

### **Description of Additional supplementary files**

**Supplementary Data 1.** Differentially expressed marker genes of neutrophil subsets.

**Supplementary Data 2.** Gene signatures defining functional states of neutrophil and Mono/Marco subsets.

**Supplementary Data 3.** Differentially expressed marker genes of Mono/Marco subsets.

**Supplementary Data 4.** Differentially expressed marker genes of endothelial cell subsets.

**Supplementary Data 5.** Differentially expressed marker genes of all 37 identified sub-populations.