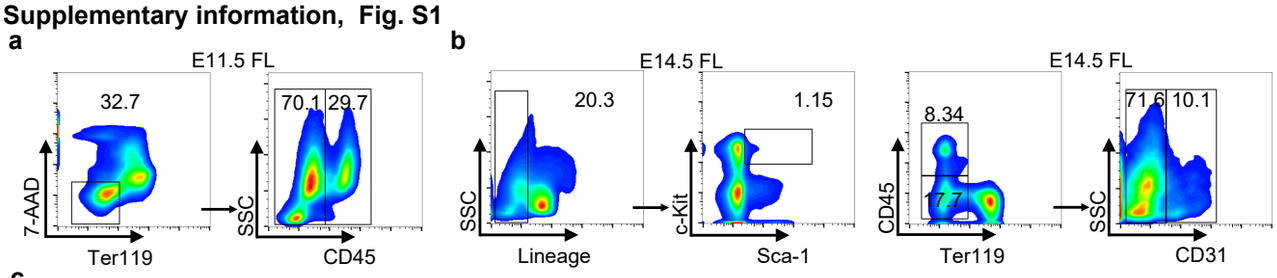
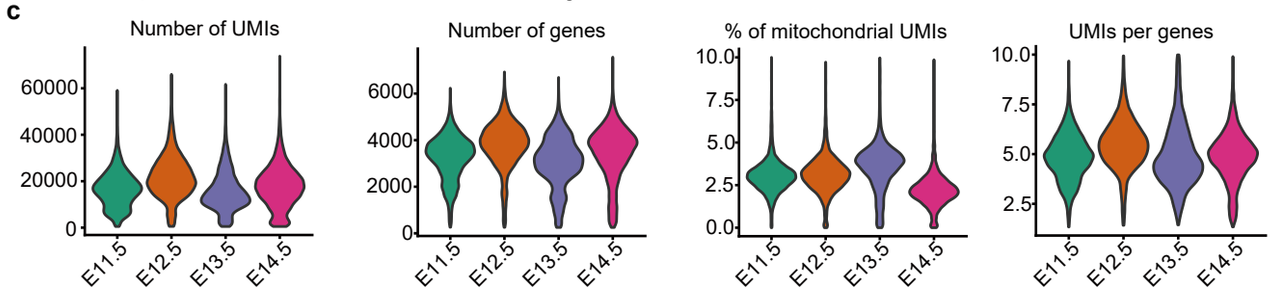
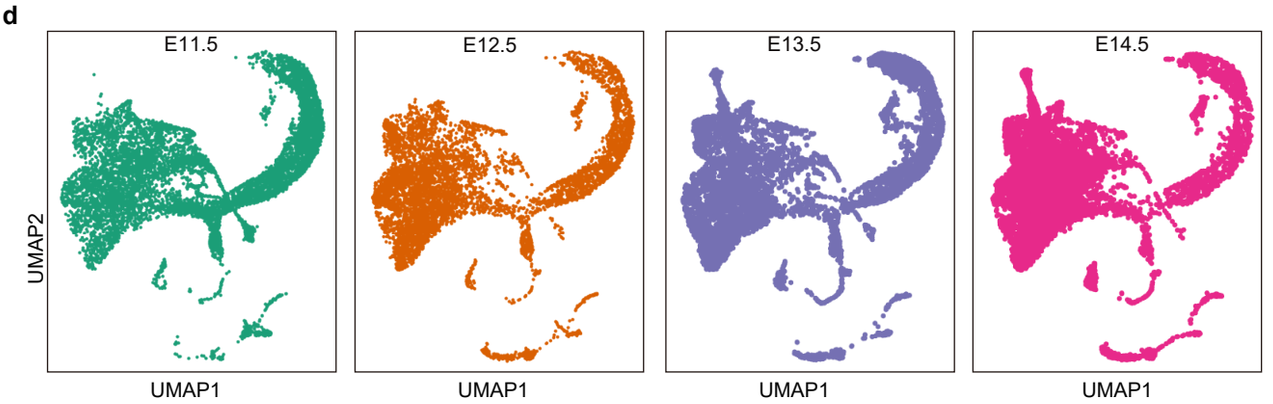
Supplementary information, Fig. S1



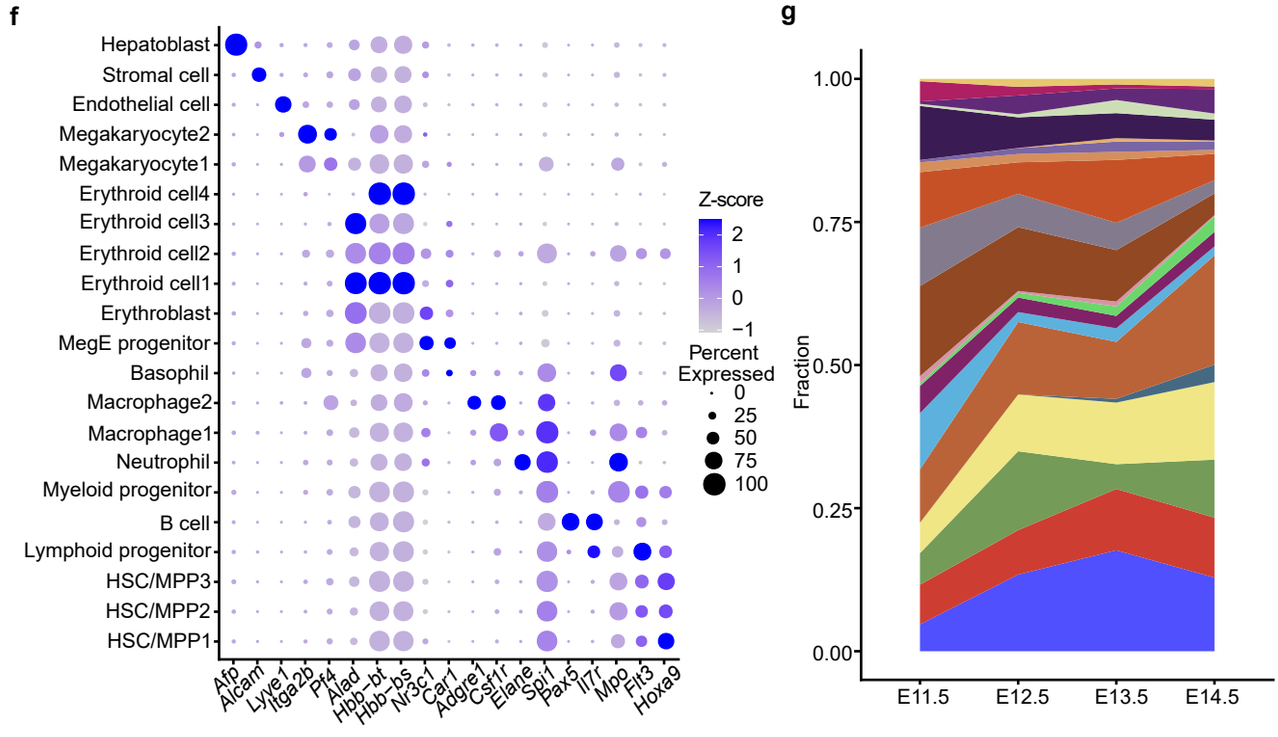




e

	E11.5	E12.5	E13.5	E14.5	Sum
1 HSC/MPP1	457	935	1291	1081	3764
2 HSC/MPP2	676	543	784	880	2883
3 HSC/MPP3	537	962	317	852	2668
4 Lymphoid progenitor	517	693	788	1139	3137
5 B cell	1	0	47	256	304
6 Myeloid progenitor	908	884	729	1604	4125
7 Neutrophil	956	121	174	132	1383
8 Macrophage1	463	178	158	214	1013
9 Macrophage2	45	57	121	228	451
10 Basophil	122	23	63	18	226
11 MegE progenitor	1534	779	657	318	3288

	E11.5	E12.5	E13.5	E14.5	Sum
12 Erythroblast	993	407	349	195	1944
13 Erythroid cell1	945	384	805	385	2519
14 Erythroid cell2	168	101	103	59	431
15 Erythroid cell3	38	72	131	120	361
16 Erythroid cell4	1	2	44	18	65
17 Megakaryocyte1	921	374	320	306	1921
18 Megakaryocyte2	35	38	168	90	331
19 Endothelial cell	41	229	148	360	778
20 Stromal cell	345	105	51	37	538
21 Hepatoblast	39	97	71	112	319



Supplementary information, Fig. S1. Sample preparation for scRNA-seq and quality control of scRNA-seq data. a Flow cytometry analysis showing the proportions of $CD45^{+}Ter119^{-}7\text{-}AAD^{-}$ hematopoietic cells (HCs) and $CD45^{-}Ter119^{-}7\text{-}AAD^{-}$ non-hematopoietic cells (NCs) in E11.5 FL. **b** Flow cytometry analysis showing the proportions of LSK hematopoietic stem cells and multipotent progenitors (HSCs/MPPs), $CD45^{+}Ter119^{-}7\text{-}AAD^{-}$ HCs, $CD45^{-}CD31^{+}Ter119^{-}7\text{-}AAD^{-}$ endothelial cells (ECs), and $CD45^{-}CD31^{-}Ter119^{-}7\text{-}AAD^{-}$ NCs in E14.5 FL. **c** Violin plots showing the numbers of transcripts, numbers of genes, mitochondria count percentage, and UMI per gene of all cells. **d** UMAP visualization of all cell clusters from E11.5 to E14.5 FL. **e** The cell numbers of 21 cell clusters captured by 10x Genomics in FL. **f** Dot plots showing the expression of known marker genes in all cell types. **g** Percentage of each cell type among the developing FL stages. Colors indicate cell types as shown in (Fig. 1b).