

Supplementary Material

Supplementary Table S1

Patient characteristics, co-morbidity and baseline laboratory parameters of patients with acute bacterial and viral meningitis

Supplementary Table S2

High-throughput sequence reads of the TCR β CDR3 variants from patient 1, 2 and 3

Supplementary Figures

S1: CSF-cytology from patients 1,2,3,6

S2: CSF-cytology from patient 12

S3: Isotype control staining

S4: CSF-cytology from patient 4 in acute and post-acute phase

S5: TCR β immunofluorescence stainings

S6: Confocal immunofluorescence microscopy of patients 2 and 11

S7: Mass-spectrometry identification of TCR β variants

S8: Detection of genomic V(D)J rearrangements

S9: IL-8 levels in CSF and PB

S10: Repertoire diversities in PB- and CSF-neutrophils

S11: Repertoire analyses by CDR3 spectratyping

S12: CDR3 Repertoire analyses on the sequence level

S13: NGS TCR β transcriptome analyses

S14: Quantitative length variant analyses

S15: V β gene usage of neutrophils and lymphocytes from the CSF

S16: Relative abundance of TCR β CDR3 transcript variants

S17: Repertoire changes after ex vivo exposure to bacterial pathogens

S18: Ex vivo targeting of baits to the TCR $\alpha\beta$ enhances neutrophil phagocytosis

S19: Analyses of TCR $\alpha\beta$ -directed bead uptake

S20: Enhanced TCR $\alpha\beta$ -directed phagocytosis in neutrophils

Additional *unpublished* material for editors and referees: Expression of the neutrophil TCR in septic arthritis, infected catheter wound and acute pleuritis