Table SI. Expression profile of miRNAs in dermatomyositis (DM)skin as measured with the PCR array

Up-regulated miRNAs in DM skin miR-142-3pmiR-206 $0.917$ $16.912$ miR-206 $0.917$ $16.912$ miR-302c $<0.001$ $0.001$ miR-370 $0.005$ $0.399$ miR-503 $0.006$ $0.060$ Down-regulated miRNAs in DM skin $let-7d$ $0.055$ let-7d $0.012$ $0.001$ let-7f $0.012$ $0.001$ let-7f $0.012$ $0.006$ miR-7 $0.037$ NDmiR-10a $0.498$ NDmiR-17 $0.459$ NDmiR-18a $0.044$ $0.001$ miR-20b $0.043$ NDmiR-22 $0.874$ NDmiR-133a $0.862$ $<0.001$ miR-141 $0.345$ NDmiR-142-5p $0.006$ NDmiR-146a $0.815$ $<0.001$ miR-192 $0.067$ NDmiR-194 $0.068$ NDmiR-223 $0.898$ ND	Fold-change	Normal	DM
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Up-regulated miRNAs in DM skin		
$\begin{array}{c ccccc} {\rm miR-302c} & <0.001 & 0.001 \\ {\rm miR-370} & 0.005 & 0.039 \\ {\rm miR-503} & 0.006 & 0.060 \\ \hline \\ {\rm Down-regulated miRNAs in DM skin} \\ {\rm let-7d} & 0.055 & {\rm ND} \\ {\rm let-7e} & 0.455 & {\rm ND} \\ {\rm let-7f} & 0.012 & 0.001 \\ {\rm let-7i} & 0.572 & 0.006 \\ {\rm miR-7} & 0.037 & {\rm ND} \\ {\rm miR-10a} & 0.498 & {\rm ND} \\ {\rm miR-18a} & 0.044 & 0.001 \\ {\rm miR-20a} & 0.681 & {\rm ND} \\ {\rm miR-20b} & 0.043 & {\rm ND} \\ {\rm miR-33a} & 0.060 & {\rm ND} \\ {\rm miR-33a} & 0.060 & {\rm ND} \\ {\rm miR-103} & 0.862 & <0.001 \\ {\rm miR-103} & 0.862 & <0.001 \\ {\rm miR-137} & 0.002 & <0.001 \\ {\rm miR-146a} & 0.815 & <0.001 \\ {\rm miR-146b-5p} & 0.530 & {\rm ND} \\ {\rm miR-194} & 0.068 & {\rm ND} \\ {\rm miR-208} & 0.003 & <0.001 \\ {\rm miR-194} & 0.003 & <0.001 \\ {\rm miR-208} & 0.003 & <0.001 \\ {\rm miR-222} & 0.300 & {\rm ND} \\ {\rm miR-222} & 0.300 & {\rm ND} \\ {\rm miR-1222} & 0.300 & {\rm ND} \\ {\rm miR-222} & 0.300 & {\rm ND} \\ {\rm miR-192} & 0.001 \\ {\rm miR-192} & 0.003 & <0.001 \\ {\rm miR-222} & 0.300 & {\rm ND} \\ {\rm miR-222} & 0.001 \\ {\rm miR-222} & 0.300 & {\rm ND} \\ {\rm miR-222} & 0.300 & {\rm ND} \\ {\rm miR-222} & 0.300 & {\rm ND} \\ {\rm miR-222} & 0.001 \\ {\rm miR-222} & 0.300 & {\rm ND} \\ {\rm miR-222} & 0.001 \\ {\rm miR-222} & 0.300 & {\rm ND} \\ {\rm miR-222} & 0.001 \\ {\rm miR-222} & 0.300 & {\rm ND} \\ {\rm miR-222} & 0.001 \\ {\rm miR-222} & 0.300 & {\rm ND} \\ {\rm miR-222} & 0.001 \\ {\rm miR-222} & 0.300 & {\rm ND} \\ {\rm miR-222} & 0.001 \\ {\rm miR-222} & 0.300 & {\rm ND} \\ {\rm miR-222} & 0.300 & {\rm ND} \\ {\rm miR-222} & 0.300 & {\rm ND} \\ {\rm miR-222} & 0.001 \\ {\rm miR-222} & 0.300 & {\rm ND} \\ {\rm miR-222} & 0.001 \\ {\rm miR-222} $		0.152	1.591
$\begin{array}{ccccccccc} miR-370 & 0.005 & 0.039 \\ miR-503 & 0.006 & 0.060 \\ \hline Down-regulated miRNAs in DM skin \\ let-7d & 0.055 & ND \\ let-7e & 0.455 & ND \\ let-7f & 0.012 & 0.001 \\ let-7i & 0.572 & 0.006 \\ miR-7 & 0.037 & ND \\ miR-10a & 0.498 & ND \\ miR-10a & 0.498 & ND \\ miR-17 & 0.459 & ND \\ miR-20a & 0.681 & ND \\ miR-20b & 0.044 & 0.001 \\ miR-20b & 0.043 & ND \\ miR-33a & 0.060 & ND \\ miR-33a & 0.060 & ND \\ miR-103 & 0.862 & <0.001 \\ miR-137 & 0.002 & <0.001 \\ miR-146a & 0.815 & <0.001 \\ miR-146a & 0.815 & <0.001 \\ miR-146b-5p & 0.530 & ND \\ miR-194 & 0.068 & ND \\ miR-208 & 0.003 & <0.001 \\ miR-208 & 0.003 & <0.001 \\ miR-194 & 0.068 & ND \\ miR-208 & 0.003 & <0.001 \\ miR-208 & 0.003 & <0.001 \\ miR-208 & 0.003 & <0.001 \\ miR-222 & 0.300 & ND \\ miR-220 & 0.001 & 0.001 \\ miR-2$	miR-206	0.917	16.912
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	miR-302c	< 0.001	0.001
Down-regulated miRNAs in DM skinlet-7d $0.055$ NDlet-7e $0.455$ NDlet-7f $0.012$ $0.001$ let-7f $0.572$ $0.006$ miR-7 $0.037$ NDmiR-10a $0.498$ NDmiR-17 $0.459$ NDmiR-20a $0.681$ NDmiR-20b $0.044$ $0.001$ miR-33a $0.060$ NDmiR-103 $0.862$ $<0.001$ miR-137 $0.002$ $<0.001$ miR-138 $0.006$ NDmiR-139 $0.862$ $<0.001$ miR-141 $0.345$ NDmiR-144 $0.006$ $<0.001$ miR-144 $0.068$ NDmiR-146a $0.815$ $<0.001$ miR-192 $0.067$ NDmiR-194 $0.068$ NDmiR-208 $0.003$ $<0.001$ miR-222 $0.300$ ND	miR-370	0.005	0.039
$\begin{array}{llllllllllllllllllllllllllllllllllll$	miR-503	0.006	0.060
let-7e $0.455$ NDlet-7f $0.012$ $0.001$ let-7f $0.572$ $0.006$ miR-7 $0.37$ NDmiR-10a $0.498$ NDmiR-17 $0.459$ NDmiR-18a $0.044$ $0.001$ miR-20a $0.681$ NDmiR-20b $0.043$ NDmiR-33a $0.060$ NDmiR-103 $0.862$ $<0.001$ miR-137 $0.002$ $<0.001$ miR-137 $0.002$ $<0.001$ miR-141 $0.345$ NDmiR-142-5p $0.530$ NDmiR-146a $0.815$ $<0.001$ miR-192 $0.067$ NDmiR-194 $0.068$ NDmiR-208 $0.003$ $<0.001$ miR-222 $0.300$ ND	Down-regulated miRNAs in DM skin		
$\begin{array}{cccccccc} let-7f & 0.012 & 0.001 \\ let-7i & 0.572 & 0.006 \\ miR-7 & 0.037 & ND \\ miR-10a & 0.498 & ND \\ miR-17 & 0.459 & ND \\ miR-18a & 0.044 & 0.001 \\ miR-20a & 0.681 & ND \\ miR-20b & 0.043 & ND \\ miR-20b & 0.043 & ND \\ miR-33a & 0.060 & ND \\ miR-33a & 0.060 & ND \\ miR-103 & 0.862 & <0.001 \\ miR-134 & 0.041 & ND \\ miR-137 & 0.002 & <0.001 \\ miR-141 & 0.345 & ND \\ miR-142-5p & 0.530 & ND \\ miR-142-5p & 0.530 & ND \\ miR-146a & 0.815 & <0.001 \\ miR-146a & 0.815 & <0.001 \\ miR-192 & 0.067 & ND \\ miR-194 & 0.068 & ND \\ miR-208 & 0.003 & <0.001 \\ miR-222 & 0.300 & ND \\ \end{array}$	let-7d	0.055	ND
$\begin{array}{cccccccc} let-7i & 0.572 & 0.006 \\ miR-7 & 0.037 & ND \\ miR-10a & 0.498 & ND \\ miR-17 & 0.459 & ND \\ miR-18a & 0.044 & 0.001 \\ miR-20a & 0.681 & ND \\ miR-20b & 0.043 & ND \\ miR-20b & 0.043 & ND \\ miR-33a & 0.060 & ND \\ miR-33a & 0.060 & ND \\ miR-103 & 0.862 & <0.001 \\ miR-134 & 0.041 & ND \\ miR-137 & 0.002 & <0.001 \\ miR-141 & 0.345 & ND \\ miR-142-5p & 0.006 & <0.001 \\ miR-146a & 0.815 & <0.001 \\ miR-146a & 0.815 & <0.001 \\ miR-192 & 0.067 & ND \\ miR-194 & 0.068 & ND \\ miR-208 & 0.003 & <0.001 \\ miR-222 & 0.300 & ND \\ \end{array}$	let-7e	0.455	ND
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	let-7f	0.012	0.001
$\begin{array}{cccccccc} miR-10a & 0.498 & ND \\ miR-17 & 0.459 & ND \\ miR-18a & 0.044 & 0.001 \\ miR-20a & 0.681 & ND \\ miR-20b & 0.043 & ND \\ miR-20b & 0.043 & ND \\ miR-33a & 0.060 & ND \\ miR-33a & 0.060 & ND \\ miR-103 & 0.862 & <0.001 \\ miR-103 & 0.862 & <0.001 \\ miR-134 & 0.041 & ND \\ miR-137 & 0.002 & <0.001 \\ miR-141 & 0.345 & ND \\ miR-142-5p & 0.006 & <0.001 \\ miR-146a & 0.815 & <0.001 \\ miR-146a & 0.815 & <0.001 \\ miR-146b-5p & 0.530 & ND \\ miR-192 & 0.067 & ND \\ miR-194 & 0.068 & ND \\ miR-208 & 0.003 & <0.001 \\ miR-222 & 0.300 & ND \\ \end{array}$	let-7i	0.572	0.006
$\begin{array}{ccccccccc} miR-17 & 0.459 & ND \\ miR-18a & 0.044 & 0.001 \\ miR-20a & 0.681 & ND \\ miR-20b & 0.043 & ND \\ miR-22 & 0.874 & ND \\ miR-33a & 0.060 & ND \\ miR-33a & 0.060 & ND \\ miR-103 & 0.862 & <0.001 \\ miR-103 & 0.862 & <0.001 \\ miR-134 & 0.041 & ND \\ miR-137 & 0.002 & <0.001 \\ miR-141 & 0.345 & ND \\ miR-142-5p & 0.006 & <0.001 \\ miR-146a & 0.815 & <0.001 \\ miR-146a & 0.815 & <0.001 \\ miR-146b-5p & 0.530 & ND \\ miR-192 & 0.067 & ND \\ miR-194 & 0.068 & ND \\ miR-208 & 0.003 & <0.001 \\ miR-222 & 0.300 & ND \\ \end{array}$	miR-7	0.037	ND
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	miR-10a	0.498	ND
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	miR-17	0.459	ND
$\begin{array}{ccccccc} miR-20b & 0.043 & ND \\ miR-20b & 0.874 & ND \\ miR-33a & 0.060 & ND \\ miR-96 & 0.086 & ND \\ miR-103 & 0.862 & <0.001 \\ miR-134 & 0.041 & ND \\ miR-137 & 0.002 & <0.001 \\ miR-141 & 0.345 & ND \\ miR-142-5p & 0.006 & <0.001 \\ miR-146a & 0.815 & <0.001 \\ miR-146b-5p & 0.530 & ND \\ miR-192 & 0.067 & ND \\ miR-194 & 0.068 & ND \\ miR-208 & 0.003 & <0.001 \\ miR-222 & 0.300 & ND \\ \end{array}$	miR-18a	0.044	0.001
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	miR-20a	0.681	ND
miR-33a0.060NDmiR-960.086NDmiR-1030.862<0.001	miR-20b	0.043	ND
miR-960.086NDmiR-1030.862<0.001	miR-22	0.874	ND
miR-1030.862<0.001miR-1340.041NDmiR-1370.002<0.001	miR-33a	0.060	ND
miR-1340.041NDmiR-1370.002<0.001	miR-96	0.086	ND
miR-1370.002<0.001miR-1410.345NDmiR-142-5p0.006<0.001	miR-103	0.862	< 0.001
miR-1410.345NDmiR-142-5p0.006<0.001	miR-134	0.041	ND
miR-142-5p 0.006 <0.001   miR-146a 0.815 <0.001	miR-137	0.002	< 0.001
miR-146a0.815<0.001miR-146b-5p0.530NDmiR-1920.067NDmiR-1940.068NDmiR-2080.003<0.001	miR-141	0.345	ND
miR-146b-5p0.530NDmiR-1920.067NDmiR-1940.068NDmiR-2080.003<0.001	miR-142-5p	0.006	< 0.001
miR-192 0.067 ND   miR-194 0.068 ND   miR-208 0.003 <0.001	miR-146a	0.815	< 0.001
miR-1940.068NDmiR-2080.003<0.001	miR-146b-5p	0.530	ND
miR-208 0.003 <0.001 miR-222 0.300 ND	miR-192	0.067	ND
miR-222 0.300 ND	miR-194	0.068	ND
	miR-208	0.003	< 0.001
miR-223 0.898 ND	miR-222	0.300	ND
	miR-223	0.898	ND
miR-378 0.911 ND	miR-378	0.911	ND
miR-424 0.191 ND	miR-424	0.191	ND

miRNA expression profile *in vivo* was evaluated using PCR array: equal amount of cDNAs reverse-transcribed from miRNAs from 3 normal skin or 3 DM skin were pooled and used in a single experiment. The raw threshold cycle (Ct) was normalized using the mean values of small RNA housekeeping genes (SNORD47 and 48). The fold-change was calculated as 1/2(Ct of each miRNA – Ct of house keeping genes). ND: not detected (no amplification by 40 cycles of PCR).