

Supplementary Table S3. Postnatal MicroRNA Expression Profiles in Children Descending from PTB Pregnancies with regard to Clinical Findings.

	Kruskal-Wallis test results	ROC curve analysis results
	PTB with normal clinical findings (n=22) vs NP (n=92)	PTB with normal clinical findings (n=22) vs NP (n=92)
	PTB with abnormal clinical findings (n=34) vs NP (n=92)	PTB with abnormal clinical findings (n=34) vs NP (n=92)
miR-1-3p	0.459±0.546 vs 0.033±0.040, p< 0.001	AUC 0.896, p< 0.001 , sen 81.82%, spe 84.78%, cut off >0.0885, 68.18% at 10.0% FPR
	0.583±0.659 vs 0.033±0.040, p< 0.001	AUC 0.942, p< 0.001 , sen 91.18%, spe 82.61%, cut off >0.0733, 76.47% at 10.0% FPR
miR-16-5p	1.776±1.954 vs 0.813±0.677, p= 0.001	AUC 0.781, p< 0.001 , sen 81.82%, spe 66.30%, cut off >0.8271, 31.82% at 10.0% FPR
	1.698±1.345 vs 0.813±0.677, p< 0.001	AUC 0.811, p< 0.001 , sen 82.35%, spe 72.83%, cut off >0.9370, 47.06% at 10.0% FPR
miR-17-5p	1.580±1.149 vs 0.941±0.823, p= 0.058	AUC 0.686, p= 0.006 , sen 50.00%, spe 89.13%, cut off >1.5463, 40.91% at 10.0% FPR
	1.752±1.178 vs 0.941±0.823, p= 0.005	AUC 0.758, p< 0.001 , sen 73.53%, spe 72.83%, cut off >1.0995, 44.12% at 10.0% FPR
miR-20a-5p	2.181±2.147 vs 0.768±0.597, p< 0.001	AUC 0.812, p< 0.001 , sen 72.73%, spe 80.43%, cut off >1.0966, 50.00% at 10.0% FPR
	2.984±2.487 vs 0.768±0.597, p< 0.001	AUC 0.835, p< 0.001 , sen 76.47%, spe 80.43%, cut off >1.0966, 55.88% at 10.0% FPR
miR-20b-5p	2.256±1.990 vs 1.062±0.926, p= 0.019	AUC 0.716, p< 0.001 , sen 68.18%, spe 73.91%, cut off >1.3508, 36.36% at 10.0% FPR
	2.335±1.893 vs 1.062±0.926, p< 0.001	AUC 0.811, p< 0.001 , sen 85.29%, spe 70.65%, cut off >1.1681, 58.82% at 10.0% FPR
miR-21-5p	0.447±0.433 vs 0.156±0.127, p< 0.001	AUC 0.782, p< 0.001 , sen 68.18%, spe 77.17%, cut off >0.2485, 40.91% at 10.0% FPR
	0.446±0.539 vs 0.156±0.127, p< 0.001	AUC 0.739, p< 0.001 , sen 85.29%, spe 56.52%, cut off >0.1672, 29.41% at 10.0% FPR
miR-23a-3p	0.274±0.392 vs 0.115±0.130, p= 0.028	AUC 0.707, p< 0.001 , sen 81.82%, spe 55.43%, cut off >0.0849, 22.73% at 10.0% FPR
	0.264±0.421 vs 0.115±0.130, p= 0.134	AUC 0.635, p= 0.022 , sen 41.18%, spe 84.78%, cut off >0.2119, 29.41% at 10.0% FPR

miR-24-3p	0.250±0.159 vs 0.184±0.136, p= 0.786	-
	0.277±0.218 vs 0.184±0.136, p= 0.087	AUC 0.658, p= 0.004 , sen 73.53%, spe 58.70%, cut off >0.2119, 23.53% at 10.0% FPR
miR-26a-5p	0.628±0.405 vs 0.363±0.376, p= 0.013	AUC 0.729, p< 0.001 , sen 50.00%, spe 86.96%, cut off >0.5945, 40.91% at 10.0% FPR
	0.774±0.794 vs 0.363±0.376, p< 0.001	AUC 0.792, p< 0.001 , sen 88.24%, spe 59.78%, cut off >0.3149, 41.18% at 10.0% FPR
miR-29a-3p	0.417±0.323 vs 0.168±0.172, p< 0.001	AUC 0.797, p< 0.001 , sen 86.36%, spe 63.04%, cut off >0.1471, 54.45% at 10.0% FPR
	0.611±0.906 vs 0.168±0.172, p< 0.001	AUC 0.822, p< 0.001 , sen 85.29%, spe 71.74%, cut off >0.1840, 38.24% at 10.0% FPR
miR-92a-3p	1.836±1.809 vs 1.664±1.090, p= 1.000	-
	1.975±1.395 vs 1.664±1.090, p= 1.000	-
miR-100-5p	0.003±0.003 vs 0.001±0.001, p= 0.006	AUC 0.734, p< 0.001 , sen 77.27%, spe 60.87%, cut off >0.0013, 36.36% at 10.0% FPR
	0.003±0.003 vs 0.001±0.001, p< 0.001	AUC 0.809, p< 0.001 , sen 94.12%, spe 55.43%, cut off >0.0012, 41.189% at 10.0% FPR
miR-103a-3p	2.103±1.127 vs 0.818±0.924, p< 0.001	AUC 0.851, p< 0.001 , sen 90.91%, spe 66.30%, cut off >0.8274, 54.55% at 10.0% FPR
	2.220±2.091 vs 0.818±0.924, p< 0.001	AUC 0.830, p< 0.001 , sen 88.24%, spe 73.91%, cut off >0.9662, 47.06% at 10.0% FPR
miR-125b-5p	0.007±0.009 vs 0.003±0.002, p= 0.048	AUC 0.713, p= 0.001 , sen 77.27%, spe 65.22%, cut off >0.0028, 22.73% at 10.0% FPR
	0.007±0.009 vs 0.003±0.002, p< 0.001	AUC 0.771, p< 0.001 , sen 73.53%, spe 77.17%, cut off >0.0034, 32.35% at 10.0% FPR
miR-126-3p	0.336±0.333 vs 0.123±0.098, p< 0.001	AUC 0.793, p< 0.001 , sen 86.36%, spe 63.04%, cut off >0.1265, 36.36% at 10.0% FPR
	0.420±0.456 vs 0.123±0.098, p< 0.001	AUC 0.835, p< 0.001 , sen 79.41%, spe 79.35%, cut off >0.2053, 50.00% at 10.0% FPR
miR-130b-3p	0.681±0.569 vs 0.489±0.595, p= 0.230	AUC 0.681, p= 0.002 , sen 81.82%, spe 51.09%, cut off >0.2514, 13.64% at 10.0% FPR
	0.895±0.711 vs 0.489±0.595, p< 0.001	AUC 0.798, p< 0.001 , sen 82.35%, spe 76.09%, cut off >0.5232, 20.59% at 10.0% FPR

miR-133a-3p	0.112±0.149 vs 0.040±0.037, p= 0.066	AUC 0.685, p= 0.002 , sen 81.82%, spe 51.09%, cut off >0.0270, 22.73% at 10.0% FPR
	0.150±0.153 vs 0.040±0.037, p< 0.001	AUC 0.778, p< 0.001 , sen 97.06%, spe 51.09%, cut off >0.0270, 32.35% at 10.0% FPR
miR-143-3p	0.050±0.034 vs 0.014±0.014, p< 0.001	AUC 0.883, p< 0.001 , sen 100.00%, spe 60.87%, cut off >0.0114, 54.55% at 10.0% FPR
	0.045±0.053 vs 0.014±0.014, p< 0.001	AUC 0.845, p< 0.001 , sen 94.12%, spe 64.13%, cut off >0.0125, 50.00% at 10.0% FPR
miR-145-5p	0.127±0.101 vs 0.061±0.036, p= 0.126	AUC 0.681, p= 0.014 , sen 40.91%, spe 98.91%, cut off >0.1544, 40.91% at 10.0% FPR
	0.111±0.121 vs 0.061±0.036, p= 0.181	AUC 0.656, p= 0.003 , sen 79.41%, spe 47.83%, cut off >0.0552, 23.53% at 10.0% FPR
miR-146a-5p	2.056±2.098 vs 0.955±1.056, p= 0.012	AUC 0.723, p< 0.001 , sen 95.45%, spe 43.48%, cut off >0.5950, 27.27% at 10.0% FPR
	2.038±1.639 vs 0.955±1.056, p< 0.001	AUC 0.789, p< 0.001 , sen 88.24%, spe 64.13%, cut off >0.9569, 38.24% at 10.0% FPR
miR-155-5p	1.828±1.650 vs 1.623±1.197, p= 0.989	-
	1.936±1.603 vs 1.623±1.197, p= 0.965	-
miR-181a-5p	0.391±0.245 vs 0.175±0.116, p= 0.002	AUC 0.769, p< 0.001 , sen 90.91%, spe 58.70%, cut off >0.1846, 40.91% at 10.0% FPR
	0.429±0.322 vs 0.175±0.116, p< 0.001	AUC 0.812, p< 0.001 , sen 85.29%, spe 68.48%, cut off >0.2152, 44.12% at 10.0% FPR
miR-195-5p	0.183±0.173 vs 0.073±0.116, p= 0.006	AUC 0.757, p< 0.001 , sen 72.73%, spe 71.74%, cut off >0.0586, 36.36% at 10.0% FPR
	0.501±1.069 vs 0.073±0.116, p< 0.001	AUC 0.833, p< 0.001 , sen 85.29%, spe 70.65%, cut off >0.0553, 44.12% at 10.0% FPR
miR-199a-5p	0.090±0.073 vs 0.059±0.111, p= 0.009	AUC 0.768, p< 0.001 , sen 86.36%, spe 63.30%, cut off >0.0324, 27.27% at 10.0% FPR
	0.119±0.167 vs 0.059±0.111, p< 0.001	AUC 0.786, p< 0.001 , sen 79.41%, spe 72.83%, cut off >0.0388, 23.53% at 10.0% FPR
miR-210-3p	0.092±0.080 vs 0.095±0.072, p= 1.000	-
	0.086±0.069 vs 0.095±0.072, p= 1.000	-

miR-221-3p	0.761±0.786 vs 0.276±0.229, p= 0.002	AUC 0.767, p< 0.001 , sen 72.73%, spe 70.65%, cut off >0.3469, 31.82% at 10.0% FPR
	0.650±0.503 vs 0.276±0.229, p< 0.001	AUC 0.789, p< 0.001 , sen 73.53%, spe 76.09%, cut off >0.4009, 32.35% at 10.0% FPR
miR-342-3p	3.112±1.911 vs 3.052±1.817, p= 1.000	-
	3.435±2.318 vs 3.052±1.817, p= 1.000	-
miR-499a-5p	0.833±0.803 vs 0.147±0.243, p< 0.001	AUC 0.884, p< 0.001 , sen 77.27%, spe 90.22%, cut off >0.3725, 77.27% at 10.0% FPR
	0.775±1.566 vs 0.147±0.243, p< 0.001	AUC 0.816, p< 0.001 , sen 82.35%, spe 70.65%, cut off >0.1180, 55.36% at 10.0% FPR
miR-574-3p	0.153±0.117 vs 0.074±0.052, p= 0.001	AUC 0.773, p< 0.001 , sen 75.00%, spe 63.04%, cut off >0.0878, 31.82% at 10.0% FPR
	0.150±0.160 vs 0.074±0.052, p= 0.002	AUC 0.735, p< 0.001 , sen 73.53%, spe 64.13%, cut off >0.0738, 23.53% at 10.0% FPR

MicroRNA gene expression is compared between individual groups using Kruskal-Wallis test. ROC curve analysis shows the potential of individual microRNAs to differentiate between children descending from normal term pregnancies and those descending from PTB pregnancies with normal or abnormal clinical findings. Statistically significant results are marked in bold. Mean ± SD values of relative fold gene expression of samples ($2^{-\Delta\Delta Ct}$) are presented. NP, normal pregnancies; PTB, spontaneous preterm birth; ROC, receiver operating characteristic; AUC, area under the ROC curve; sen, sensitivity; spe, specificity; FPR, false positive rate.