| Dataset | | | Figure | ds for integration of SS2 and 10X datasets from Tabula Muris, Tabula Microcebus and Human Lung Cell Atlas. Method | | | | | | | | |
|-----------------------|---------|-----------------|-----------------------|--|-------------------|------------------------------|--|--|---|--------------------------------|-----------------|--|
| | | | | scVI | ZINB-WaVE | BBKNN | BUSseq | LIGER | Harmony | MNN | Scanorama | |
| | Aorta | | Supplementary Fig. 8 | inadequate mixing | inadequate mixing | | | | inappropriate mixing of the cardiac muscle cells and erythrocytes | | | |
| Tabula Muris | | Bladder | Supplementary Fig. 9 | inadequate mixing | inadequate mixing | inadequate mixing | inadequate mixing | | | | | |
| | | Limb muscle | Supplementary Fig. 10 | inadequate mixing | inadequate mixing | inadequate mixing | | | | | | |
| | | Liver | Supplementary Fig. 11 | inadequate mixing | inadequate mixing | | | | | | | |
| | | Lung | Supplementary Fig. 12 | inadequate mixing | inadequate mixing | | inadequate mixing | | | | | |
| | | Mammry gland | Figure 2 | inadequate mixing | inadequate mixing | inadequate mixing Iow ARI | | inappropriate mixing of the B cells, macrophages and T cells | | | | |
| | | Marrow | Supplementary Fig. 13 | inadequate mixing | inadequate mixing | | discretization of the granulocytes and granulocytopoietic cells | | | | | |
| | | Spleen | Supplementary Fig. 14 | | | | | | | | inadequate mixi | |
| | | | Supplementary Fig. 15 | | inadequate mixing | | discretization of the mesenchymal cells | | discretization of the mesenchymal cells | | | |
| Tabula ⁄licrocebus | lemur 1 | Blood | Supplementary Fig. 16 | inadequate mixing | | | discretization of the neutrophils | | discretization of the neutrophils | small clusters and low ARIs | | |
| | | Brain | Supplementary Fig. 17 | inadequate mixing | | | | | | small clusters and low ARIs | | |
| | | Lung | Supplementary Fig. 18 | inadequate mixing | | | | | discretization of the neutrophils | small clusters and low ARIs | | |
| | lemur 2 | Bladder | Supplementary Fig. 19 | inadequate mixing | | | | | | small clusters and low ARIs | | |
| | | Blood | Supplementary Fig. 20 | inadequate mixing | | inadequate mixing | discretization of the neutrophils | | inappropriate mixing of the capillary cells and neutrophils | | | |
| | | Bone marrow | Supplementary Fig. 21 | inadequate mixing | inadequate mixing | | | | discretization of the neutrophils | | | |
| | | - | Supplementary Fig. 22 | | | | | | | | | |
| | | | Supplementary Fig. 23 | | | | inadequate mixing | | | | | |
| | | Spleen | Supplementary Fig. 24 | inadequate mixing | inadequate mixing | inadequate mixing | inadequate mixing | | | | inadequate mi> | |
| | lemur 4 | | Supplementary Fig. 25 | | | | | | | | | |
| | | Bone | Supplementary Fig. 26 | inadequate mixing | inadequate mixing | | | | | | | |
| | | Bone marrow | Supplementary Fig. 27 | | | | discretization of cells of the same type | | | | | |
| | | Eye retina | Supplementary Fig. 28 | inadequate mixing | | | inadequate mixing | | | | | |
| | | _, | | | | 1 | | | small clusters | 1 | | |

| Tabula Microcebus | lemur 4 | Kidney | Supplementary Fig. 30 | | | | | inappropriate mixing of the subtypes of natural killer cells and the T-cells | | | |
|----------------------|-----------|--------------------|-----------------------|-------------------|-------------------|-------------------|---|--|---|--------------------------------|-------------------|
| | | Liver | Supplementary Fig. 31 | inadequate mixing | | | | | small clusters | | |
| | | Pancreas | Supplementary Fig. 32 | inadequate mixing | | | | | | small clusters and low ARIs | |
| | | Small intestine | Supplementary Fig. 33 | inadequate mixing | inadequate mixing | | | inappropriate mixing of the subtypes of natural killer cells and the T-cells | | | |
| | | Spleen | Supplementary Fig. 34 | inadequate mixing | inadequate mixing | | | | inappropriate mixing of the eosinophils and B cells | | inadequate mixing |
| | | Testes | Supplementary Fig. 35 | inadequate mixing | inadequate mixing | | discretization of the pachytene spermatocytes, round spermatids, elongating spermatids, and elongated spermatids | | | | |
| | | Tongue | Supplementary Fig. 36 | inadequate mixing | | | | inappropriate mixing of the basal cells and the suprabasal cells | | | |
| Humar | n Lung Ce | ell Atlas | Supplementary Fig. 37 | inadequate mixing | inadequate mixing | inadequate mixing | inadequate mixing | inappropriate mixing of the natural killer cells and the T-cells | | | |