

Description of Additional Supplementary Files

Supplementary Data 1: A list of marker genes and corresponding references for the annotation of chicken cell types.

Supplementary Data 2: A list of marker genes and corresponding references for the annotation of turtle cell types.

Supplementary Data 3: The AOROC value in the MetaNeighbor analysis process.

Supplementary Data 4: Upregulated genes in chicken adrenal cortex cells.

Supplementary Data 5: Differentially expressed genes in chicken and human pDCs.

Supplementary Data 6: Evolutionary and functional classes of genes(mononuclear phagocyte and lymphocyte).

Supplementary Data 7: Evolutionary and functional classes of genes(mononuclear phagocyte).

Supplementary Data 8: Genes differentially expressed along the trajectories from haematopoietic stem cells/multipotent blood progenitors to FDC.

Supplementary Data 9: Differentially expressed genes between chicken GC(II)_B and human GC(II)_B.

Supplementary Data 10: Genes differentially expressed along the trajectories from double negative T cells to $\gamma\delta$ T₂