

**Table S1. miRNA expression profile in cholangiocytes following *C. parvum* infection and LPS stimulation**

miRNAs	Log <sub>2</sub> (Hy5/Hy3) ratios			
	Control (n=3)	<i>C. parvum</i> (n=3)	LPS (n=3)	Sham (n=1)
hsa-let-7d	0.318 ± 0.019	0.091 ± 0.094 <sup>b</sup>	-0.042 ± 0.056 <sup>a</sup>	0.599
hsa-let-7f	0.389 ± 0.029	0.205 ± 0.067 <sup>b</sup>	NA	0.139
hsa-let-7g	0.454 ± 0.009	0.309 ± 0.071	0.060 ± 0.018 <sup>a</sup>	0.318
hsa-let-7e	0.013 ± 0.047	-0.141 ± 0.026 <sup>a</sup>	-0.079 ± 0.066	0.535
hsa-let-7i	0.286 ± 0.090	0.058 ± 0.072 <sup>b</sup>	0.005 ± 0.187	0.077
hsa-miR-106b	0.135 ± 0.047	0.465 ± 0.317	1.176 ± 0.394 <sup>a</sup>	0.738
hsa-miR-124a	-0.450 ± 0.059	-0.601 ± 0.069	-0.690 ± 0.020 <sup>a</sup>	-0.394
hsa-miR-125b	0.082 ± 0.018	0.206 ± 0.044 <sup>a</sup>	0.332 ± 0.036 <sup>a</sup>	0.608
hsa-miR-130a	0.086 ± 0.055	0.313 ± 0.102	0.804 ± 0.276 <sup>b</sup>	0.260
hsa-miR-130b	0.195 ± 0.019	0.012 ± 0.033 <sup>a</sup>	0.002 ± 0.049 <sup>a</sup>	0.330
hsa-miR-139	-0.335 ± 0.028	-0.402 ± 0.005 <sup>b</sup>	-0.393 ± 0.032	-0.222
hsa-miR-146b	-0.042 ± 0.133	0.139 ± 0.169	0.730 ± 0.136 <sup>a</sup>	0.389
hsa-miR-155	-0.178 ± 0.025	-0.199 ± 0.041	-0.404 ± 0.038 <sup>a</sup>	-0.094
hsa-miR-15b	-0.069 ± 0.282	0.528 ± 0.299 <sup>b</sup>	0.924 ± 0.560 <sup>b</sup>	-0.045
hsa-miR-16	0.097 ± 0.163	0.512 ± 0.158 <sup>b</sup>	1.086 ± 0.353 <sup>b</sup>	0.415
hsa-miR-17-5p	0.200 ± 0.074	0.529 ± 0.198	1.156 ± 0.401 <sup>b</sup>	0.454
hsa-miR-181b	-0.234 ± 0.083	-0.305 ± 0.019	-0.436 ± 0.077	-0.229
hsa-miR-18a	0.207 ± 0.033	0.396 ± 0.161	0.863 ± 0.194 <sup>a</sup>	0.271
hsa-miR-185	-0.136 ± 0.012	-0.294 ± 0.034 <sup>a</sup>	-0.338 ± 0.113 <sup>b</sup>	-0.274
hsa-miR-195	0.197 ± 0.039	0.091 ± 0.015 <sup>b</sup>	0.076 ± 0.014 <sup>a</sup>	0.520
hsa-miR-198	-0.088 ± 0.020	-0.162 ± 0.016 <sup>b</sup>	-0.109 ± 0.038	-0.016
hsa-miR-20a	0.264 ± 0.058	0.551 ± 0.200	1.167 ± 0.406 <sup>b</sup>	0.597
hsa-miR-203	-0.207 ± 0.023	-0.345 ± 0.008 <sup>a</sup>	-0.253 ± 0.060	-0.077
hsa-miR-208	-0.145 ± 0.022	-0.187 ± 0.020	-0.359 ± 0.021	-0.145
hsa-miR-21	0.553 ± 0.104	1.015 ± 0.352 <sup>b</sup>	1.853 ± 0.535 <sup>b</sup>	0.802
hsa-miR-214	-0.046 ± 0.012	-0.167 ± 0.050 <sup>b</sup>	-0.207 ± 0.110 <sup>b</sup>	-0.009
hsa-miR-221	0.475 ± 0.070	0.159 ± 0.147 <sup>b</sup>	-0.069 ± 0.257	0.194
hsa-miR-222	0.508 ± 0.069	0.194 ± 0.200 <sup>b</sup>	0.410 ± 0.247	0.086
hsa-miR-23b	0.189 ± 0.070	0.552 ± 0.105 <sup>a</sup>	0.933 ± 0.431 <sup>b</sup>	0.332
hsa-miR-24	0.225 ± 0.119	0.468 ± 0.132 <sup>b</sup>	0.716 ± 0.371	0.583
hsa-miR-26a	-0.512 ± 0.115	-0.193 ± 0.116	0.340 ± 0.256 <sup>a</sup>	-0.472
hsa-miR-27b	-0.186 ± 0.055	0.248 ± 0.222 <sup>b</sup>	0.743 ± 0.595 <sup>b</sup>	0.213
hsa-miR-29a	0.407 ± 0.032	0.314 ± 0.185	1.269 ± 0.392 <sup>b</sup>	0.284
hsa-miR-302a*	-0.305 ± 0.027	-0.404 ± 0.016	-0.554 ± 0.041	-0.230
hsa-miR-30a-5p	-0.166 ± 0.081	0.122 ± 0.176	0.713 ± 0.401 <sup>b</sup>	0.434
hsa-miR-30c	-0.076 ± 0.074	0.272 ± 0.087 <sup>a</sup>	0.610 ± 0.296 <sup>b</sup>	0.107
hsa-miR-30b	-0.028 ± 0.039	0.254 ± 0.100 <sup>a</sup>	0.851 ± 0.384 <sup>b</sup>	0.226
hsa-miR-320	-0.013 ± 0.020	-0.271 ± 0.054 <sup>a</sup>	-0.213 ± 0.144	-0.219
hsa-miR-338	-0.297 ± 0.050	-0.457 ± 0.015 <sup>a</sup>	-0.521 ± 0.103	-0.271
hsa-miR-346	0.136 ± 0.081	-0.046 ± 0.002 <sup>b</sup>	-0.085 ± 0.140	0.178
hsa-miR-379	-0.452 ± 0.054	-0.588 ± 0.016 <sup>b</sup>	-0.537 ± 0.058	-0.295
hsa-miR-424	-0.057 ± 0.036	-0.196 ± 0.007 <sup>a</sup>	-0.195 ± 0.047	0.187
hsa-miR-452	-0.064 ± 0.021	-0.152 ± 0.038 <sup>b</sup>	-0.083 ± 0.039	0.065
hsa-miR-483	-1.377 ± 0.092	-1.349 ± 0.041	-0.882 ± 0.090 <sup>a</sup>	-1.510
hsa-miR-484	-0.863 ± 0.059	-0.874 ± 0.026	-0.467 ± 0.024 <sup>a</sup>	-0.921
hsa-miR-485-3p	-0.298 ± 0.034	-0.411 ± 0.018 <sup>b</sup>	-0.418 ± 0.040	-0.215
hsa-miR-486	-0.703 ± 0.046	-0.759 ± 0.032	-0.378 ± 0.034 <sup>a</sup>	-0.775
hsa-miR-490	0.064 ± 0.039	0.015 ± 0.069	-0.135 ± 0.075 <sup>b</sup>	0.634
hsa-miR-492	-0.041 ± 0.046	-0.042 ± 0.138	-0.228 ± 0.077 <sup>b</sup>	-0.443
hsa-miR-494	0.042 ± 0.008	-0.190 ± 0.073 <sup>a</sup>	-0.345 ± 0.266 <sup>b</sup>	-0.231

hsa-miR-500	-0.301 ±0.026	-0.395 ±0.024 <sup>b</sup>	-0.258 ±0.130	-0.221
hsa-miR-503	-0.066 ±0.023	-0.217 ±0.003 <sup>a</sup>	-0.357 ±0.222	-0.134
hsa-miR-510	0.063 ±0.017	-0.071 ±0.048	-0.121 ±0.127 <sup>b</sup>	0.326
hsa-miR-512-5p	-0.105 ±0.007	-0.156 ±0.002 <sup>b</sup>	-0.146 ±0.026	-0.149
hsa-miR-513	-0.083 ±0.057	-0.262 ±0.033 <sup>a</sup>	-0.601 ±0.458 <sup>b</sup>	-0.236
hsa-miR-516-5p	-0.126 ±0.043	-0.248 ±0.035 <sup>b</sup>	-0.204 ±0.092	0.320
hsa-miR-518c*	-0.174 ±0.003	-0.260 ±0.036 <sup>b</sup>	-0.198 ±0.096	-0.232
hsa-miR-518f*-526a	-0.159 ±0.006	-0.235 ±0.035 <sup>b</sup>	-0.171 ±0.047	-0.154
hsa-miR-519e*	-0.272 ±0.017	-0.258 ±0.016	-0.068 ±0.059 <sup>a</sup>	-0.207
hsa-miR-520d*	0.074 ±0.039	-0.060 ±0.085	-0.313 ±0.095 <sup>a</sup>	-0.057
hsa-miR-524*	0.187 ±0.050	0.117 ±0.051	-0.130 ±0.044 <sup>a</sup>	0.082
hsa-miR-526b	0.106 ±0.067	0.001 ±0.044	-0.230 ±0.038 <sup>a</sup>	0.165
hsa-miR-527	-0.040 ±0.045	-0.159 ±0.016 <sup>b</sup>	-0.124 ±0.068	0.534
hsa-miR-550	0.359 ±0.054	0.337 ±0.027	0.101 ±0.068 <sup>a</sup>	0.338
hsa-miR-557	0.060 ±0.022	-0.055 ±0.014 <sup>a</sup>	-0.014 ±0.047	0.477
hsa-miR-573	-0.144 ±0.029	-0.208 ±0.030 <sup>b</sup>	-0.104 ±0.084	-0.083
hsa-miR-583	-0.173 ±0.045	-0.280 ±0.009 <sup>b</sup>	-0.275 ±0.148	-0.178
hsa-miR-584	0.068 ±0.044	-0.046 ±0.047	-0.115 ±0.035 <sup>a</sup>	0.357
hsa-miR-588	-0.201 ±0.006	-0.184 ±0.022	-0.322 ±0.027 <sup>a</sup>	-0.145
hsa-miR-590	0.532 ±0.056	0.331 ±0.045 <sup>a</sup>	NA	0.199
hsa-miR-601	-0.059 ±0.034	-0.201 ±0.020 <sup>a</sup>	-0.330 ±0.092 <sup>a</sup>	0.382
hsa-miR-603	-0.224 ±0.053	-0.301 ±0.030	-0.420 ±0.006 <sup>a</sup>	-0.137
hsa-miR-608	-0.023 ±0.058	-0.178 ±0.040 <sup>b</sup>	-0.381 ±0.124	0.038
hsa-miR-617	-0.056 ±0.040	-0.194 ±0.037 <sup>b</sup>	-0.213 ±0.087	0.079
hsa-miR-628	0.006 ±0.059	-0.145 ±0.008 <sup>b</sup>	-0.190 ±0.079	0.492
hsa-miR-652	0.061 ±0.025	0.039 ±0.064	-0.095 ±0.048	0.026
hsa-miR-98	0.062 ±0.014	-0.330 ±0.149 <sup>a</sup>	-0.403 ±0.157 <sup>a</sup>	0.023
miRPlus_17830	-0.062 ±0.014	-0.186 ±0.053 <sup>b</sup>	-0.178 ±0.058	0.090
miRPlus_17832	-0.093 ±0.022	-0.212 ±0.038 <sup>b</sup>	-0.145 ±0.089	-0.058
miRPlus_17836	-0.072 ±0.023	-0.188 ±0.033 <sup>b</sup>	-0.286 ±0.157	-0.091
miRPlus_17845	0.194 ±0.042	0.046 ±0.042	-0.105 ±0.065 <sup>a</sup>	0.102
miRPlus_17861	-0.169 ±0.031	-0.238 ±0.042	-0.099 ±0.074	-0.107
miRPlus_17863	-0.007 ±0.027	-0.123 ±0.022 <sup>b</sup>	-0.099 ±0.198	0.399
miRPlus_17865	0.184 ±0.046	-0.225 ±0.101 <sup>a</sup>	0.083 ±0.217	-0.184
miRPlus_17870	0.373 ±0.012	0.328 ±0.021	0.184 ±0.040 <sup>a</sup>	0.304
miRPlus_17877	-0.200 ±0.026	-0.429 ±0.046 <sup>a</sup>	-0.390 ±0.292	-0.283
miRPlus_17881	-0.226 ±0.002	-0.270 ±0.008 <sup>b</sup>	-0.317 ±0.233	-0.427
miRPlus_17900	0.351 ±0.057	0.268 ±0.051	0.176 ±0.029 <sup>a</sup>	0.633
miRPlus_17909	0.247 ±0.017	0.193 ±0.014 <sup>b</sup>	0.140 ±0.112	0.109
miRPlus_17915	-0.135 ±0.039	-0.342 ±0.042 <sup>a</sup>	-0.159 ±0.242	-0.057
miRPlus_17943	-0.062 ±0.021	-0.188 ±0.024 <sup>a</sup>	-0.271 ±0.120 <sup>b</sup>	0.375
miRPlus_17960	-0.107 ±0.037	-0.303 ±0.045 <sup>a</sup>	-0.337 ±0.309	-0.285

Data represent the mean ± SE of the  $\log_2$  (Hy5/Hy3) ratios from non-infected cell cultures (n = 3), *C. parvum* infected cultures (n = 3), LPS treated cultures (n = 3), and one cell culture exposed to heated-inactivated *C. parvum* (Sham) by using the miRCURY™ LNA Array (Version 8.1). <sup>a</sup>, p < = 0.05; <sup>b</sup>, 0.05 < p <= 0.20; NA = not detectable.