

**mtTB: a web-based R/shiny app for pulmonary tuberculosis screening**

Supplementary Table 1. Clinical characteristics of two tuberculosis cohorts

<b>Cohort</b>	<b>Discovery</b>	<b>Validation</b>
<b>Num. of patients</b>	23	20
<b>Age in years, mean (SD)</b>		
Control	52.7(1.0)	45(1.85)
Tuberculosis	35(1.1)	38.1(2.8)
<b>Males, count (%)</b>		
Control	7/13(53.8)	6/12(50.0)
Tuberculosis	7/10(70)	5/8(62.5)

Supplementary Table 2. The mitochondria-derived RNA (mtRNA) signature

<b>names</b>	<b>Sequences</b>	<b>Length</b>
t00010700	ACTTTTTCTCTGACCA	16
t00017015	CTTTTTCTCTGACCA	15
t00024854	CACTGTAAAGCTAACTTAGCATT	24
t00013048	TAGGATGGGGTGTGATAGG	19
t00012442	GGTAAAATGGCTGAGTGAAGCATTGGACTGTA	32
t00015863	GTTTAGACGGGCTCACA	17
t00022420	TTTCCAAGGACACCA	15
t00028073	GAGAAAGCTCACAAGAACTGCTA	23
t00021234	TTTTCCAAGGACACCA	16

Supplementary Table 3. A list of mtRNAs that p-values less than 0.05 when the unpaired student t-test was evaluated

names	pvalue	Fold_change	log_FC	FDR
t00017015_to_t00027940	0.019828154	8.698174684	3.120712683	0.56259193
t00017015_to_t00022458	0.0031863	8.397414571	3.069945214	0.352911303
t00010700_to_t00015295	0.045115517	8.192511637	3.034305817	0.568363584
t00017015_to_t00027084	0.040165206	8.15445665	3.02758875	0.568363584
t00006199_to_t00022458	0.017473241	7.701777916	2.945191523	0.554823009
t00007970_to_t00022458	0.026217779	7.091588681	2.826108861	0.568363584
t00010700_to_t00022458	0.001861963	7.072595381	2.822239728	0.286742244
t00017015_to_t00022385	0.014281025	6.397756788	2.677566149	0.554823009
t00017015_to_t00028073	0.006089253	6.320137718	2.659955996	0.456715016
t00017015_to_t00020112	0.018680851	6.143608739	2.61908634	0.554823009
t00017015_to_t00021234	0.000676168	5.964851664	2.576486261	0.173549732
t00007970_to_t00014455	0.029557311	5.921470668	2.565955531	0.568363584
t00006199_to_t00014005	0.048475335	5.871031697	2.553614046	0.568363584
t00010700_to_t00014005	0.007556853	5.856186329	2.549961457	0.465502163
t00017015_to_t00024059	0.000568728	5.853501315	2.549299842	0.173549732
t00007970_to_t00014005	0.028154227	5.845095687	2.547226642	0.568363584
t00006199_to_t00014455	0.018436861	5.805714535	2.537473637	0.554823009
t00017015_to_t00024222	0.003640816	5.640710044	2.495876778	0.373790418
t00007970_to_t00028073	0.04388599	5.350813136	2.419758147	0.568363584
t00006199_to_t00028073	0.029282728	5.174407013	2.371393539	0.568363584
t00017015_to_t00022420	0.000217317	5.123415546	2.35710591	0.167334077
t00010700_to_t00015863	0.000976412	5.044584003	2.334735304	0.214810599
t00010700_to_t00013099	0.026463655	5.016855981	2.326783523	0.568363584
t00010700_to_t00014455	0.001388688	5.01524599	2.326320464	0.267322351
t00017015_to_t00027162	0.021100326	5.003638524	2.322977569	0.56259193

t00010700_to_t00027940	0.010773598	4.788589305	2.259600708	0.554823009
t00010700_to_t00028073	0.007283616	4.78137465	2.257425454	0.465502163
t00010700_to_t00029490	0.027200848	4.650162034	2.217280987	0.568363584
t00017015_to_t00029490	0.004345642	4.509771706	2.173054403	0.395153564
t00010700_to_t00021234	0.00738478	4.376376353	2.12973681	0.465502163
t00007970_to_t00010399	0.039246559	4.18977224	2.06687182	0.568363584
t00007970_to_t00013048	0.032615601	4.127378956	2.045225906	0.568363584
t00010700_to_t00026687	0.040584108	4.109884503	2.039097852	0.568363584
t00011350_to_t00015295	0.043644816	4.08529643	2.030440764	0.568363584
t00007970_to_t00015863	0.045559495	3.973256637	1.990321982	0.568363584
t00006199_to_t00015863	0.039071643	3.948439629	1.981282632	0.568363584
t00006199_to_t00010399	0.027076571	3.8587788	1.948144345	0.568363584
t00006199_to_t00013048	0.036151727	3.838373885	1.940495247	0.568363584
t00009731_to_t00015295	0.046553485	3.77249531	1.915519107	0.568363584
t00017015_to_t00026874	0.024743626	3.748701398	1.906390913	0.568363584
t00010700_to_t00022420	0.005977228	3.724898815	1.897201236	0.456715016
t00010700_to_t00020112	0.007046799	3.724176793	1.896921562	0.465502163
t00012442_to_t00028073	0.002152636	3.655825005	1.870197014	0.301369072
t00007907_to_t00022458	0.026433345	3.634345794	1.861695693	0.568363584
t00007970_to_t00021234	0.002370796	3.54992164	1.827787179	0.304252208
t00006199_to_t00021234	0.001861778	3.504548792	1.80922871	0.286742244
t00006199_to_t00007033	0.021493674	3.496451607	1.805891538	0.56259193
t00010700_to_t00016527	0.045627673	3.476695003	1.797716511	0.568363584
t00010700_to_t00027162	0.014920757	3.4097354	1.769659789	0.554823009
t00024854_to_t00027940	0.013019696	3.400673121	1.765820338	0.554823009
t00010700_to_t00026874	0.041436806	3.363898215	1.750134053	0.568363584
t00024854_to_t00028073	0.000585043	3.355708448	1.746617376	0.173549732
t00007970_to_t00024222	0.033089292	3.345669421	1.742294902	0.568363584

t00006199_to_t00009667	0.014940847	3.239022896	1.695558666	0.554823009
t00024854_to_t00030441	0.029501504	3.217956784	1.686144952	0.568363584
t00007907_to_t00014005	0.016838091	3.192303271	1.674597715	0.554823009
t00007970_to_t00009667	0.012374964	3.189738619	1.673438208	0.554823009
t00007970_to_t00024059	0.032782159	3.134575265	1.648269971	0.568363584
t00010700_to_t00024059	0.018780887	3.123247089	1.64304671	0.554823009
t00009731_to_t00022458	0.008305503	3.113899295	1.638722288	0.491941324
t00006199_to_t00024222	0.03953429	3.052356409	1.609923429	0.568363584
t00016493_to_t00028073	0.048126598	2.978552175	1.574611231	0.568363584
t00007970_to_t00016527	0.027649571	2.928734745	1.550277535	0.568363584
t00006199_to_t00022420	0.008732838	2.914359155	1.543178681	0.4980952
t00007970_to_t00022420	0.01081026	2.888528247	1.530334603	0.554823009
t00012442_to_t00024059	0.01454939	2.885387479	1.528765071	0.554823009
t00015616_to_t00024059	0.011015637	2.873303687	1.522710483	0.554823009
t00017015_to_t00024522	0.012173914	2.871626919	1.521868327	0.554823009
t00007970_to_t00015882	0.035469957	2.853263722	1.512613099	0.568363584
t00007907_to_t00014455	0.021553847	2.839396626	1.505584388	0.56259193
t00012442_to_t00027940	0.006227932	2.820153218	1.495773546	0.456715016
t00024854_to_t00027084	0.004934476	2.8031217	1.487034382	0.422171871
t00009731_to_t00027940	0.043653671	2.775294378	1.472640807	0.568363584
t00020738_to_t00024059	0.048564308	2.754171593	1.461618447	0.568363584
t00006199_to_t00024059	0.047671071	2.751323958	1.460126022	0.568363584
t00006199_to_t00016527	0.032946667	2.724576589	1.446032046	0.568363584
t00015616_to_t00024222	0.042381086	2.713462532	1.440134988	0.568363584
t00011350_to_t00024059	0.01534036	2.710129616	1.438361852	0.554823009
t00007970_to_t00027162	0.016284069	2.550403424	1.350725471	0.554823009
t00011350_to_t00028073	0.016676517	2.530100188	1.339194514	0.554823009
t00007907_to_t00022420	0.018350393	2.513332155	1.329601347	0.554823009

t00015616_to_t00015882	0.013337217	2.478504142	1.30946967	0.554823009
t00006199_to_t00029490	0.038308108	2.454527728	1.295445465	0.568363584
t00012442_to_t00013048	0.01476212	2.424873148	1.277909278	0.554823009
t00007907_to_t00015863	0.034969116	2.414222906	1.271558887	0.568363584
t00009731_to_t00013099	0.032088334	2.413820147	1.271318185	0.568363584
t00012442_to_t00016527	0.021250468	2.35859314	1.237926573	0.56259193
t00009731_to_t00015863	0.023079459	2.332031564	1.221587316	0.568363584
t00009731_to_t00021234	0.032211728	2.330558061	1.220675455	0.568363584
t00012442_to_t00015882	0.04762322	2.280469233	1.189330706	0.568363584
t00007970_to_t00029490	0.034201651	2.260239412	1.176475596	0.568363584
t00004817_to_t00028073	0.003208285	2.252945672	1.171812525	0.352911303
t00012442_to_t00020112	0.01617914	2.244294356	1.166261909	0.554823009
t00009731_to_t00014455	0.036253069	2.233770495	1.159480966	0.568363584
t00007907_to_t00021234	0.02886618	2.22168039	1.151651286	0.568363584
t00021504_to_t00028073	0.049252053	2.187972123	1.129594357	0.568363584
t00006199_to_t00027162	0.028928261	2.172556654	1.119393799	0.568363584
t00012442_to_t00015863	0.013675039	2.166705604	1.115503144	0.554823009
t00012442_to_t00021234	0.004362085	2.164437459	1.113992115	0.395153564
t00009731_to_t00010399	0.036212679	2.101179252	1.071199244	0.568363584
t00011350_to_t00016527	0.040283003	2.057109918	1.040618884	0.568363584
t00009731_to_t00013048	0.028673117	2.056369589	1.040099582	0.568363584
t00011195_to_t00020738	0.034348311	0.42104834	-1.247942218	0.568363584
t00007907_to_t00010700	0.048230368	0.409151236	-1.289293885	0.568363584
t00005497_to_t00012442	0.036389062	0.382600402	-1.386089704	0.568363584
t00008082_to_t00010700	0.045820613	0.379414042	-1.398155022	0.568363584
t00006887_to_t00020738	0.04264853	0.345062274	-1.535071346	0.568363584
t00006887_to_t00010700	0.024884722	0.319417552	-1.646484503	0.568363584
t00004817_to_t00017015	0.034257163	0.30149757	-1.729781719	0.568363584

t00006414_to_t00007970	0.046099054	0.297098533	-1.750986613	0.568363584
t00006887_to_t00017015	0.027932165	0.295121245	-1.760620316	0.568363584
t00007033_to_t00011350	0.029057313	0.287019891	-1.800777374	0.568363584
t00015882_to_t00020738	0.025257214	0.283758745	-1.817263241	0.568363584
t00014455_to_t00017015	0.045044749	0.273434472	-1.87073296	0.568363584
t00010399_to_t00010700	0.000488179	0.269171504	-1.893402411	0.173549732
t00013048_to_t00017015	0.029327023	0.267957076	-1.899926182	0.568363584
t00013099_to_t00017015	0.029910501	0.253580349	-1.979485147	0.568363584
t00020112_to_t00020738	0.020599476	0.236560214	-2.079720642	0.56259193
t00006414_to_t00010700	0.013884806	0.234881266	-2.089996446	0.554823009
t00015295_to_t00017015	6.43E-05	0.232915385	-2.102122157	0.099071121
t00009667_to_t00017015	0.049029024	0.224460791	-2.155464641	0.568363584
t00003437_to_t00020738	0.048565667	0.221374077	-2.1754418	0.568363584
t00020494_to_t00020738	0.018241622	0.21480426	-2.21890549	0.554823009
t00006414_to_t00020738	0.042811243	0.210212813	-2.25007749	0.568363584
t00016527_to_t00020738	0.019094558	0.208694053	-2.260538603	0.554823009
t00014138_to_t00017015	0.044182221	0.205611302	-2.282008523	0.568363584
t00015295_to_t00020738	0.047917969	0.162083294	-2.625192691	0.568363584

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