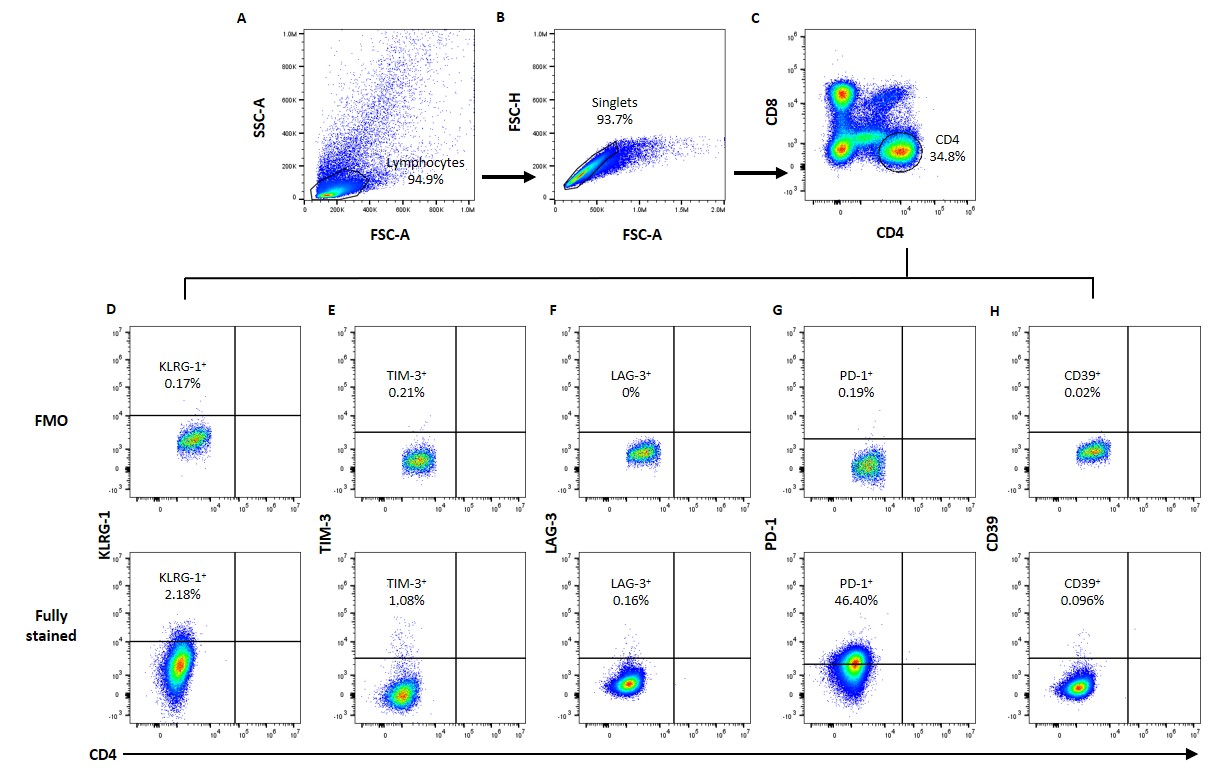
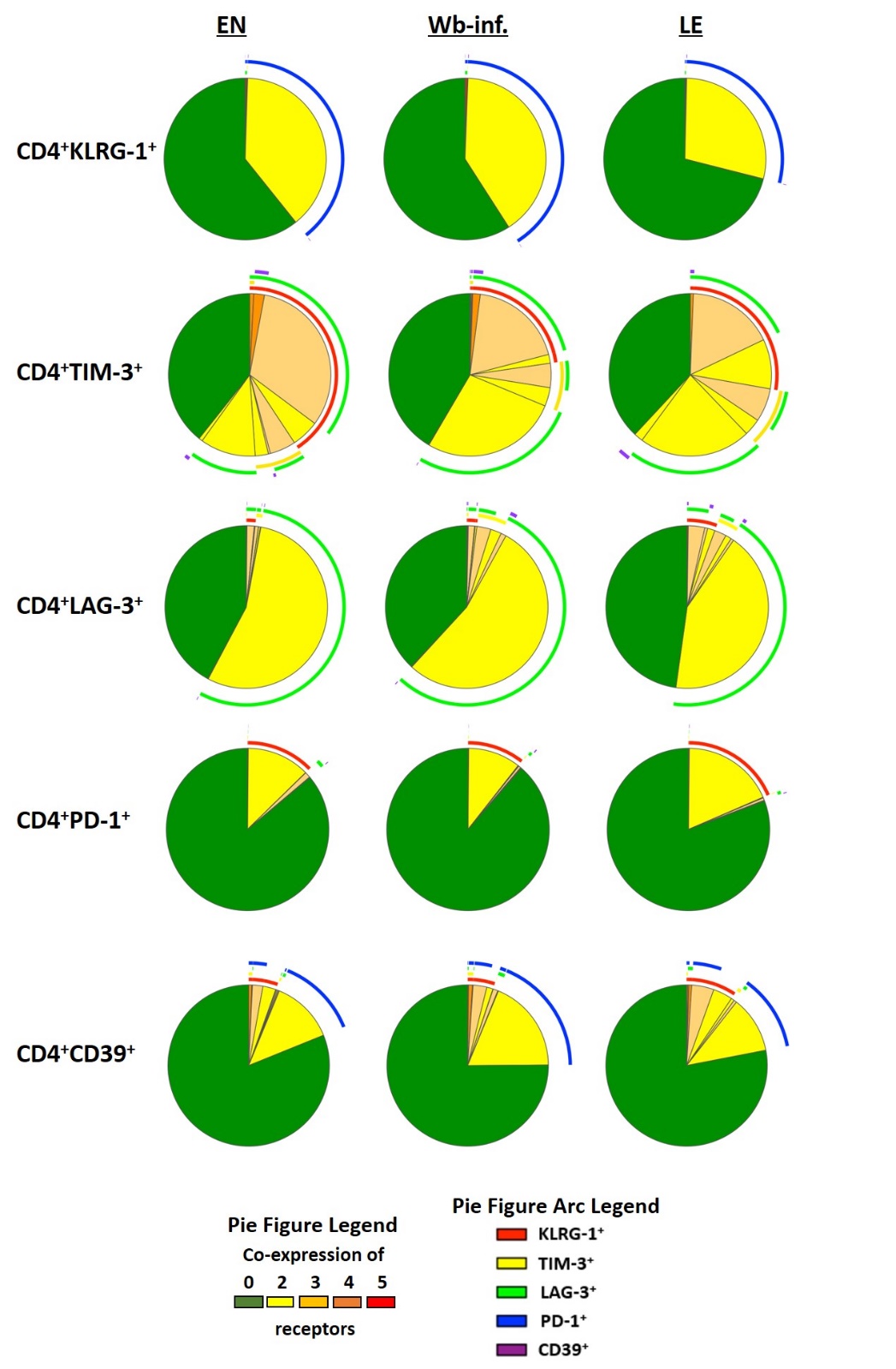
Supplementary Material



**Supplementary Figure S1: Gating strategy for exhausted associated receptors on CD4+ T cells**

**(A)** PBMCs were first gated to discriminate lymphocytes using forward-scatter (FSC) versus side scatter (SSC). Then, **(B)** single cells and **(C)** CD4 expression was analysed. Finally, expression of the inhibitory receptors **(D)** KLRG-1, **(E)** TIM-3, **(F)** LAG-3, **(G)** PD-1 and **(H)** CD39 on CD4+ T cells were analysed to discriminate the frequencies of exhausted CD4+ T cells subsets based on FMO controls.



**Supplementary Figure S2: Co-expression patterns of exhausted associated receptors in the Ghanaian patient cohorts**

Co-expression of exhaustion associated receptors in healthy endemic normal subjects (EN, n=44), *Wuchereria bancrofti*-infected (Wb-inf., n=31) and lymphedema patients (LE, n=26) was analysed on CD4+KLRG1+, CD4+TIM-3+, CD4+LAG-3+, CD4+PD-1+ and CD4+CD39+ T cell subsets using Boolean gating.