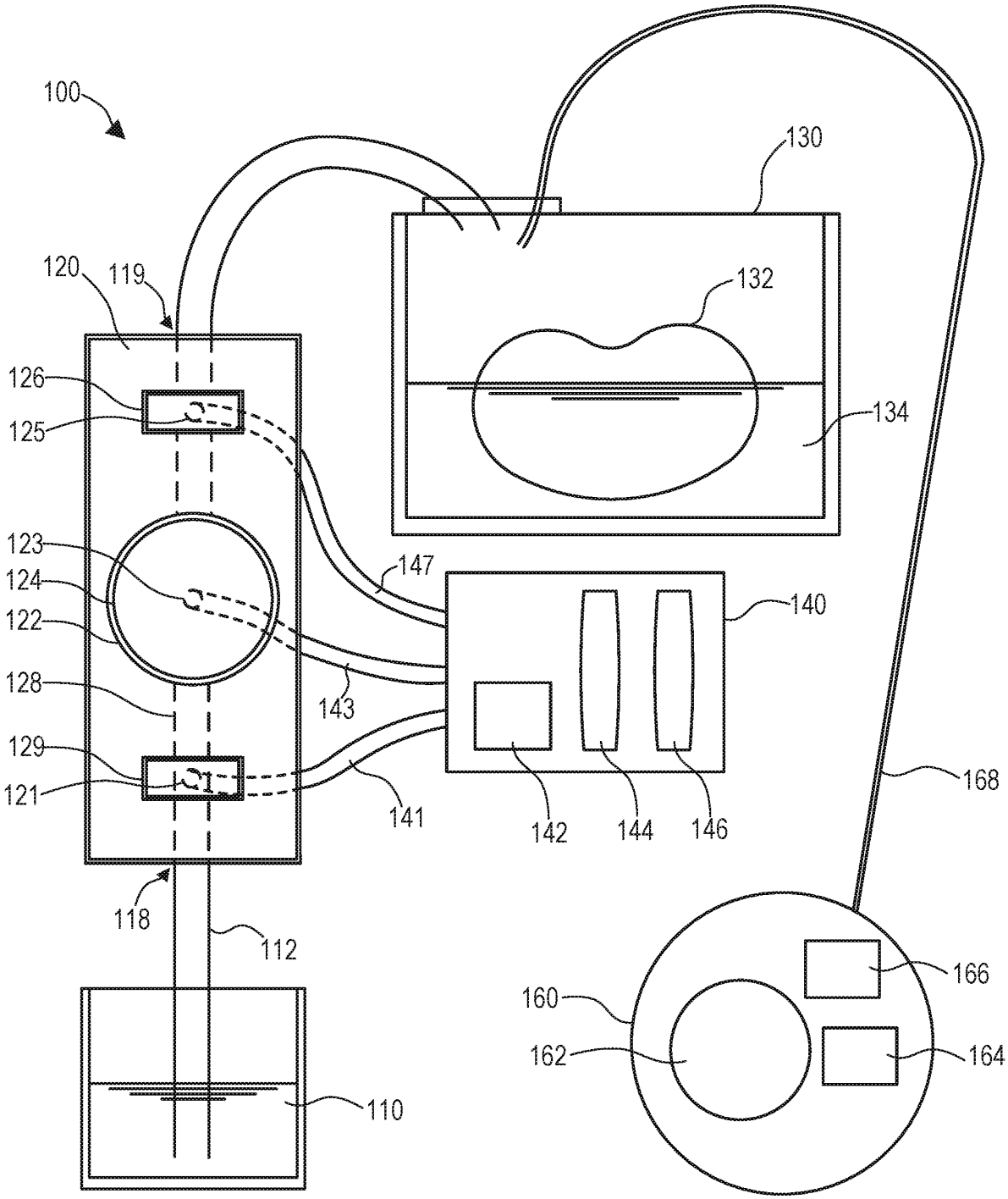

100
130
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164
110

FIG. 1

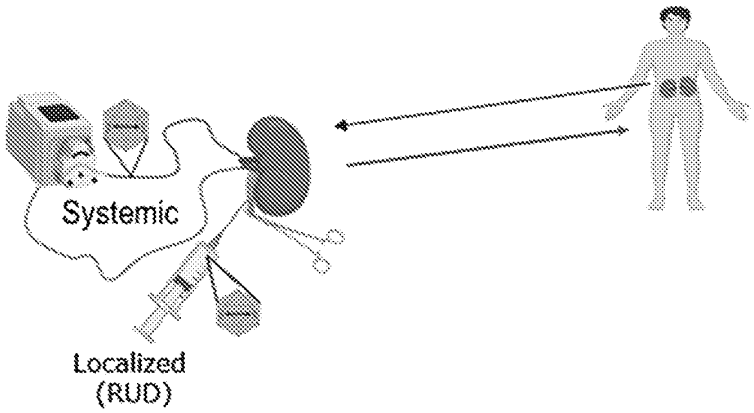
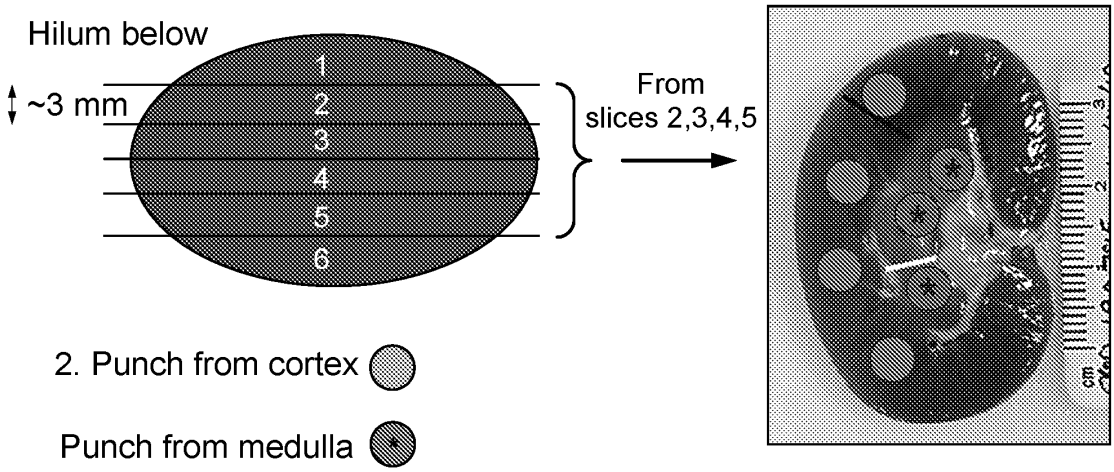


FIG. 2

1. Slice kidney 3-5 mm



2. Punch from cortex

Punch from medulla

-size: appr 5x3x3 mm/punch; appr. 25 mg/punch

One slice

3. Snap freeze (NO fixation), store at -70oC
-for bulk tissue sequencing
-for single nucleus RNA sequencing
4. Snap freeze punched kidney

FIG. 3

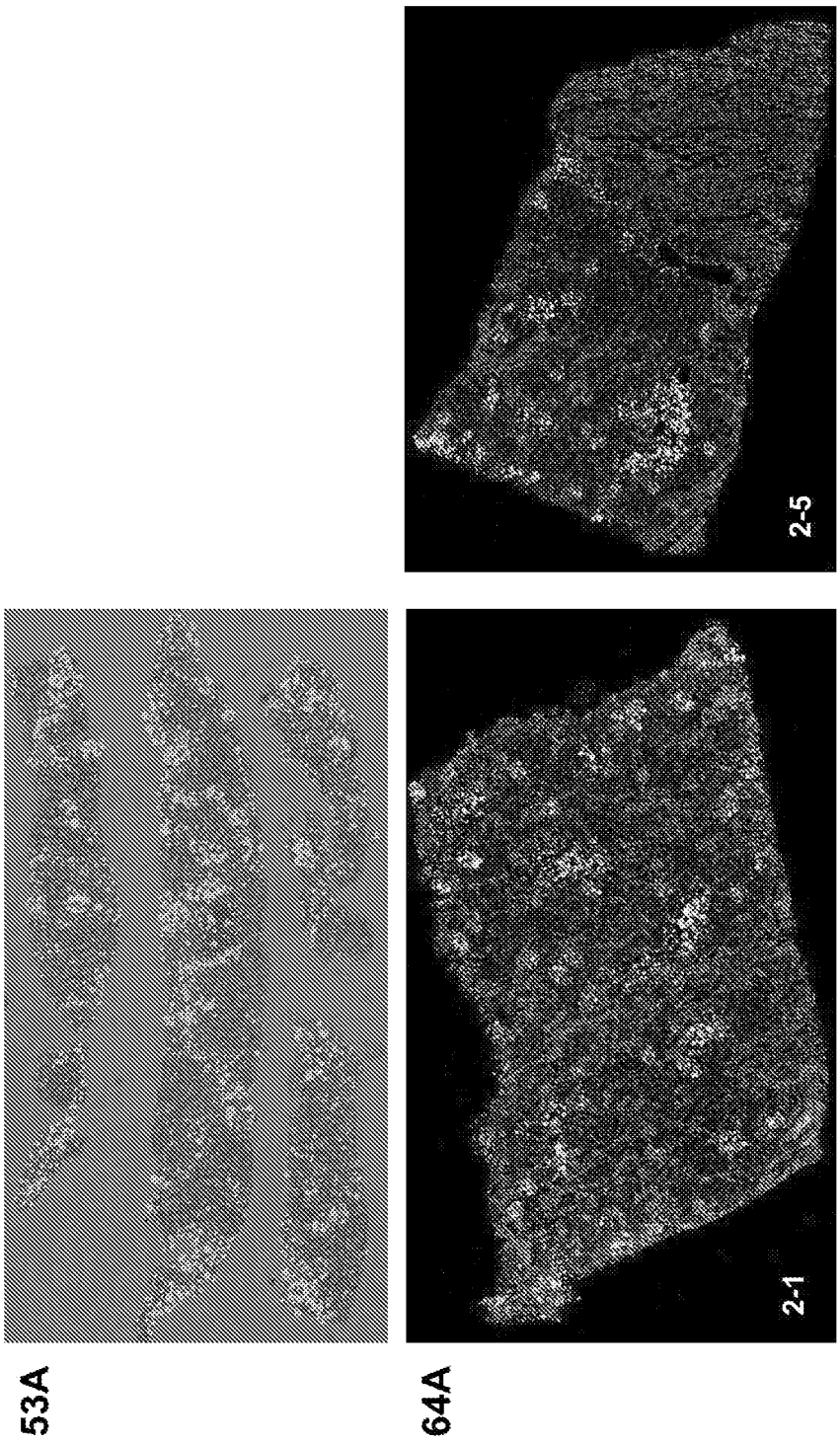


FIG. 4

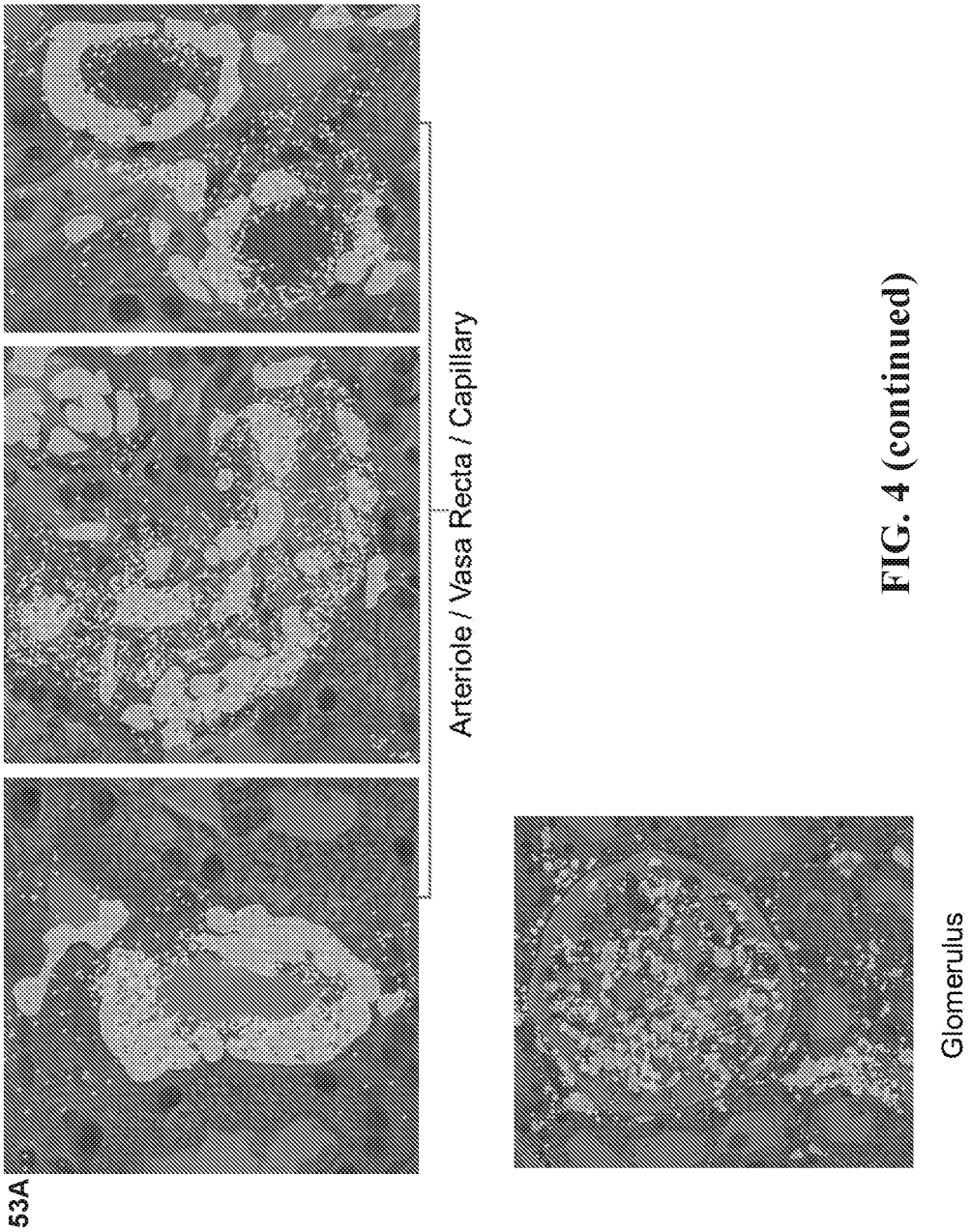


FIG. 4 (continued)

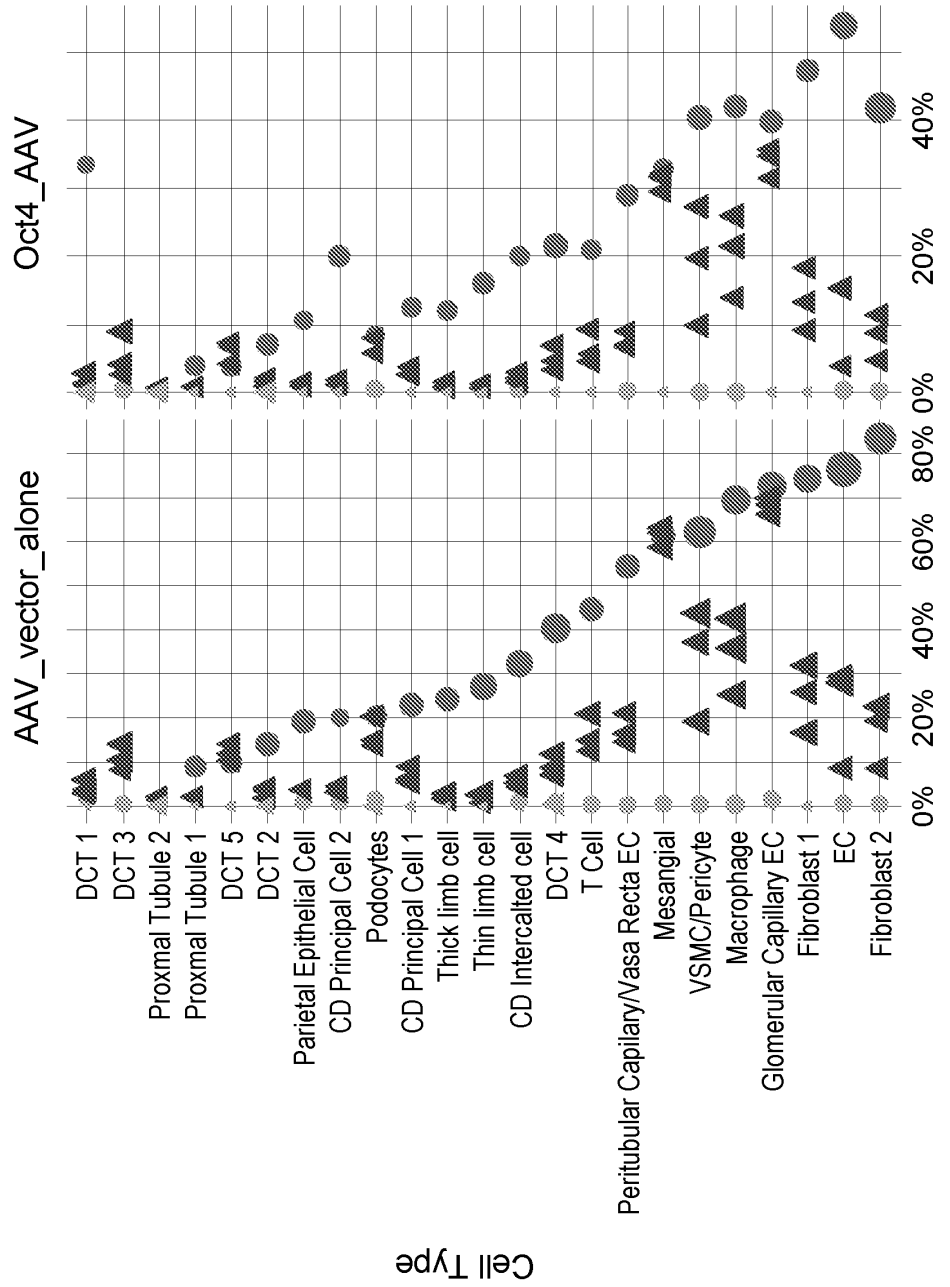

AAV_vector_alone
Oct4_AAV
DCT 1
DCT 3
Proxmal Tubule 2
Proxmal Tubule 1
DCT 5
DCT 2
Parietal Epithelial Cell
CD Principal Cell 2
Podocytes
CD Principal Cell 1
Thick limb cell
Thin limb cell
CD Intercalted cell
DCT 4
T Cell
Peritubular Capilary/Vasa Recta EC
Mesangial
VSMC/Pericyte
Macrophage
Glomerular Capillary EC
Fibroblast 1
EC
Fibroblast 2
0% 20% 40% 60% 80% 0% 20% 40%
Percentage
Cell Type

FIG. 5

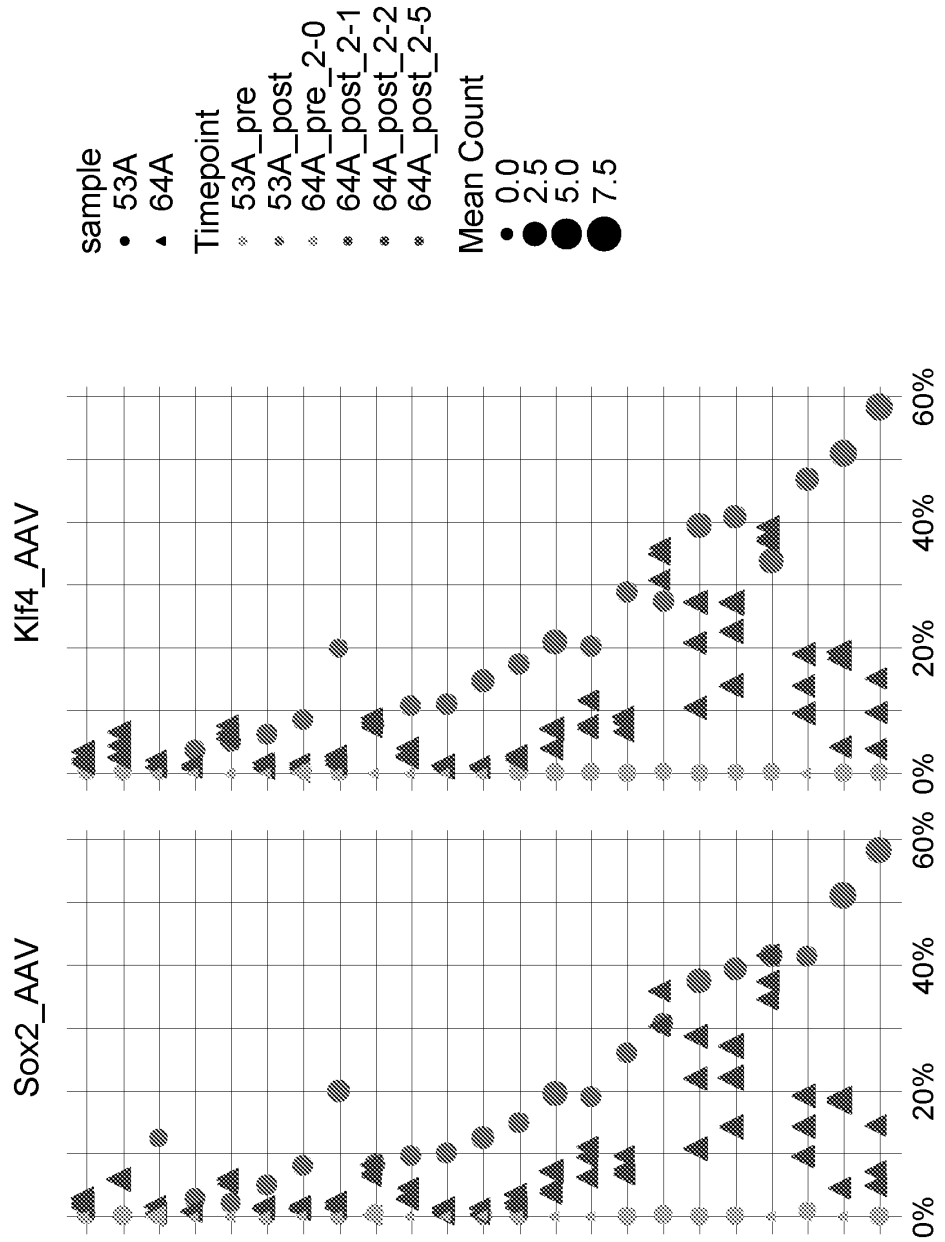


FIG. 5 (continued)