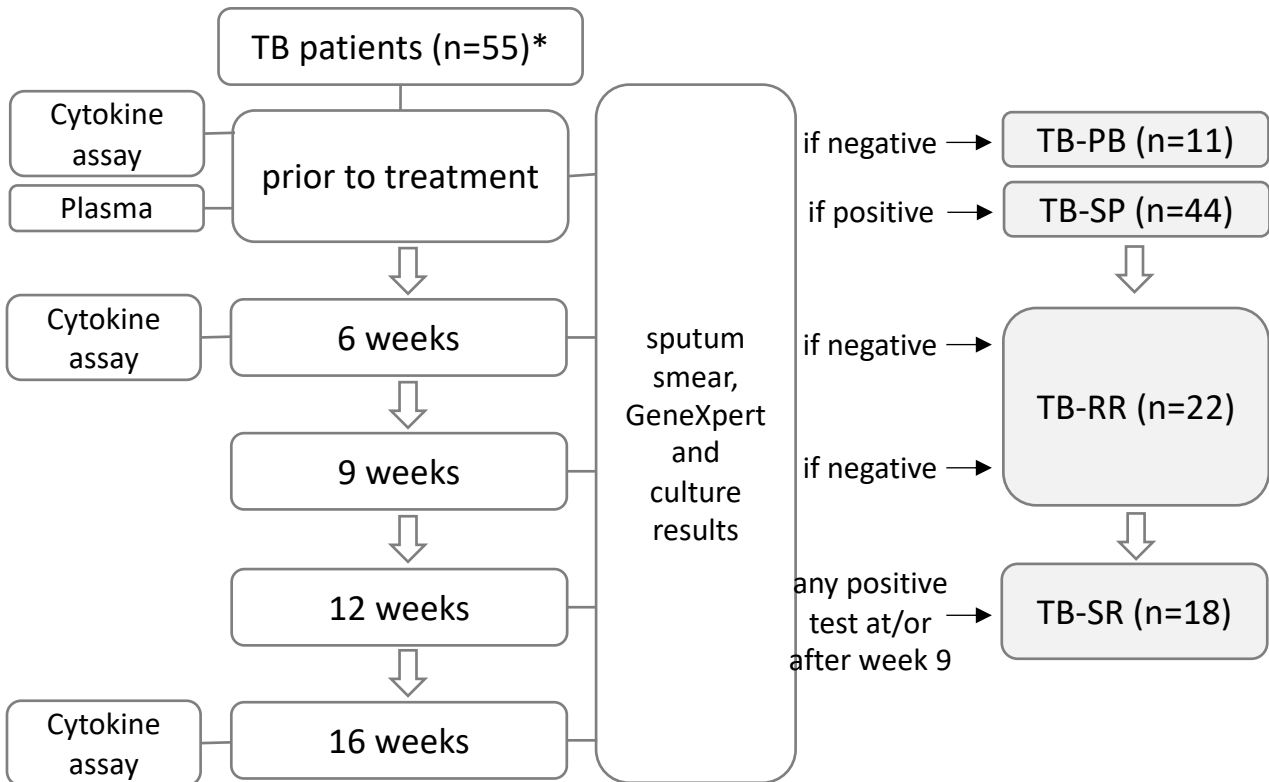


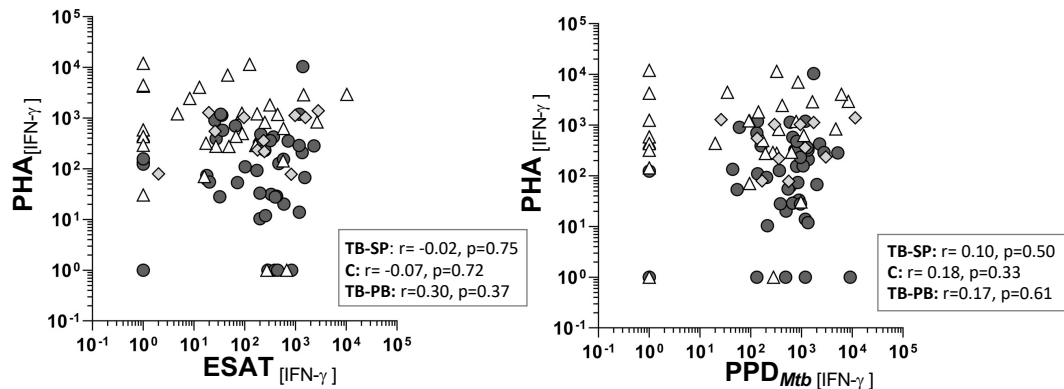
Supplementary Figure 1



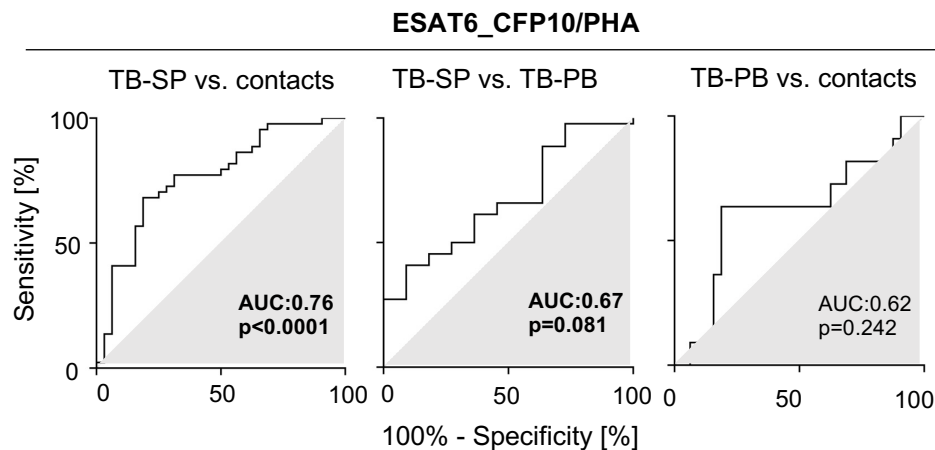
Recruitment scheme for *in vitro* stimulation (cytokine assay), plasma, sputum analyses, and criteria for classification of tuberculosis patient subgroups. TB-SP, sputum positive tuberculosis patients; TB-PB, paucibacillary Tuberculosis patients; TB-RR, rapid treatment responder; TB-SR, slow treatment responder.

Supplementary Figure 2

a

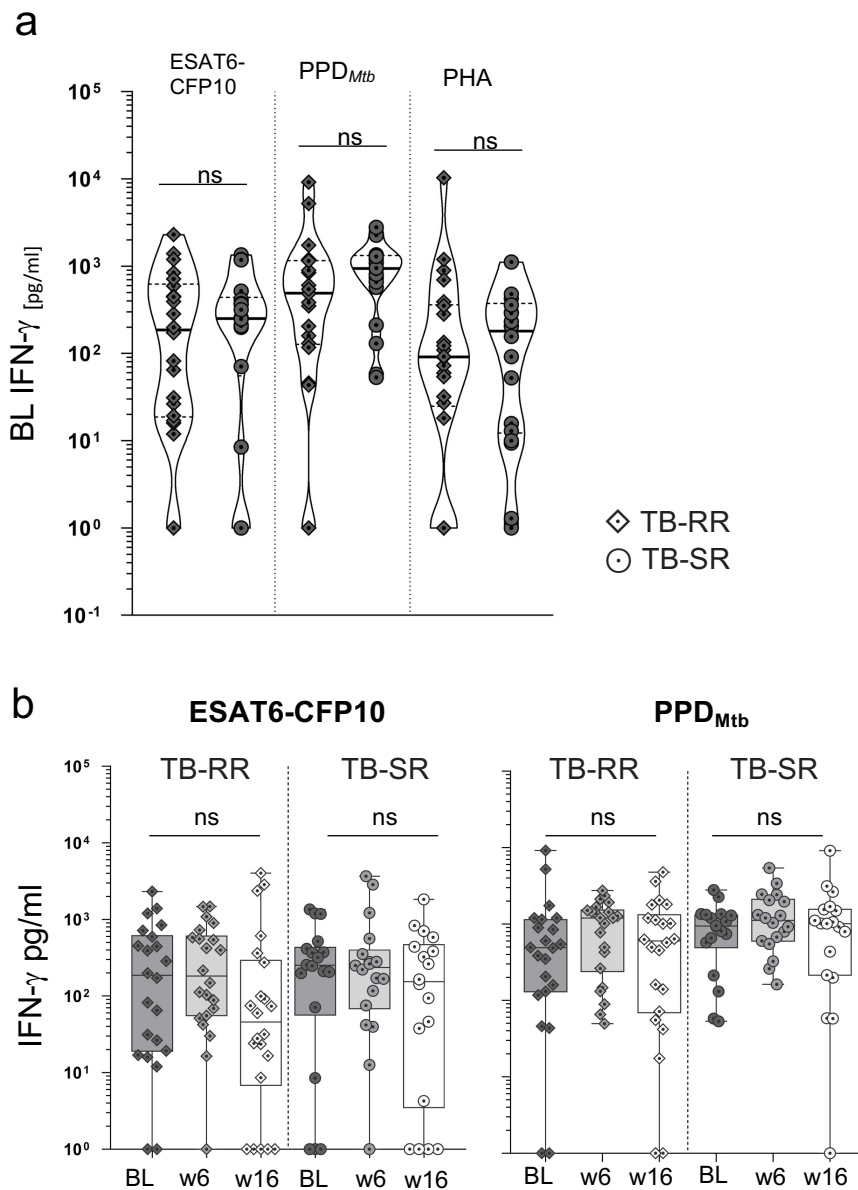


b



Antigen-specific (i.e., PPD_{Mtb}, ESAT6-CFP10) and PHA (i.e., phytohemagglutinin) induced IFN- γ concentrations of tuberculosis patients with high (TB-SP; dark grey circles; $n=44$) and low (TB-PB; bright grey diamonds; $n=11$) *M. tuberculosis* burden as well as contacts (open triangles; $n=32$) are depicted. (a) Correlation plots of PHA vs. ESAT6-CFP10 (left graph) and vs. PPD_{Mtb} (right graph) are shown. The Spearman Rank test was applied to determine significance and correlation coefficients (r) as well as nominal p -values are given. (b) ROC analyses for discrimination of study groups for calculated ratios of PHA and ESAT6-CFP10-specific IFN- γ expression are shown. Graphs indicate sensitivity and specificity of classification as ROC curves. AUC as well as nominal p -values are given. ROC: Receiver Operator Characteristic; AUC: Area Under Curve. ns: not significant.

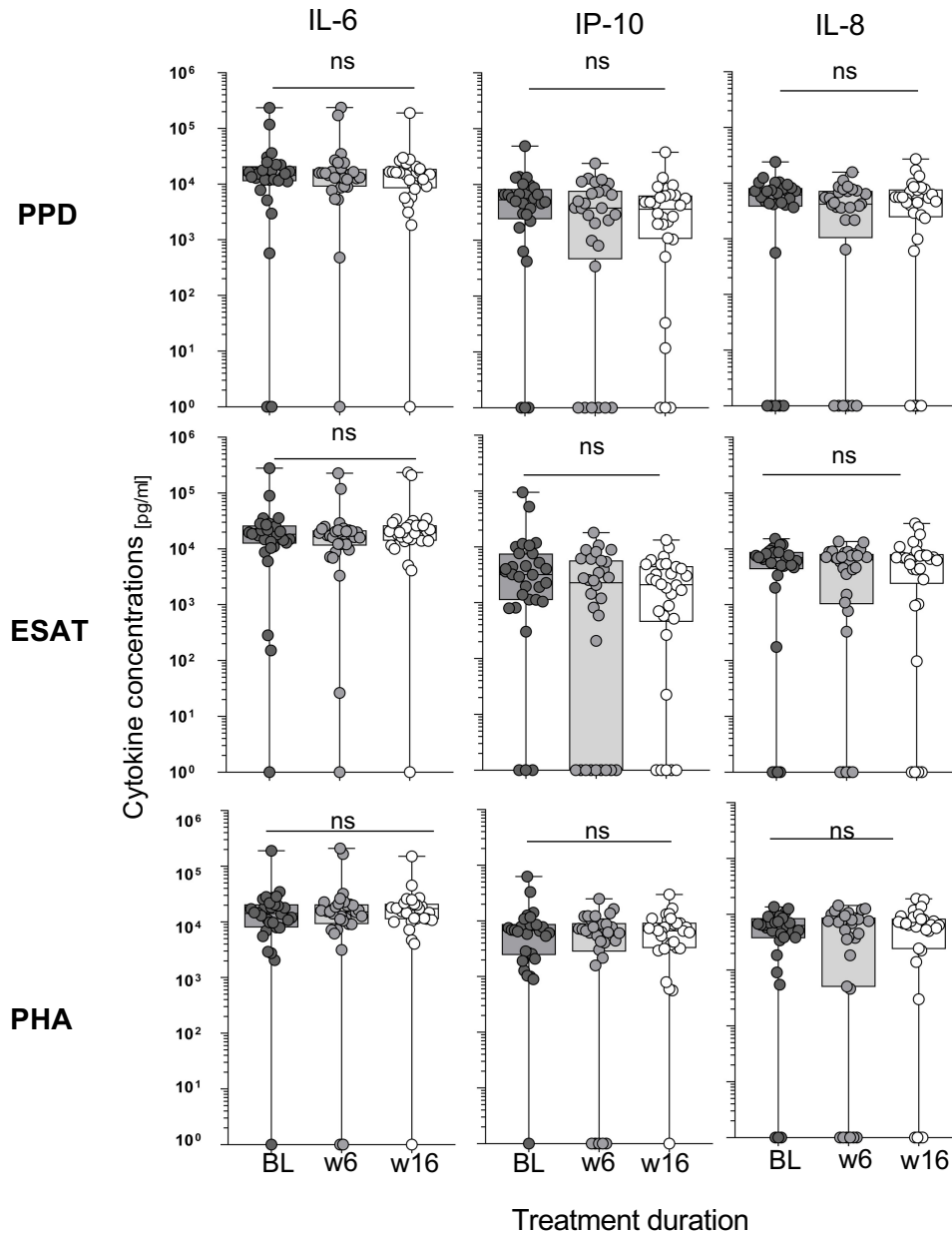
Supplementary Figure 3



Antigen-specific (i.e., PPD_{Mtb}, ESAT6-CFP10) and PHA-induced IFN- γ concentrations of tuberculosis patients with rapid (TB-RR, n=22) and slow (TB-SR, n=18) treatment response were compared

at different time points after treatment start. **(a)** Violin plots depict individual concentrations of IFN- γ as well as study group distributions including median, 25, and 75 percentiles. The two-tailed Mann-Whitney U-test was performed and a p-value <0.05 was considered significant. **(b)** Combined symbol/box and whisker graphs depict individual concentrations of IFN- γ and study group median values. The Wilcoxon signed rank test was performed for time courses comparisons. A p-value <0.05 was considered significant. ns: not significant.

Supplementary Figure 4



Time course analyses of IL-6, IP-10, and IL-8 concentrations after overnight antigen-specific (i.e., PPD_{Mtb}, ESAT6-CFP10) or PHA (i.e., phytohemagglutinin) stimulation from patients with tuberculosis prior to treatment (baseline, BL), and six weeks (W6) as well as 16 weeks (W16) after treatment start. Combined symbol/box and whisker graphs depict individual concentrations of IL-6, IP-10, and IL-8 and study group median values. The Wilcoxon signed rank test was performed and nominal p-values are given in case of statistical significance (p-value <0.05).

Supplementary Table 1: Tuberculosis patients diagnostic tests at baseline and classification

TB-SP					TB-PB			
Patient ID	Sputum smear	Sputum culture	GeneXpert	Treatment response	Patient ID	Sputum smear	Sputum culture	GeneXpert
1	pos	pos	pos	TB-SR	1	neg	neg	pos
2	pos	pos	pos	TB-RR	2	neg	neg	nd**
3	pos	pos	pos	TB-RR	3	neg	neg	pos
4	pos	pos	pos	TB-SR	4	neg	neg	pos
5	pos	neg	pos	TB-RR	5	neg	neg	nd**
6	pos	neg	nd	TB-RR	6	neg	neg	neg**
7	pos	pos	pos	TB-SR	7	neg	neg	pos
8	pos	neg	nd	TB-RR	8	neg	neg	nd**
9	pos	pos	pos	TB-RR	9	neg	neg	pos
10	nd	pos	nd	TB-SR	10	neg	neg	pos
11	pos	pos	pos	nd*	11	neg	neg	pos
12	nd	pos	pos	TB-RR				
13	nd	pos	pos	TB-RR				
14	pos	pos	pos	TB-SR				
15	pos	pos	pos	TB-SR				
16	pos	pos	pos	TB-RR				
17	nd	pos	pos	TB-SR				
18	pos	neg	pos	TB-SR				
19	pos	neg	pos	TB-RR				
20	pos	pos	pos	TB-RR				
21	nd	pos	pos	TB-RR				
22	nd	pos	pos	nd*				
23	pos	pos	pos	nd*				
24	pos	pos	pos	TB-RR				
25	pos	pos	pos	TB-SR				
26	pos	pos	pos	TB-SR				
27	pos	pos	pos	TB-RR				
28	nd	pos	pos	TB-RR				
29	pos	pos	pos	TB-SR				
30	pos	pos	pos	TB-SR				
31	pos	pos	pos	TB-RR				
32	nd	pos	pos	TB-SR				
33	nd	pos	pos	TB-SR				
34	nd	pos	pos	TB-RR				
35	pos	pos	pos	TB-RR				
36	pos	pos	pos	TB-SR				
37	pos	pos	nd	TB-RR				
38	pos	pos	pos	nd*				
39	pos	pos	pos	TB-RR				
40	nd	pos	nd	TB-SR				
41	pos	pos	pos	TB-RR				
42	pos	pos	pos	TB-SR				
43	pos	pos	pos	TB-SR				
44	pos	pos	pos	TB-RR				

TB-SP: Sputum positive tuberculosis patients at baseline

TB-PB: Sputum negative tuberculosis patients at baseline

ID: identifier

pos: positive

neg: negative

nd: not done

* excluded from analyses, not all time points available

** positive sputum results during treatment, i.e., ID2: positive smear/sputum culture at w16; ID5: positive sputum smear at w6; ID6: positive sputum culture at w12; ID8: positive sputum culture at w6