(A) The UMAP plot of embeddings outputted by immune cell for LN patients and mouse with csMAHN, colored with dataset. (B) UMAP plot of LN mouse clsuted with Seurata and colored with dataset. (C) Proportion of inflammatory CD16+ macrophages of LN patients and mouse in each status. (D) Correlation between proportion of inflammatory CD16+ macrophages and platelets titer in LN patients. (E) Box plot of GZMK+ CD8+ Tcells proportion, group by Decreased complements score. (F) The UMAP plot of embeddings outputted by NK cell for LN patients and mouse with csMAHN. (G) ISG score of NK cell of LN patients (left panel) and mouse (right panel). Dot plot showing scaled gene expression levels of immnue cell (H), macrophages (I), T cell (J), and NK cell (K) The size of the dots corresponds to the proportion of each csMAHN label. (L) Dot plot showing posterior probability of the immune cell integrating human and mouse LN immune cells using csMAHN, The size of the dots corresponds to the proportion of each original label that is assigned to each csMAHN label. (M) UMAP plot human and mouse LN immune cells, macrophages, T cell, and NK cell, colored with posterior probability integrating with csMAHN.