

Supplemental Table 2. Significantly regulated miRNAs in septic shock patients detected by NGS.

	miRNA	Log₂FC^a	Padj^b
Upregulated in exosomes			
	^d hsa-miR-21-3p	1.60	0.0314
	hsa-miR-499a-5p	1.93	0.0152
	^d hsa-miR-125b-5p	1.94	0.0425
	hsa-miR-424-5p	2.02	0.0092
	<i>hsa-miR-542-3p</i>	2.19	0.0146
	hsa-miR-378a-5p	2.35	0.0321
	^d <i>hsa-miR-30e-5p</i>	2.48	0.0343
	<i>hsa-miR-497-5p</i>	2.49	0.0039
	^d <i>hsa-miR-148a-5p</i>	2.58	0.0057
	^d hsa-miR-30a-3p	2.59	0.0068
	^c <i>hsa-miR-100-5p</i>	2.72	0.0156
	<i>hsa-miR-30d-3p</i>	2.75	0.0111
	<i>hsa-miR-335-5p</i>	2.76	0.0029
	^c <i>hsa-miR-3591-3p</i>	2.78	0.0257
	<i>hsa-miR-375</i>	2.83	0.0251
	hsa-miR-34a-5p	2.88	0.0216
	^f hsa-miR-122-5p	2.94	0.0184
	<i>hsa-miR-125b-2-3p</i>	3.02	0.0146
	<i>hsa-miR-95-3p</i>	3.06	5.25E-03
	<i>hsa-miR-885-5p</i>	3.29	9.28E-03

	<i>^chsa-miR-193a-5p</i>	3.40	3.74E-04
	^c hsa-miR-99a-5p	3.46	4.49E-03
	hsa-miR-146b-3p	3.54	9.62E-03
	hsa-miR-193b-5p	3.62	4.48E-03
	^c hsa-miR-210-3p	3.62	2.07E-03
	<i>^chsa-miR-378d</i>	3.70	2.88E-03
	<i>^dhsa-miR-148a-3p</i>	3.84	2.07E-03
	<i>hsa-miR-548ah-3p</i>	3.84	4.49E-03
	<i>^chsa-miR-378c</i>	3.94	1.68E-03
	^d hsa-miR-194-5p	3.99	3.26E-03
	^f hsa-miR-27b-3p	3.99	2.07E-03
	^f hsa-miR-21-5p	4.00	1.67E-03
	^c hsa-miR-30a-5p	4.46	6.10E-04
	<i>^chsa-miR-452-5p</i>	5.63	7.45E-06
Upregulated in serum			
	^c hsa-miR-192-5p	3.21	0.0472
	<i>hsa-miR-22-3p</i>	3.34	0.0464
	<i>^chsa-miR-100-5p</i>	3.46	0.0343
	<i>^chsa-miR-3591-3p</i>	3.60	0.0464
	^f hsa-miR-122-5p	3.61	0.0472
	<i>^chsa-miR-193a-5p</i>	3.63	0.0003
	<i>hsa-miR-619-5p</i>	3.64	0.0245
	^c hsa-miR-99a-5p	3.65	0.0245
	^c hsa-miR-21-5p	3.83	0.0312

	^c hsa-miR-210-3p	3.88	0.0024
	^c hsa-miR-30a-5p	3.96	0.0120
	^f hsa-miR-27b-3p	4.03	0.0207
	hsa-miR-378a-3p	4.07	0.0028
	^c <i>hsa-miR-378d</i>	4.23	0.0080
	<i>hsa-miR-4488</i>	4.31	0.0017
	^c <i>hsa-miR-378c</i>	4.45	0.0050
	^c <i>hsa-miR-452-5p</i>	6.06	4.09E-04
Upregulated in blood cells			
	hsa-miR-330-3p	1.01	0.0325
	hsa-miR-23a-3p	1.14	0.0205
	hsa-miR-106b-3p	1.17	0.0264
	hsa-miR-421	1.20	0.0256
	<i>hsa-miR-532-5p</i>	1.22	0.0084
	<i>hsa-miR-7-5p</i>	1.23	0.0186
	hsa-miR-103a-3p	1.23	0.0353
	<i>hsa-miR-339-3p</i>	1.27	0.0350
	<i>hsa-miR-4677-3p</i>	1.27	0.0184
	<i>hsa-miR-4690-3p</i>	1.28	0.0410
	hsa-miR-106b-5p	1.29	0.0141
	<i>hsa-miR-3688-3p</i>	1.30	0.0258
	<i>hsa-miR-3909</i>	1.32	0.0045
	<i>hsa-miR-183-5p</i>	1.38	0.0296
	<i>hsa-miR-581</i>	1.43	0.0220

	hsa-miR-181a-3p	1.43	0.0052
	<i>hsa-miR-340-3p</i>	<i>1.44</i>	<i>0.0144</i>
	hsa-miR-16-5p	1.49	0.0095
	hsa-miR-503-5p	1.53	0.0100
	hsa-let-7g-5p	1.55	0.0233
	^d hsa-miR-21-3p	1.56	0.0307
	hsa-let-7f-5p	1.57	0.0073
	hsa-miR-98-5p	1.59	0.0182
	hsa-miR-15b-3p	1.61	0.0003
	hsa-miR-30e-3p	1.61	0.0009
	<i>hsa-miR-10b-5p</i>	<i>1.63</i>	<i>0.0002</i>
	<i>hsa-miR-142-5p</i>	<i>1.65</i>	<i>0.0042</i>
	hsa-miR-182-5p	1.66	0.0011
	^f hsa-miR-21-5p	1.71	0.0054
	<i>hsa-miR-362-5p</i>	<i>1.74</i>	<i>0.0070</i>
	hsa-miR-146b-5p	1.78	0.0014
	<i>hsa-miR-3074-5p</i>	<i>1.79</i>	<i>0.0070</i>
	<i>hsa-miR-144-5p</i>	<i>1.81</i>	<i>0.0353</i>
	<i>hsa-miR-152-3p</i>	<i>1.85</i>	<i>0.0016</i>
	^d hsa-miR-30a-3p	1.87	1.01E-04
	^d <i>hsa-miR-30e-5p</i>	<i>1.88</i>	<i>3.15E-04</i>
	<i>hsa-miR-99b-5p</i>	<i>1.95</i>	<i>0.0212</i>
	<i>hsa-miR-1248</i>	<i>1.96</i>	<i>0.0049</i>
	^e hsa-miR-192-5p	1.99	3.69E-04
	^e hsa-miR-223-3p	1.99	0.0025

	hsa-miR-24-3p	2.04	0.0014
	hsa-miR-148b-3p	2.06	6.13E-05
	hsa-miR-15b-5p	2.07	0.0020
	<i>hsa-miR-660-5p</i>	2.09	4.03E-05
	^d hsa-miR-194-5p	2.09	1.57E-05
	hsa-miR-96-5p	2.10	3.33E-03
	<i>hsa-miR-618</i>	2.12	3.04E-03
	hsa-miR-1290	2.16	2.79E-03
	<i>hsa-miR-769-5p</i>	2.16	2.50E-03
	<i>hsa-miR-363-3p</i>	2.19	3.74E-04
	hsa-miR-451a	2.22	7.08E-07
	^f hsa-miR-27b-3p	2.22	0.0230
	^e hsa-miR-26a-5p	2.27	2.75E-05
	<i>hsa-miR-450a-5p</i>	2.27	1.49E-04
	hsa-miR-145-5p	2.29	0.0027
	hsa-miR-19b-3p	2.29	3.89E-04
	<i>hsa-miR-548o-3p</i>	2.31	4.81E-05
	hsa-miR-29b-3p	2.33	1.49E-04
	<i>hsa-miR-1246</i>	2.34	4.71E-04
	^d <i>hsa-miR-148a-5p</i>	2.36	0.0014
	hsa-miR-29a-3p	2.43	1.23E-06
	hsa-miR-142-3p	2.47	0.0025
	hsa-miR-215-5p	2.54	6.59E-06
	^d hsa-miR-374b-5p	2.78	2.71E-06
	hsa-miR-19a-3p	3.11	1.64E-05

	hsa-let-7a-3p	3.19	2.71E-06
	hsa-let-7f-2-3p	3.28	2.75E-05
	^d <i>hsa-miR-148a-3p</i>	3.41	2.39E-09
	<i>hsa-miR-548e-3p</i>	3.47	2.31E-07
	^f hsa-miR-122-5p	3.59	2.15E-05
	<i>hsa-miR-340-5p</i>	3.89	2.24E-11
	hsa-miR-143-3p	4.45	1.76E-14
	<i>hsa-miR-199b-5p</i>	5.12	1.01E-14
	<i>hsa-miR-582-3p</i>	6.25	4.67E-15
Downregulated in exosomes			
	^c <i>hsa-miR-4448</i>	-4.36	2.38E-04
	^f hsa-let-7b-5p	-3.52	7.45E-06
	<i>hsa-miR-323b-3p</i>	-3.35	0.0065
	^f hsa-let-7d-5p	-3.35	0.0049
	<i>hsa-miR-4497</i>	-3.20	0.0065
	<i>hsa-miR-654-3p</i>	-3.15	0.0185
	<i>hsa-miR-543</i>	-2.83	0.0314
	^d <i>hsa-miR-370-3p</i>	-2.81	0.0407
	<i>hsa-miR-409-3p</i>	-2.41	0.0040
	^f <i>hsa-miR-423-5p</i>	-2.38	9.48E-04
	^c <i>hsa-miR-3184-3p</i>	-2.35	0.0021
	<i>hsa-miR-432-5p</i>	-2.27	0.0274
	<i>hsa-miR-4792</i>	-2.27	0.0188
	<i>hsa-miR-493-5p</i>	-2.25	0.0201

	^d hsa-miR-342-5p	-2.21	0.0093
	^d hsa-let-7c-5p	-2.04	0.0041
	^chsa-miR-744-5p	-1.94	0.0057
	^d hsa-let-7a-5p	-1.93	0.0333
	hsa-let-7e-5p	-1.91	0.0403
	^d hsa-miR-342-3p	-1.86	0.0400
	^d hsa-miR-374b-5p	-1.82	0.0045
	hsa-miR-18a-5p	-1.79	0.0212
	^c hsa-miR-26b-5p	-1.49	0.0120
	^dhsa-miR-320a	-1.44	0.0138
Downregulated in serum			
	^fhsa-miR-423-5p	-3.78	3.44E-06
	^f hsa-let-7d-5p	-3.45	0.0058
	^e hsa-miR-223-3p	-3.23	0.0024
	^chsa-miR-4448	-3.17	0.0472
	hsa-miR-199a-5p	-3.04	0.0274
	^f hsa-let-7b-5p	-3.04	2.98E-04
	^e hsa-miR-26a-5p	-2.71	0.0233
	^c hsa-miR-26b-5p	-2.56	0.0336
	^chsa-miR-744-5p	-2.45	0.0245
	^chsa-miR-3184-3p	-1.85	0.0419
Downregulated in blood cells			
	hsa-miR-485-3p	-2.95	0.0025

	<i>hsa-miR-16-2-3p</i>	-2.82	2.97E-11
	^f hsa-let-7b-5p	-2.74	1.58E-04
	hsa-miR-150-5p	-2.33	2.71E-06
	<i>hsa-miR-4732-3p</i>	-2.25	4.68E-09
	hsa-let-7i-5p	-2.22	4.00E-03
	<i>hsa-miR-3605-3p</i>	-2.19	2.31E-07
	<i>hsa-miR-3615</i>	-2.19	4.63E-06
	<i>hsa-miR-6833-3p</i>	-2.18	1.32E-04
	hsa-miR-574-5p	-2.13	2.15E-05
	<i>hsa-miR-4685-3p</i>	-2.12	1.00E-03
	<i>hsa-miR-1275</i>	-2.10	6.42E-04
	<i>hsa-miR-6803-3p</i>	-2.06	3.01E-04
	<i>hsa-miR-1306-5p</i>	-2.04	0.0101
	<i>hsa-miR-6511a-3p</i>	-2.00	7.15E-05
	<i>hsa-miR-3940-3p</i>	-1.98	0.0116
	hsa-miR-92b-3p	-1.96	2.50E-03
	<i>hsa-miR-6857-3p</i>	-1.94	0.0016
	<i>hsa-miR-326</i>	-1.93	4.35E-05
	<i>hsa-miR-320d</i>	-1.92	4.36E-05
	<i>hsa-miR-6747-3p</i>	-1.92	1.70E-05
	<i>hsa-miR-4301</i>	-1.92	1.95E-03
	^d <i>hsa-miR-320a</i>	-1.90	3.29E-06
	<i>hsa-miR-328-3p</i>	-1.90	8.02E-06
	<i>hsa-miR-6511b-3p</i>	-1.89	1.33E-04
	hsa-miR-3173-5p	-1.87	4.52E-07

	<i>hsa-miR-320b</i>	-1.85	<i>6.59E-06</i>
	hsa-miR-210-5p	-1.84	2.23E-03
	<i>hsa-miR-6786-3p</i>	-1.80	<i>2.39E-04</i>
	hsa-miR-92a-3p	-1.75	2.53E-03
	<i>hsa-miR-1976</i>	-1.75	<i>1.51E-04</i>
	hsa-miR-486-5p	-1.73	4.03E-05
	<i>hsa-miR-636</i>	-1.71	<i>6.45E-05</i>
	<i>hsa-miR-6741-3p</i>	-1.71	<i>9.48E-04</i>
	<i>hsa-miR-766-3p</i>	-1.68	<i>0.0107</i>
	^d hsa-let-7a-5p	-1.64	0.0217
	<i>hsa-miR-320c</i>	-1.64	<i>7.19E-05</i>
	<i>hsa-miR-4732-5p</i>	-1.63	<i>0.0230</i>
	<i>hsa-miR-6131</i>	-1.62	<i>0.0126</i>
	<i>hsa-miR-942-5p</i>	-1.61	<i>0.0011</i>
	^d hsa-miR-342-3p	-1.56	0.0207
	^d hsa-miR-342-5p	-1.53	0.0263
	^f hsa-let-7d-5p	-1.48	0.0215
	hsa-miR-126-3p	-1.48	0.0346
	^d hsa-let-7c-5p	-1.46	0.0480
	<i>hsa-miR-574-3p</i>	-1.44	<i>0.0042</i>
	<i>hsa-miR-5010-3p</i>	-1.42	<i>0.0095</i>
	^d hsa-miR-125b-5p	-1.41	0.0182
	<i>hsa-miR-1249-3p</i>	-1.38	<i>0.0019</i>
	<i>hsa-miR-6783-3p</i>	-1.30	<i>0.0058</i>
	<i>hsa-miR-937-3p</i>	-1.29	<i>0.0081</i>

	hsa-miR-93-3p	-1.29	0.0052
	^d <i>hsa-miR-370-3p</i>	-1.20	0.0295
	hsa-miR-18a-3p	-1.17	7.74E-04
	<i>hsa-miR-2110</i>	-1.13	0.0122
	<i>hsa-miR-532-3p</i>	-1.12	0.0045
	<i>hsa-miR-6842-3p</i>	-1.08	0.0180
	^f <i>hsa-miR-423-5p</i>	-1.06	0.0106
	<i>hsa-miR-296-5p</i>	-1.02	0.0084

^aLog₂ fold change (Log₂FC) of $\geq |1|$; ^badjusted p-value (P_{adj}) of ≤ 0.05 ; ^cmiRNA only present extracellularly in exosome and serum; ^dmiRNA present in exosome and blood cells; ^emiRNA present in serum and blood cells; ^fmiRNA present in all three matrices; bold italic: newly identified sepsis-associated miRNA candidates