.493	-0.374	0.814**	0.448
	<i>p</i> value	0.062	0.154	7.02 x10 ⁻⁴	0.108
Plaque pri-miR-155	<i>R</i>	0.366	-0.375	0.843**	0.566**
	<i>p</i> value	0.179	0.152	2.96 x10 ⁻⁴	0.035
Plaque pri-miR-92a	<i>R</i>	0.125	-0.223	0.396	0.236
	<i>p</i> value	0.644	0.389	0.161	0.416
Plaque <i>Drosha</i> mRNA	<i>R</i>	-0.186	-0.003	0.391	0.227
	<i>p</i> value	0.508	0.991	0.187	0.434
Plaque <i>DICER</i> mRNA	<i>R</i>	0.023	-0.337	0.348	0.457
	<i>p</i> value	0.934	0.202	0.243	0.100
Parameter	Spearman correlation	Plaque pri-miR-223	Plaque pri-miR-92a	Plaque pri-miR-142	Plaque pri-miR-155
Plaque <i>Drosha</i> mRNA	<i>R</i>	0.777***	0.965***	0.444	0.912***
	<i>p</i> value	3.9 x10 ⁻⁴	1.47 x10 ⁻⁹	0.096	8.61 x10 ⁻⁷
Plaque <i>Dicer</i> mRNA	<i>R</i>	0.274	0.095	0.054	0.108
	<i>p</i> value	0.305	0.725	0.846	0.688

p* <0.05, *p* <0.01, *** *p* <0.001

Table S2. Bivariate Spearman's nonparametric correlations between plasma miRNAs levels and main clinical and biochemical parameters.

Parameter	Spearman correlation	Plasma miR-142	Plasma miR-223	Plasma miR-155	Plasma miR-92a
Age	<i>R</i>	-0.328*	-0.080	-0.139	-0.261
	<i>p</i> value	0.044	0.591	0.406	0.076
BMI	<i>R</i>	-0.263	0.075	-0.236	-0.153
	<i>p</i> value	0.291	0.740	0.345	0.485
TC	<i>R</i>	0.163	-0.146	-0.029	0.148
	<i>p</i> value	0.365	0.350	0.873	0.350
TG	<i>R</i>	0.186	-0.369*	-0.014	-0.064
	<i>p</i> value	0.299	0.015	0.937	0.683
Glucose	<i>R</i>	-0.216	-0.143	-0.177	-0.211
	<i>p</i> value	0.207	0.343	0.302	0.164
LDL-C	<i>R</i>	0.050	-0.100	-0.068	0.163
	<i>p</i> value	0.780	0.517	0.704	0.290
HDL-C	<i>R</i>	0.334	-0.138	0.208	0.097
	<i>p</i> value	0.053	0.379	0.239	0.539
APOA-I	<i>R</i>	-0.127	-0.152	0.063	-0.229
	<i>p</i> value	0.468	0.332	0.718	0.139
APOE	<i>R</i>	-0.077	0.016	-0.206	0.008
	<i>p</i> value	0.653	0.917	0.228	0.959
APOA-I/APOE ratio	<i>R</i>	0.008	-0.133	0.236	-0.134
	<i>p</i> value	0.963	0.395	0.172	0.392
PON1	<i>R</i>	0.111	-0.141	0.08	0.097
	<i>p</i> value	0.519	0.349	0.643	0.525
PON1 activity paraoxon	<i>R</i>	-0.174	-0.084	0.020	0.180
	<i>p</i> value	0.311	0.581	0.908	0.241
MPO	<i>R</i>	0.045	-0.206	-0.311	-0.136
	<i>p</i> value	0.796	0.174	0.065	0.372
MPO activity	<i>R</i>	0.063	-0.275	-0.123	-0.289
	<i>p</i> value	0.735	0.095	0.517	0.083
CP	<i>R</i>	0.038	-0.039	-0.194	-0.032
	<i>p</i> value	0.824	0.799	0.257	0.839
CRP	<i>R</i>	0.234	-0.181	-0.034	0.002
	<i>p</i> value	0.349	0.420	0.893	0.993
LDH	<i>R</i>	0.493**	0.318	-0.003	0.066
	<i>p</i> value	0.008	0.067	0.987	0.719

BMI, body mass index; TC, total cholesterol; TG, triglycerides; LDL-C, LDL-cholesterol; HDL-C, HDL-cholesterol; APOA-I, apolipoprotein A-I; APOE, apolipoprotein E; PON1, paraoxonase 1; MPO, myeloperoxidase; CP, ceruloplasmin; CRP, C-reactive protein; LDH, lactate dehydrogenase. * $p < 0.05$, ** $p < 0.01$.

Table S3. Primer sequences used for gene expression analysis by real-time PCR in atherosclerotic plaques from femoral arteries of PAD patients.

Gene	Primer sequence 5'-3'	Gene ID	Amplicon size (bp)
<i>DICER</i>	Forward 5'-TTAACCTTTTGGTGTTTGATGAGTGT-3'	NM_177438.2	94
	Reverse 5'-GGACATGATGGACAATTTTCACA-3'		
<i>DROSHA</i>	Forward 5'-CATGTCACAGAATGTCGTTCCA-3'	NM_013235.4	115
	Reverse 5'-GGGTGAAGCAGCCTCAGATTT-3'		
<i>18S</i>	Forward 5'-CTACCACATCCAAGGAAGGCA-3'	NR_003286.2	71
	Reverse 5'-TTTTTCGTCACTACCTCCCCG-3'		