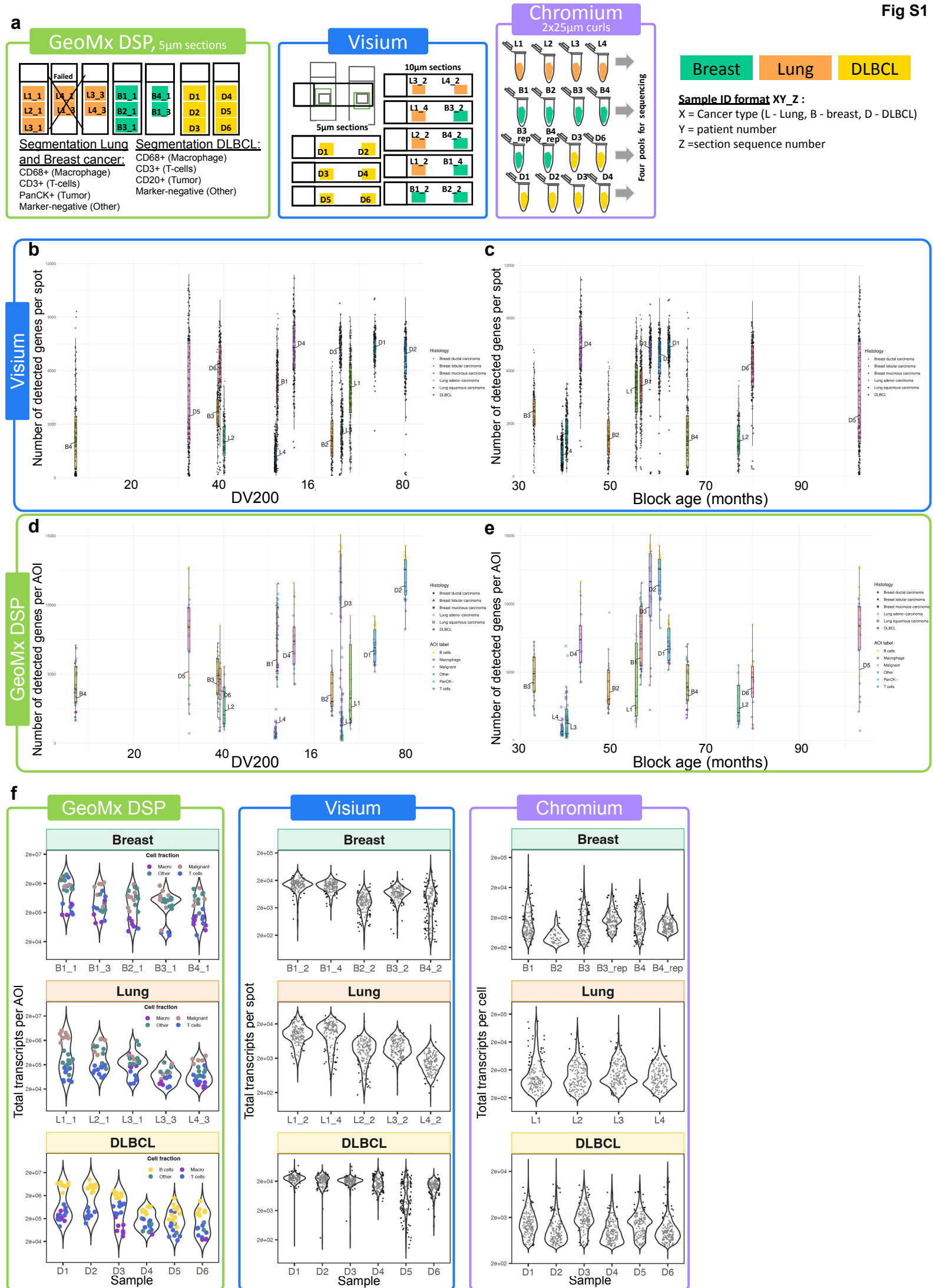
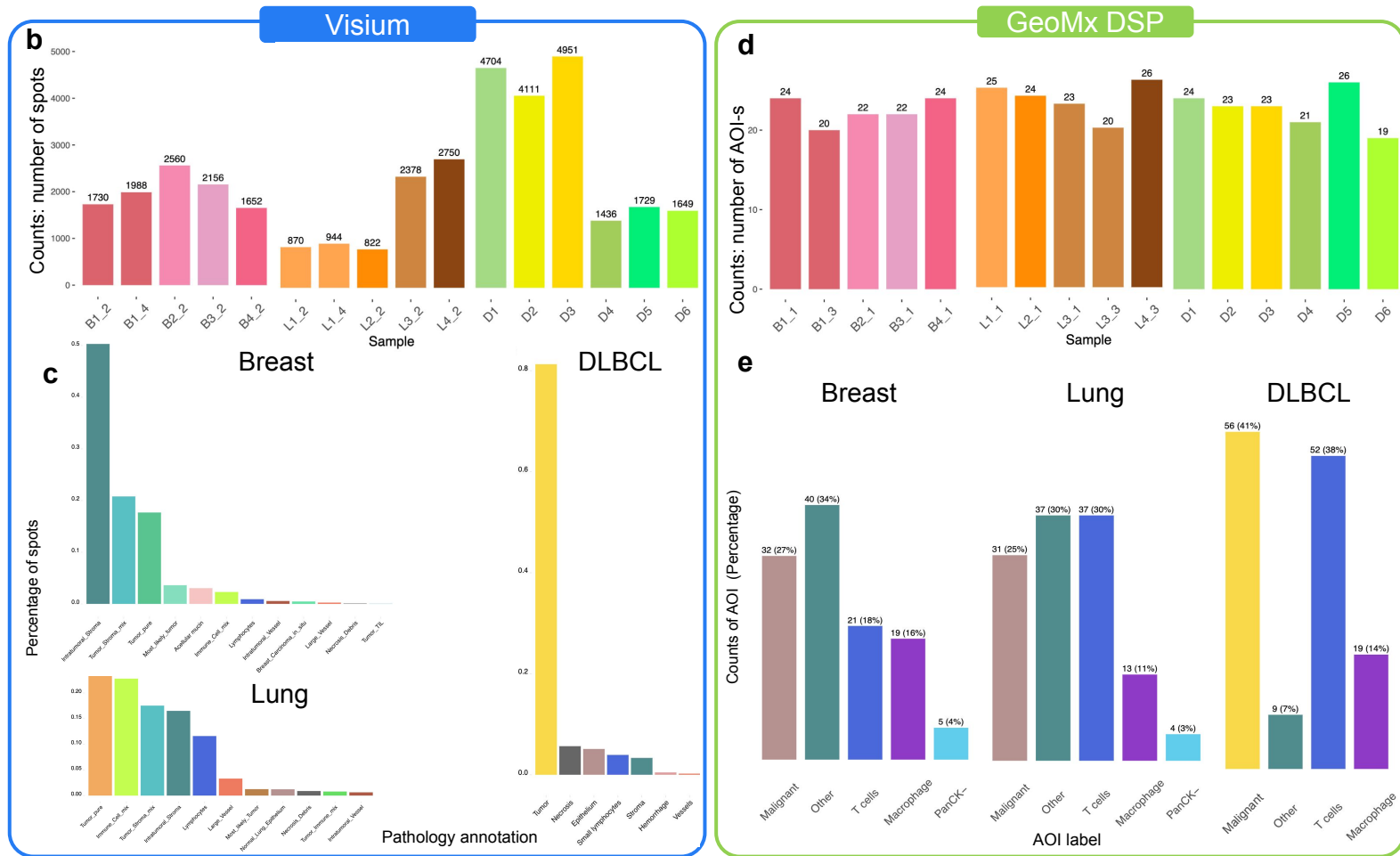
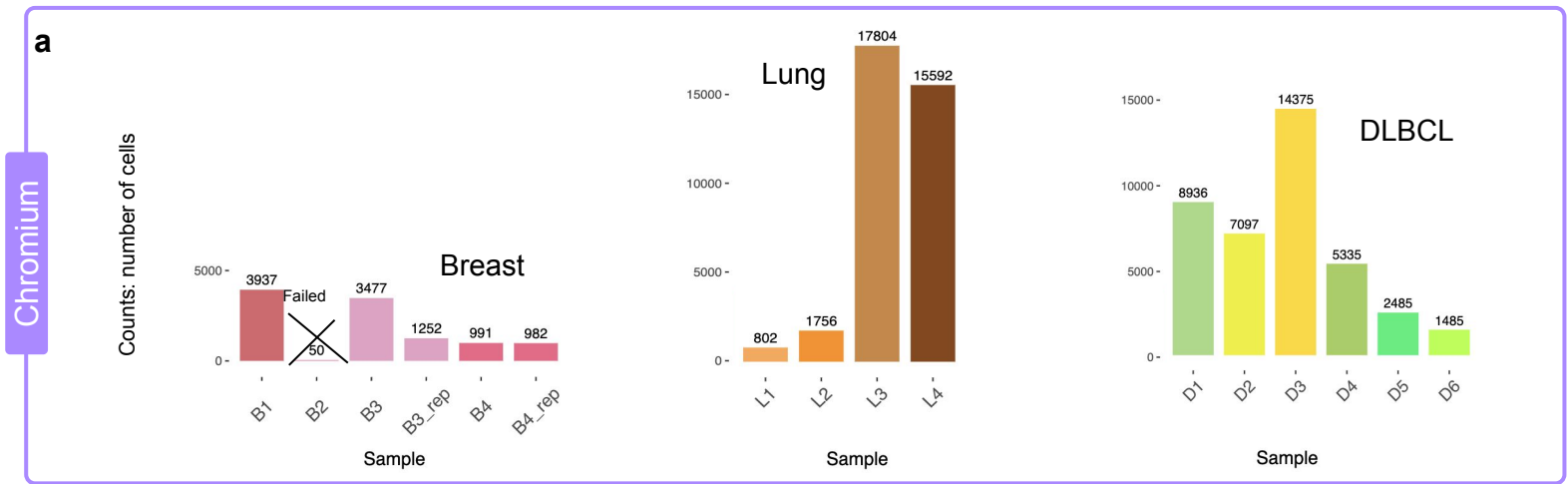
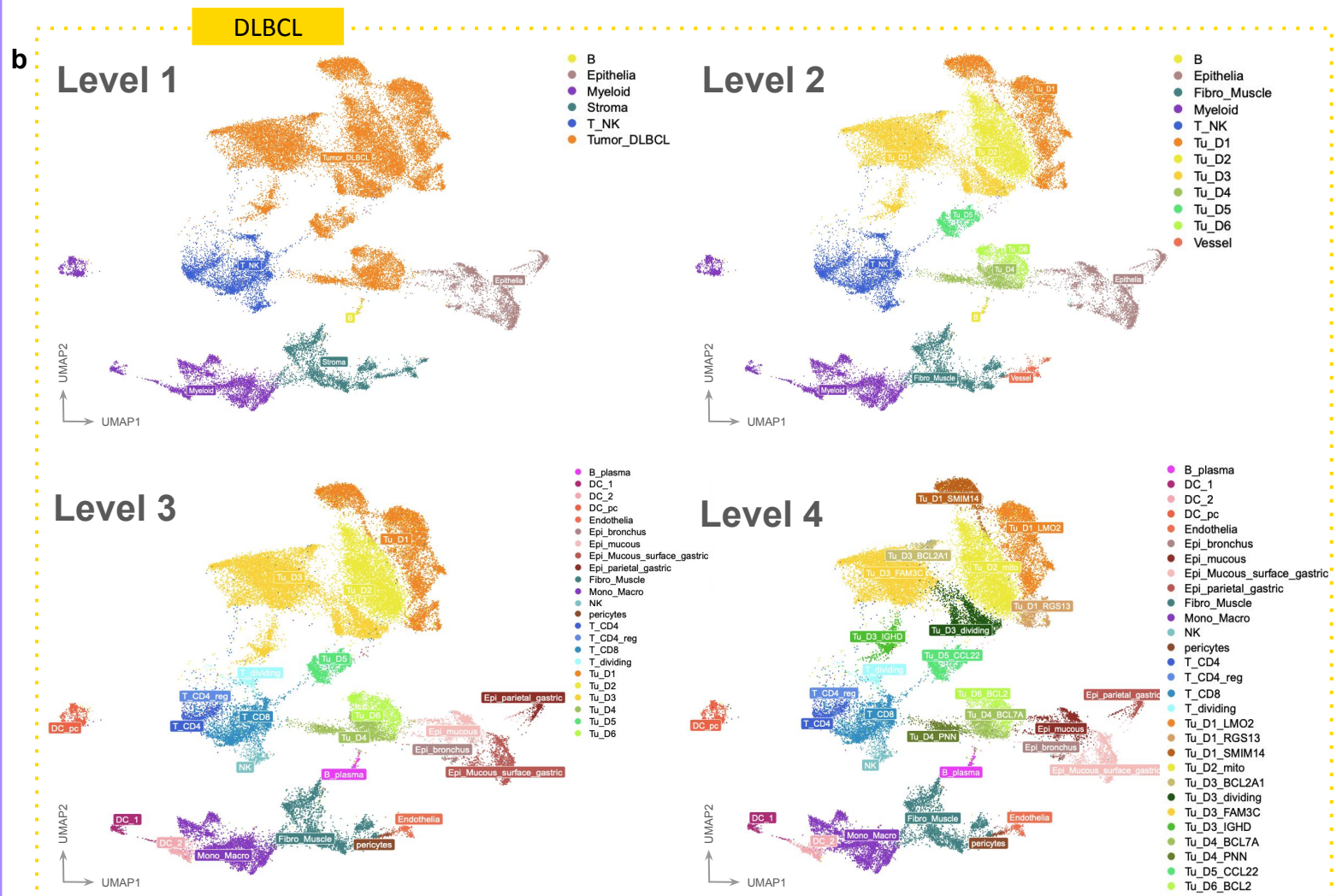
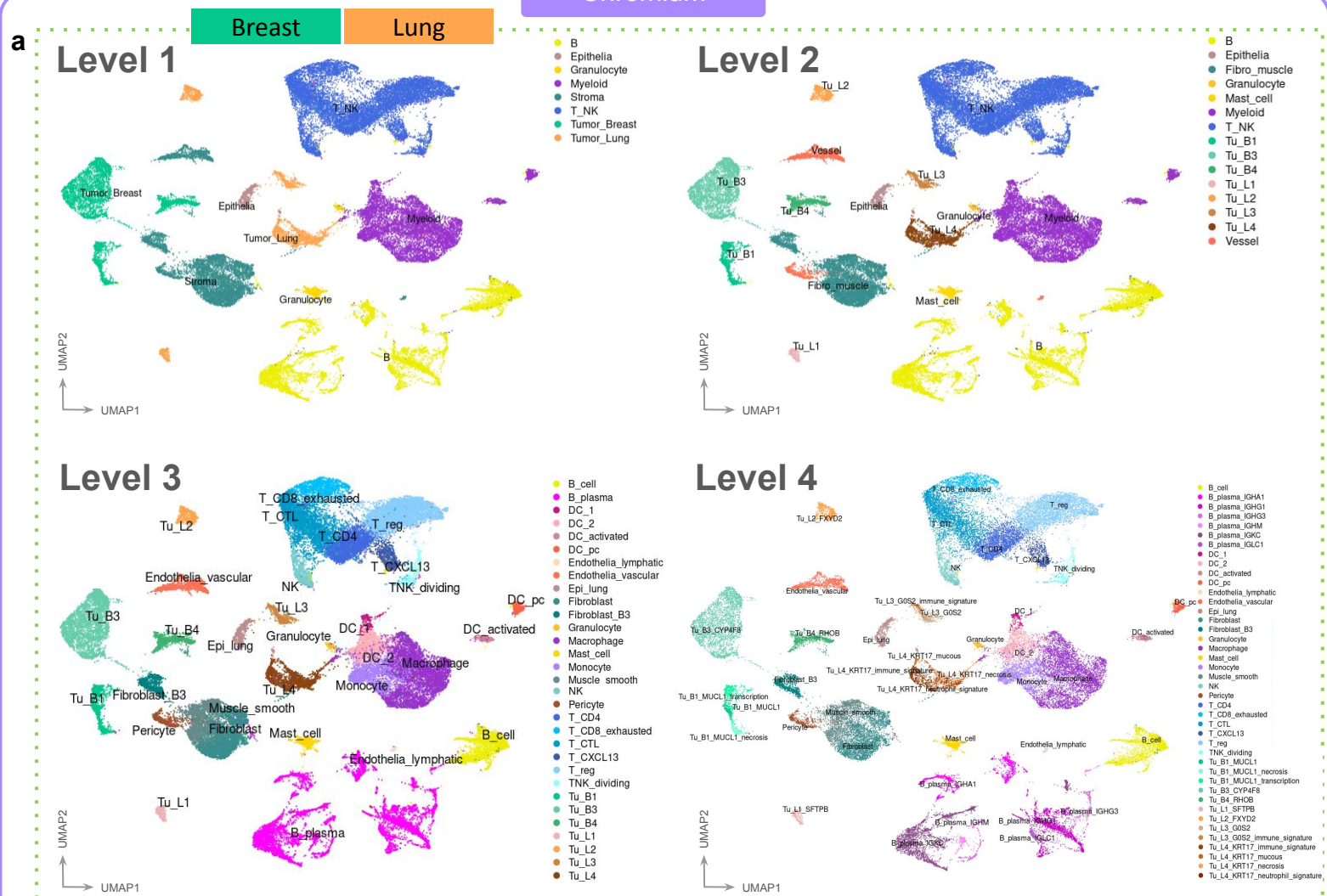
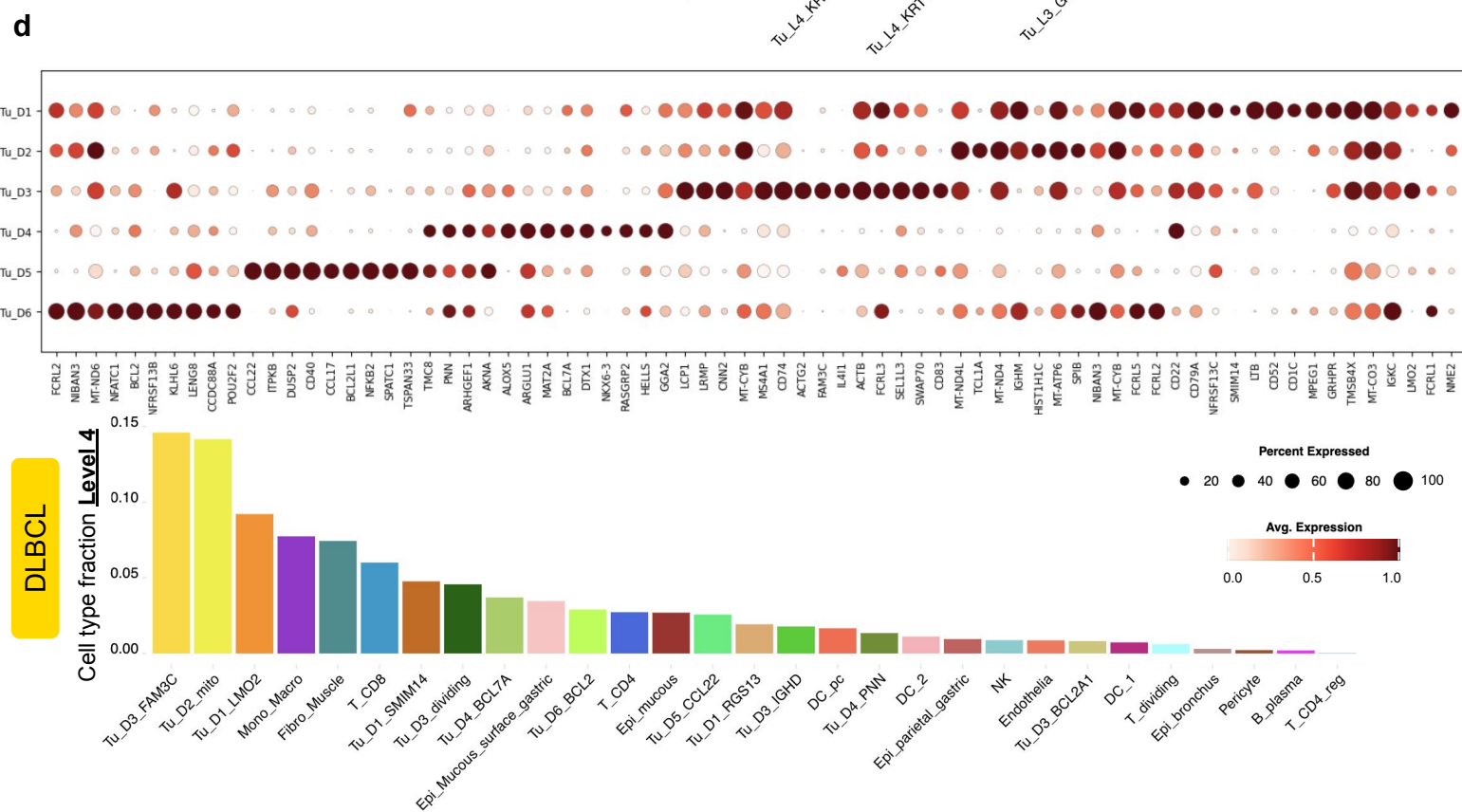
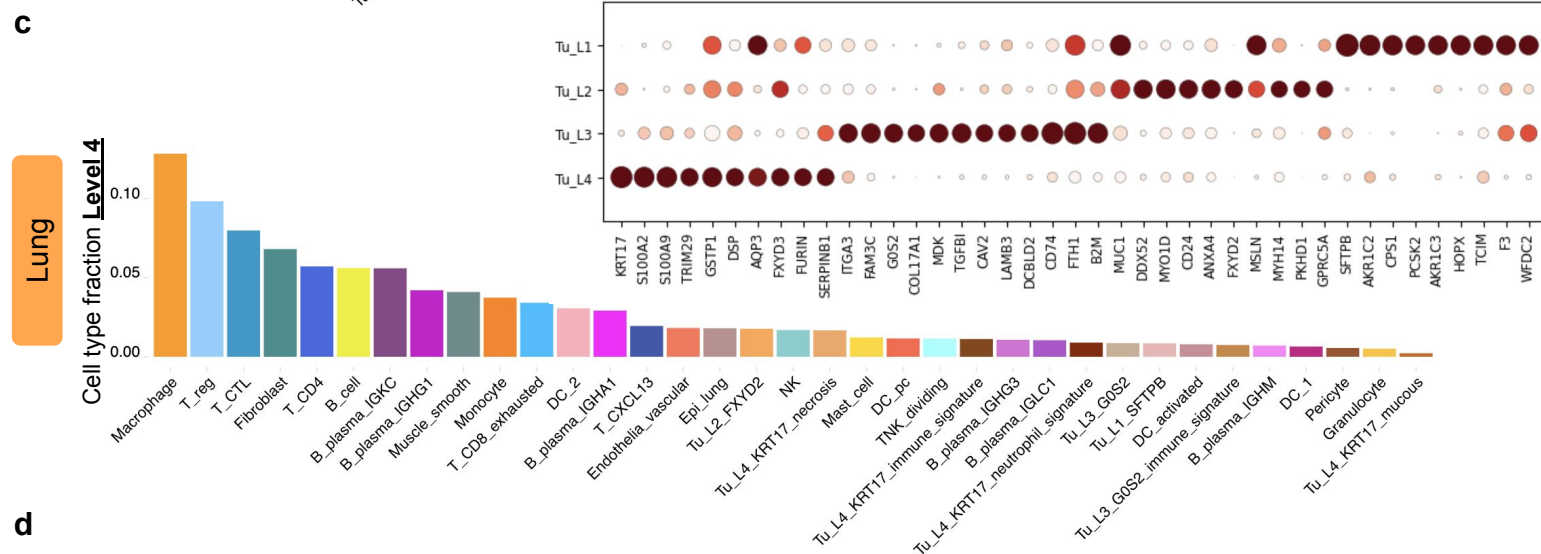
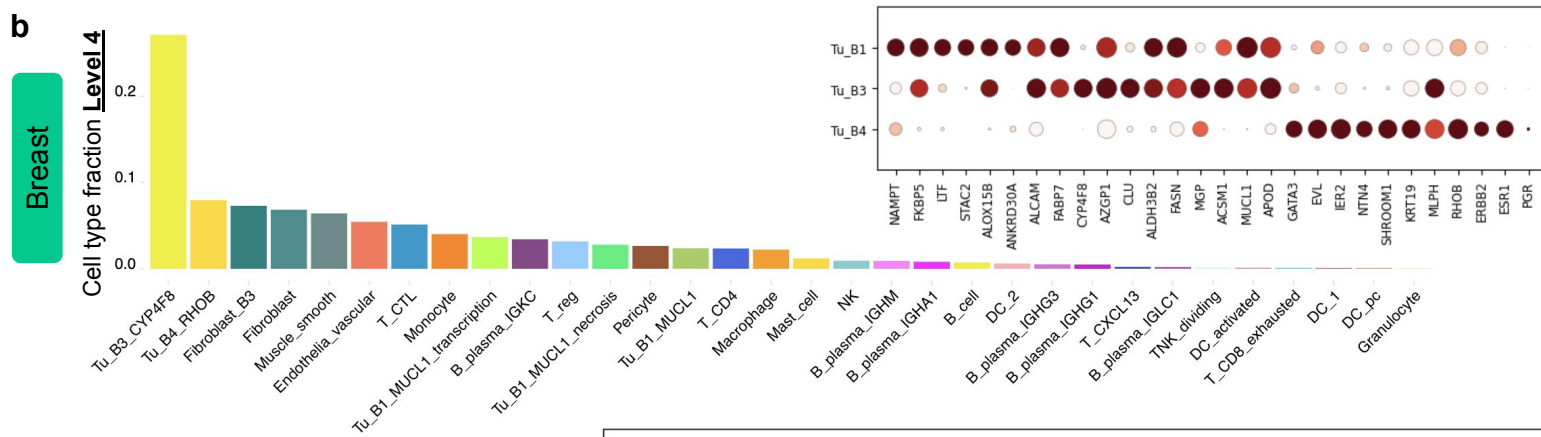
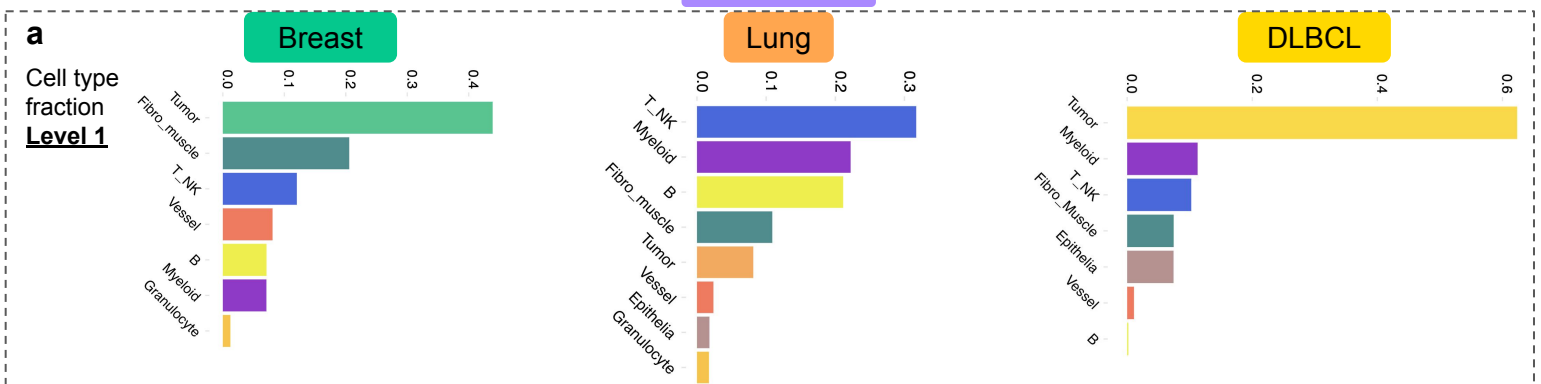




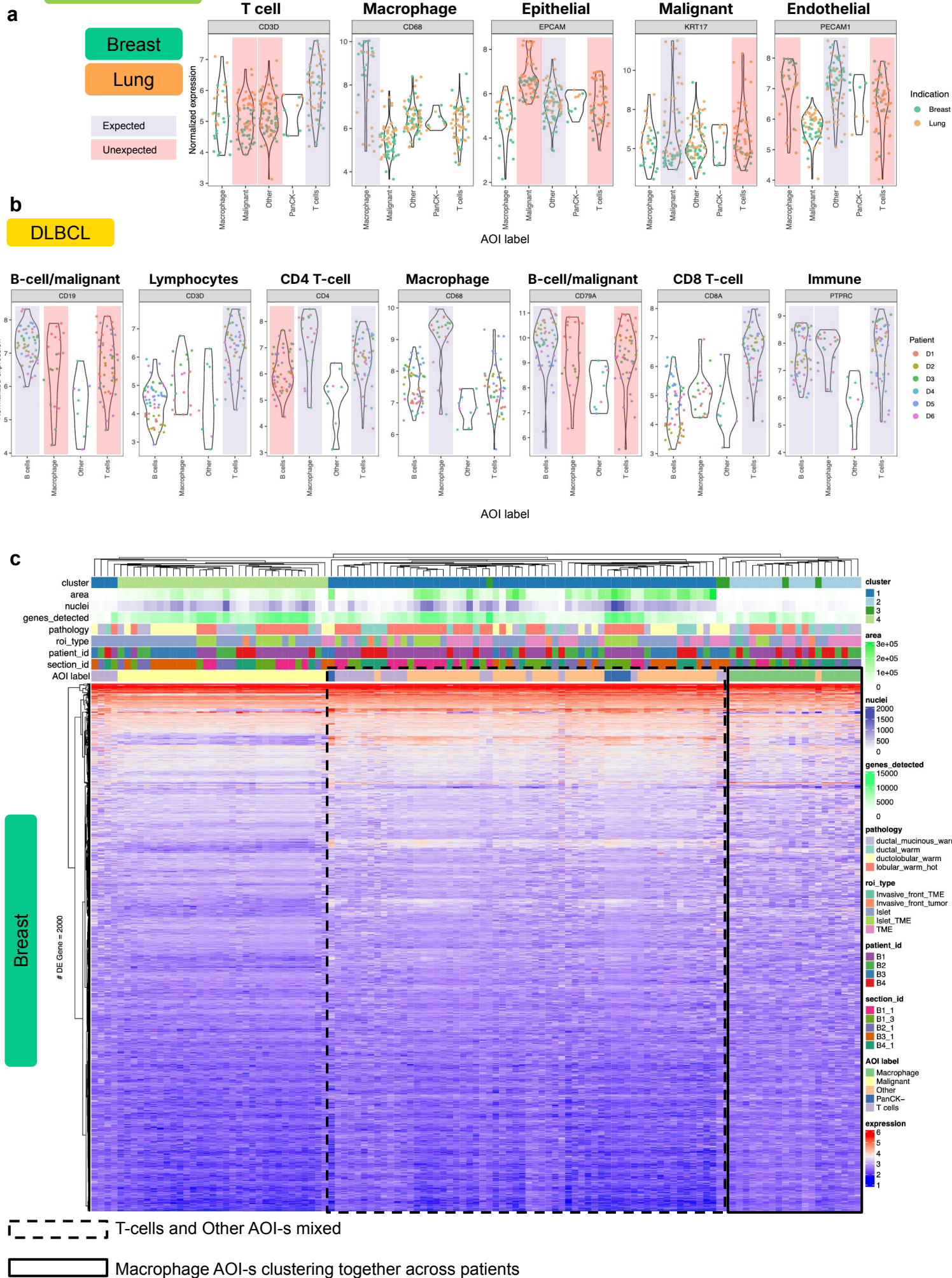


Chromium



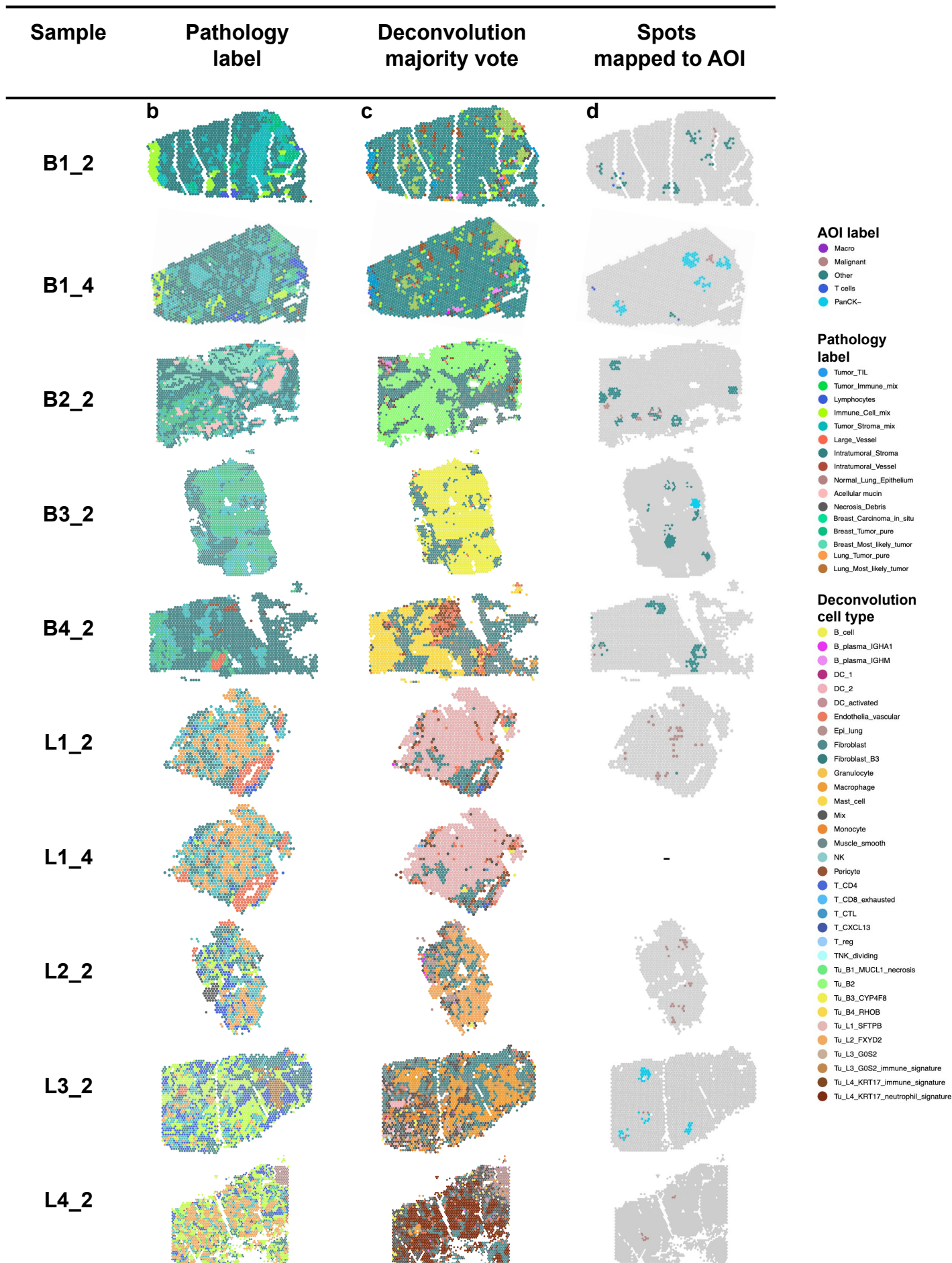


GeoMx DSP

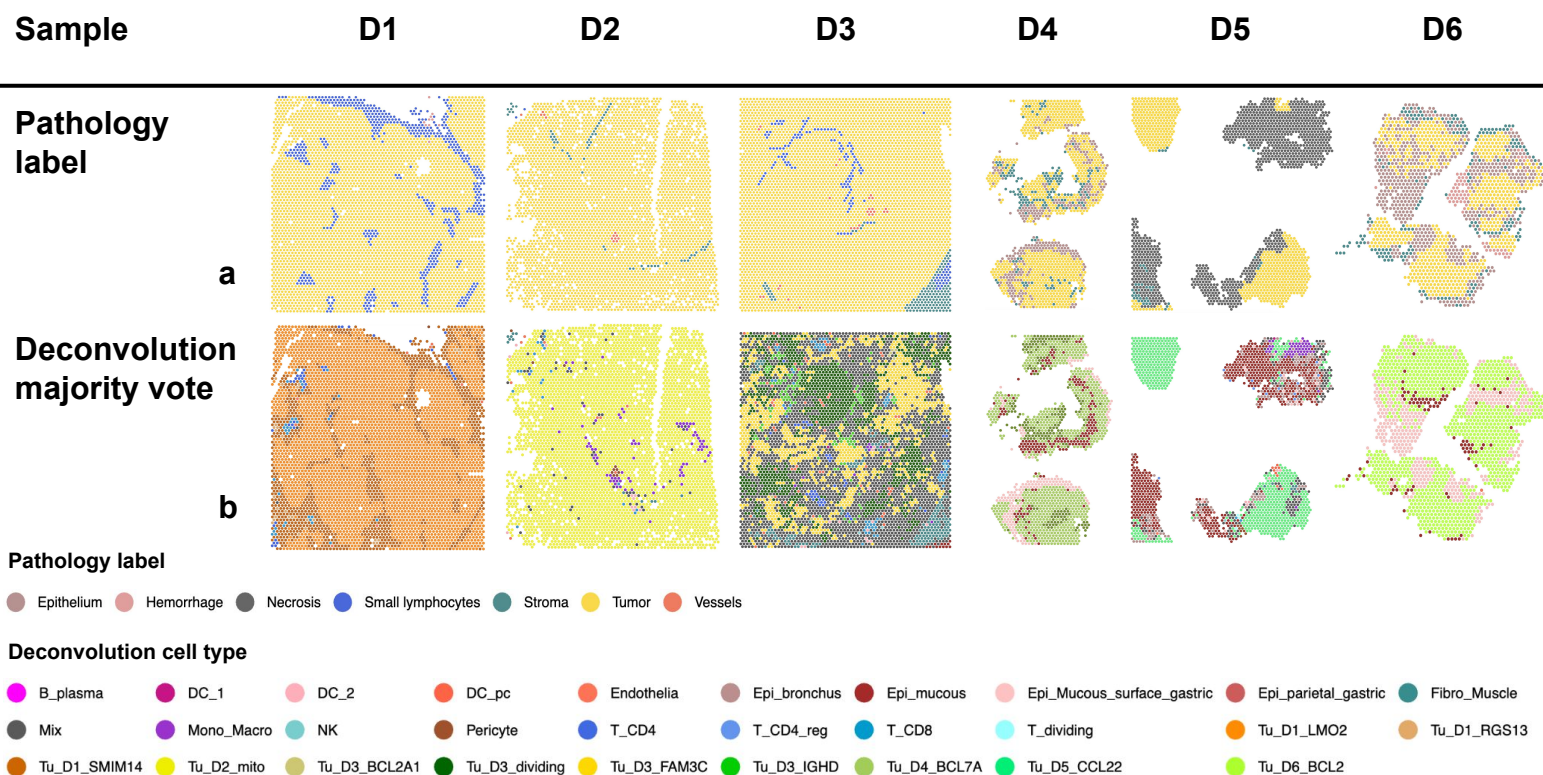


a

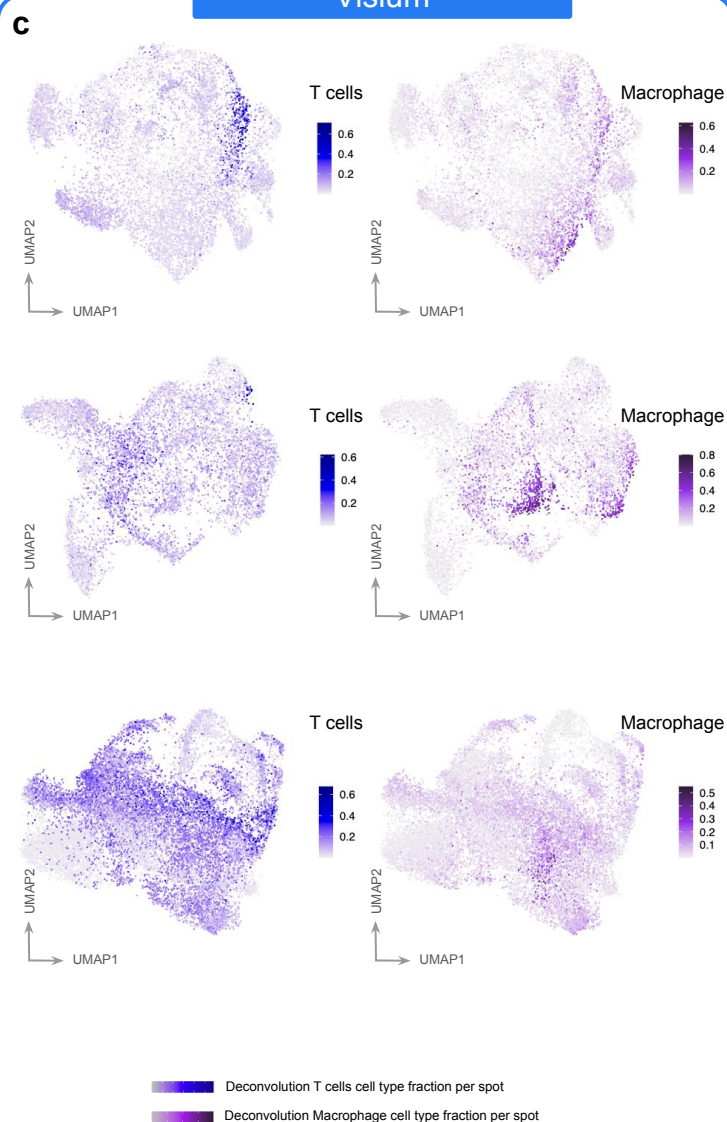
GeoMx	B1_1	B1_3	B2_1	B3_1	B4_1	L1_1	L2_1	L3_3	L4_3
Visium	B1_2	B1_4	B2_2	B3_2	B4_2	L1_2	L2_2	L3_2	L4_2



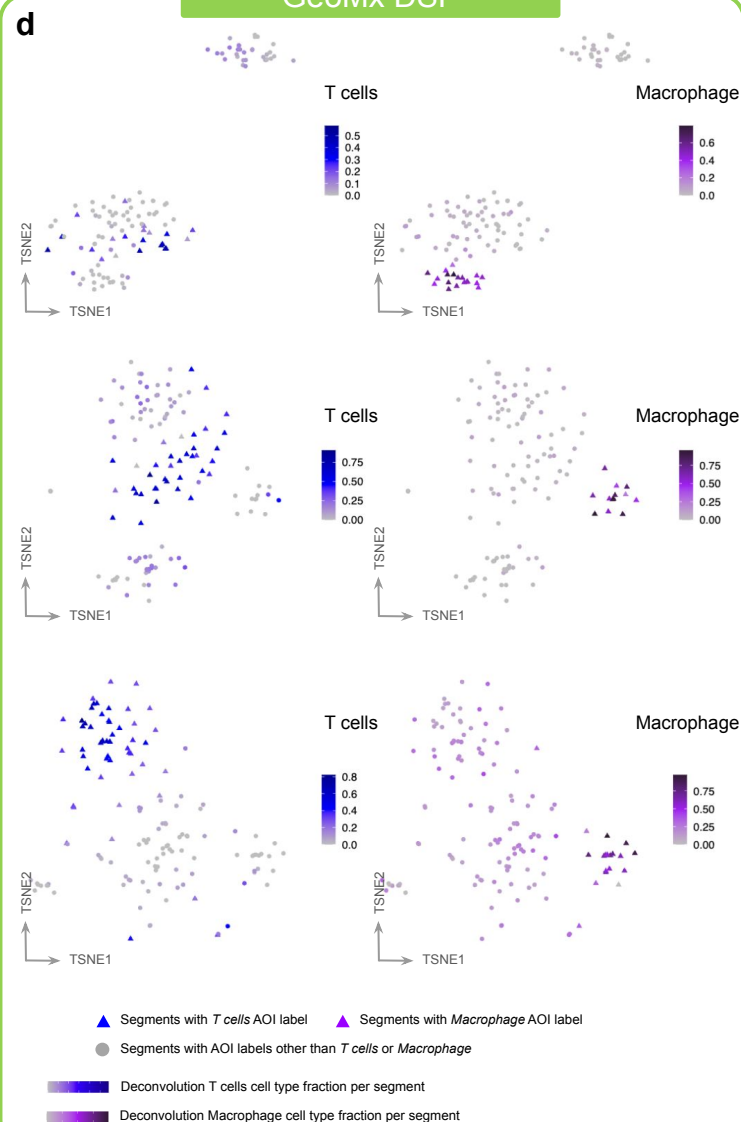
Visium



Visium



GeoMx DSP



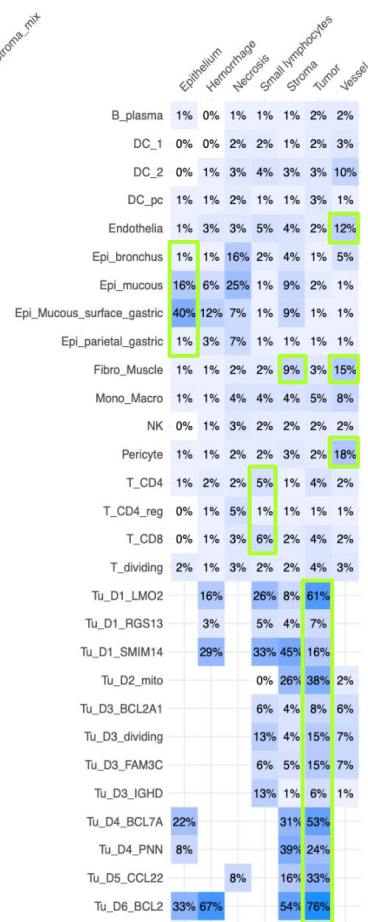
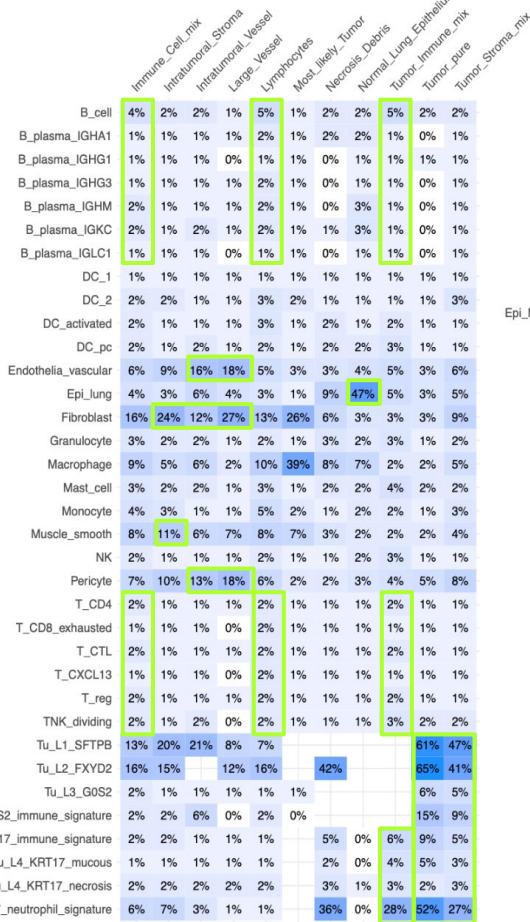
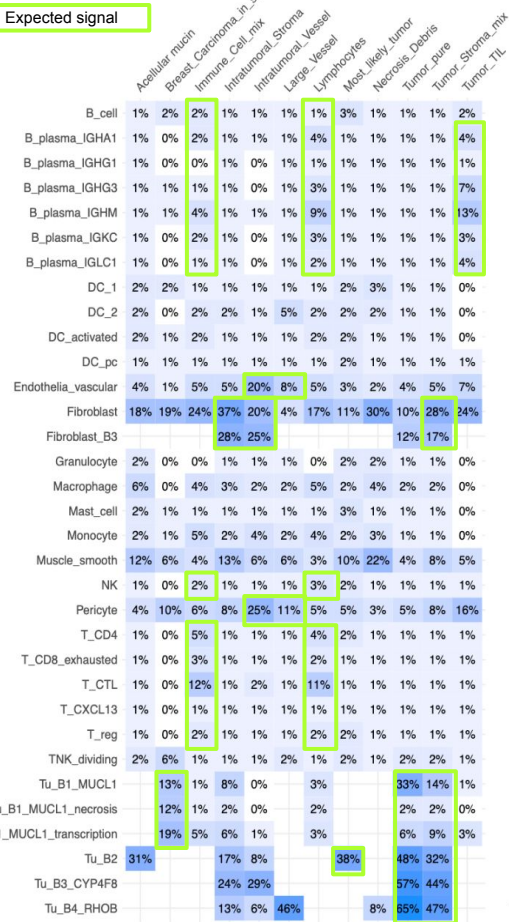
a

Breast

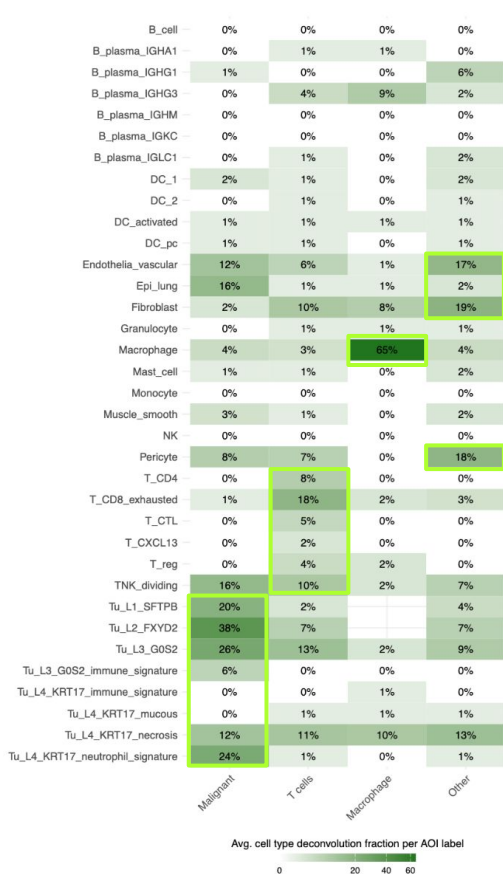
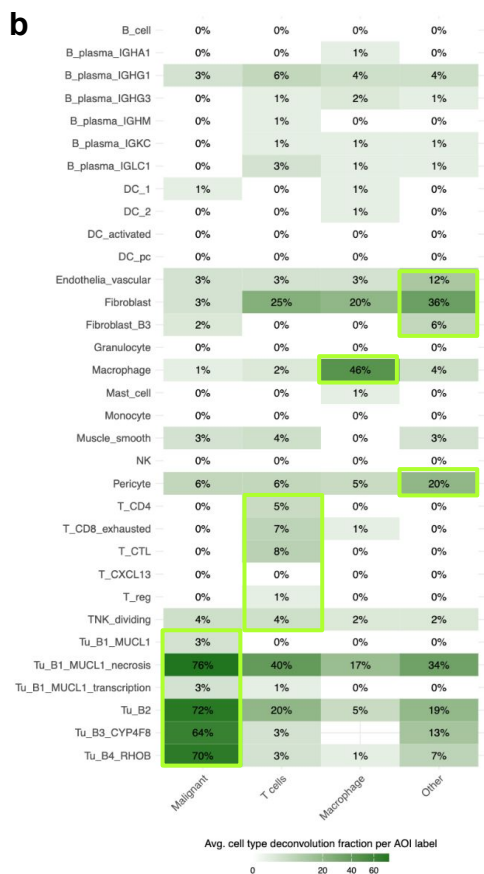
Lung

DLBCL

Expected signal

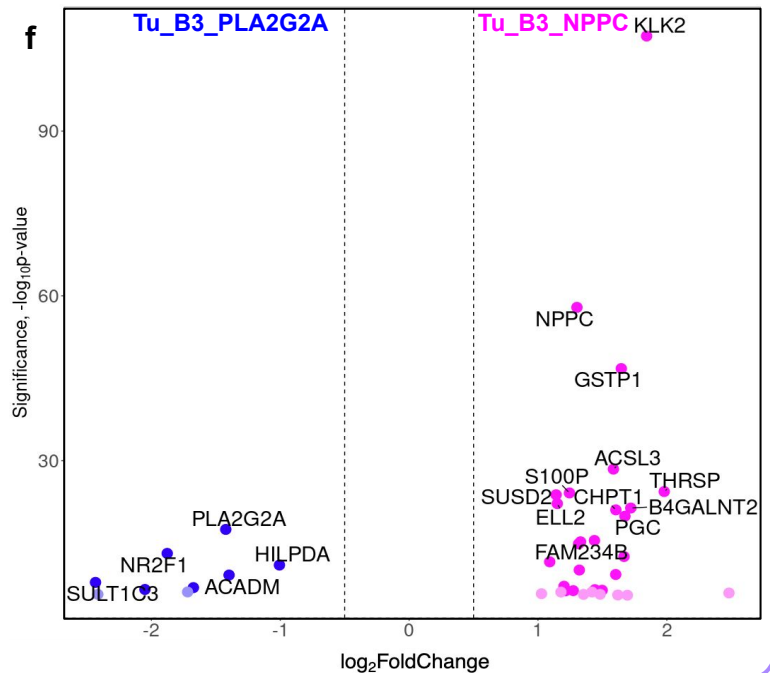
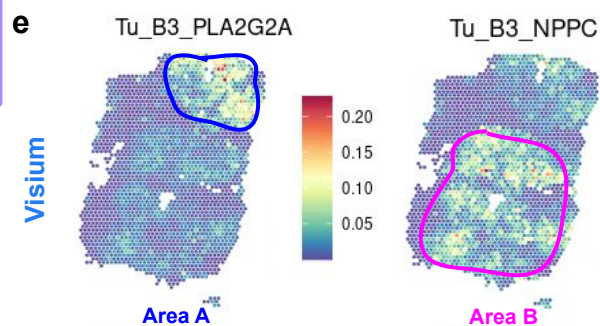
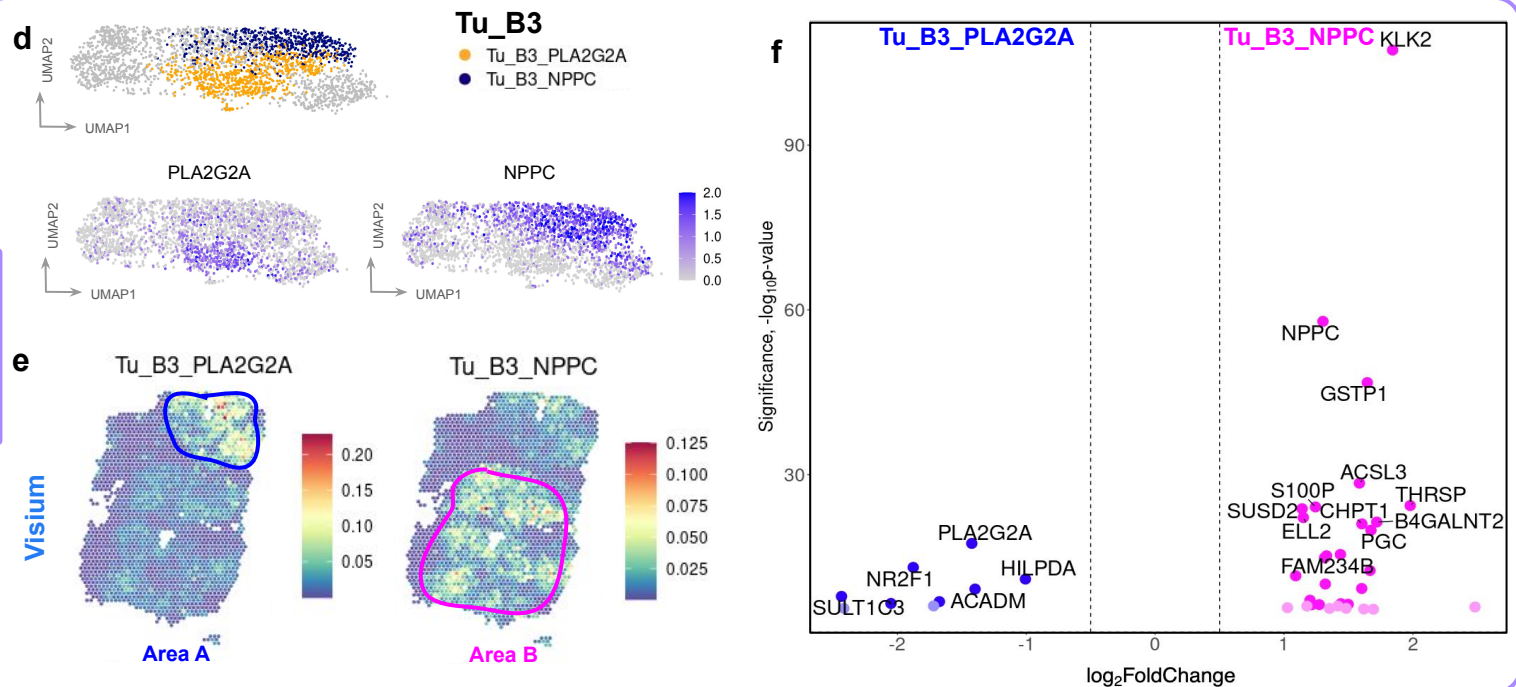
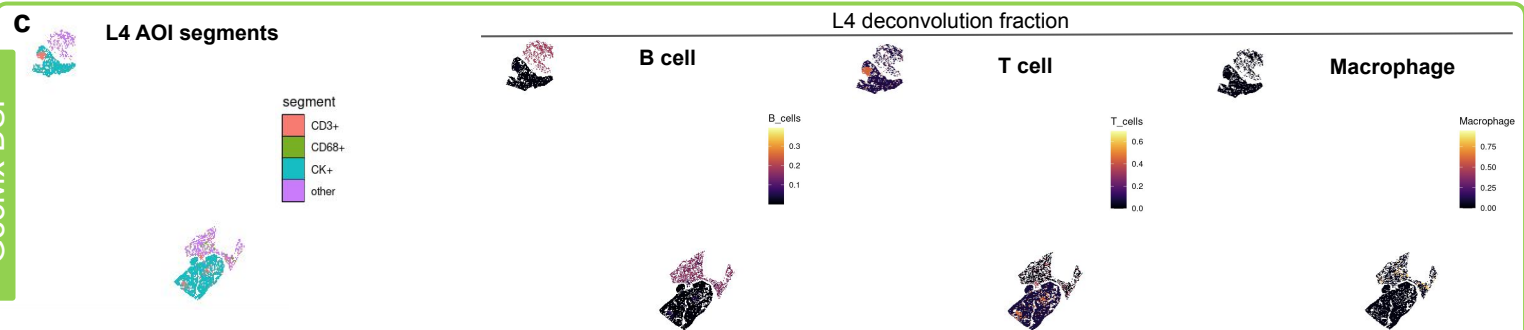
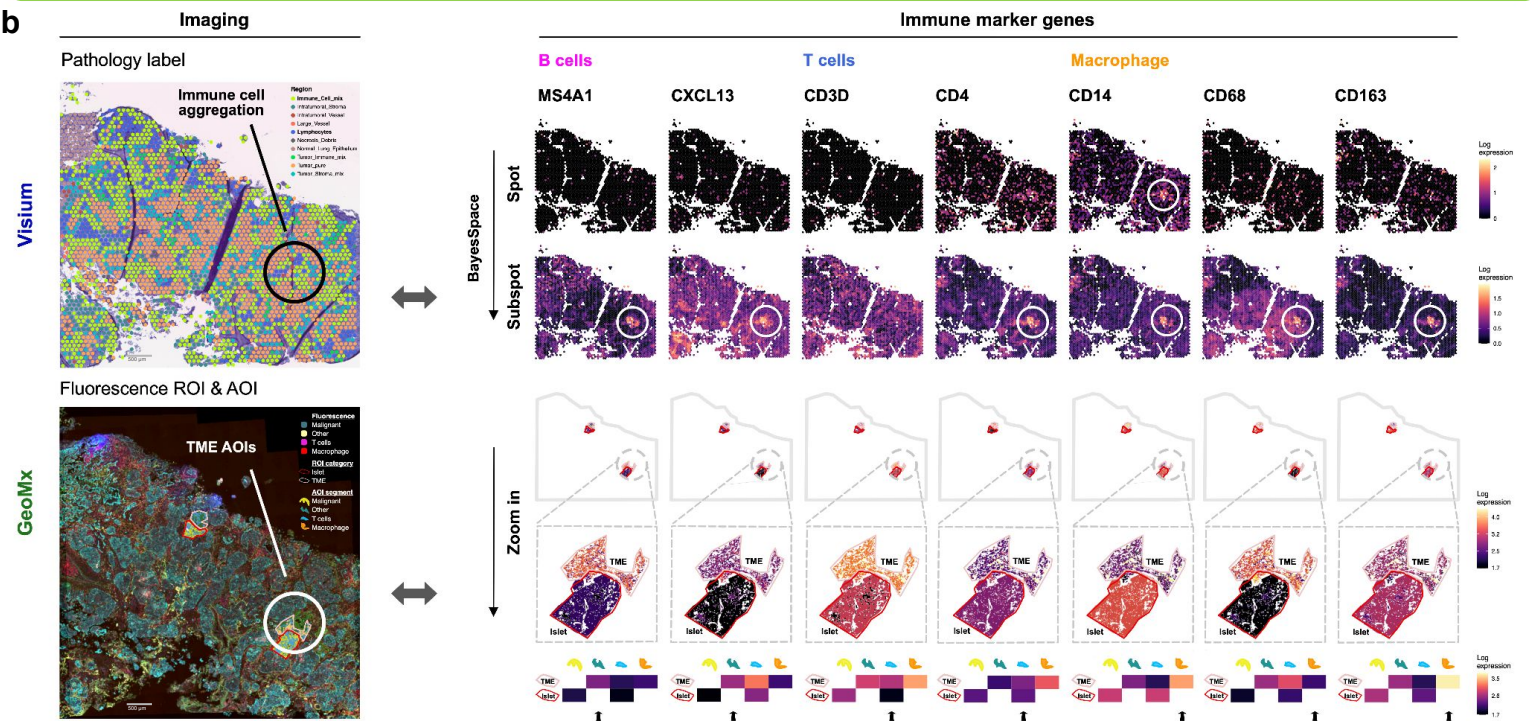
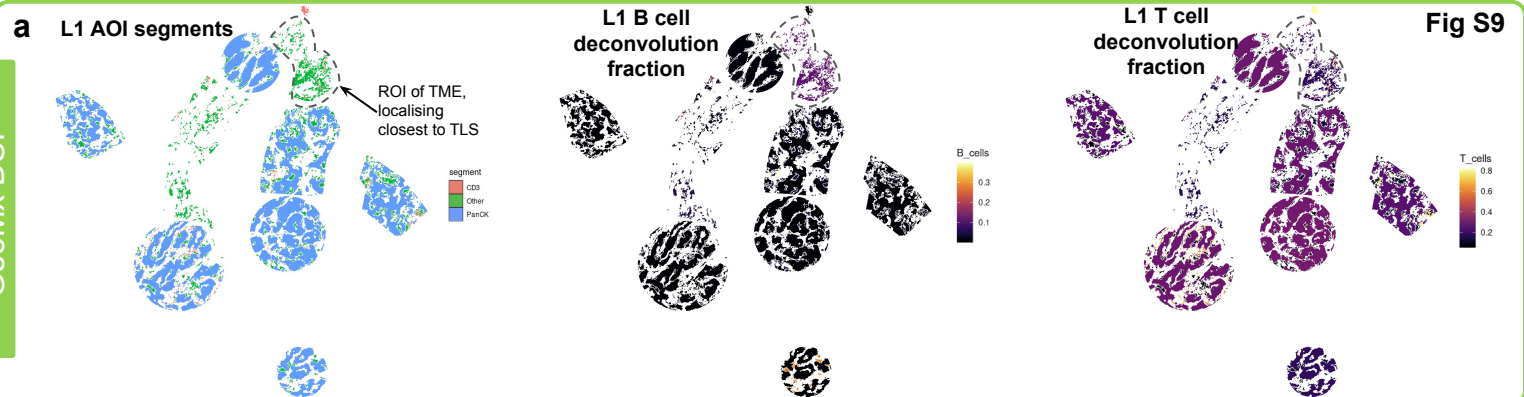


b



Visium

GeoMx DSP



Visium

Breast

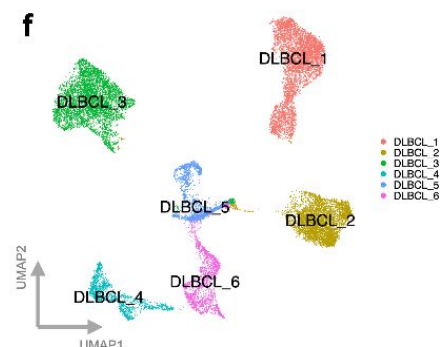
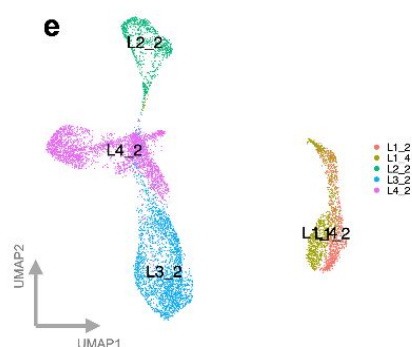
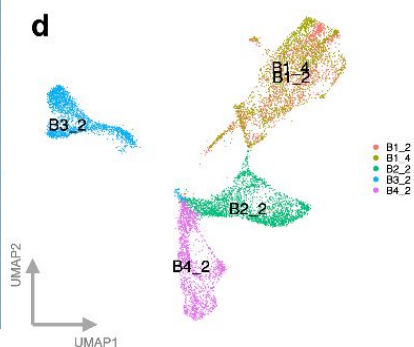
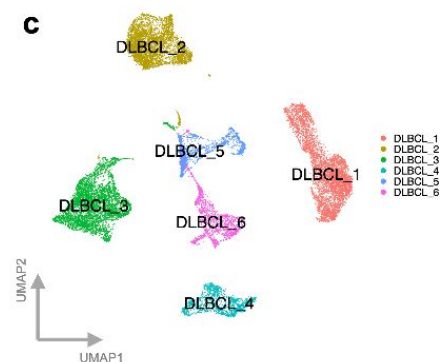
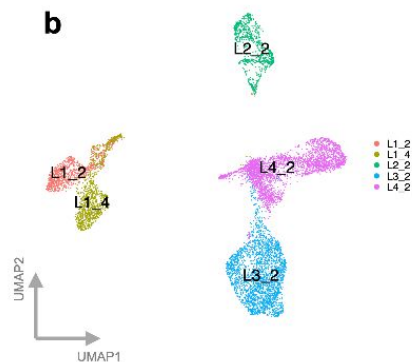
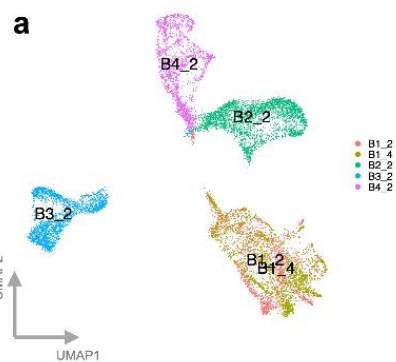
Lung

DLBCL

LogNorm

No SpotClean

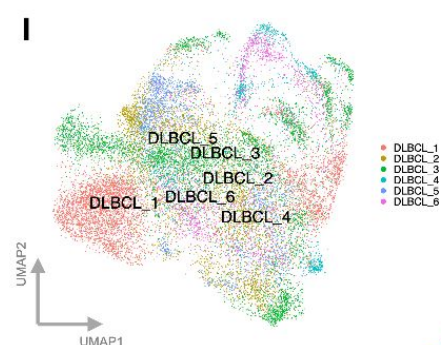
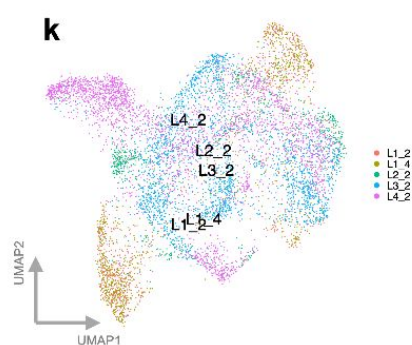
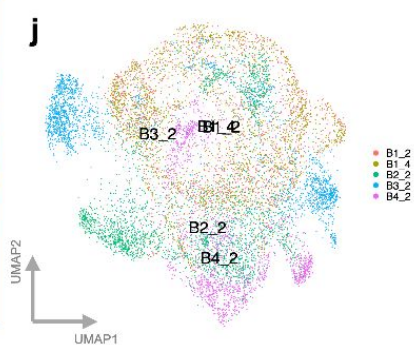
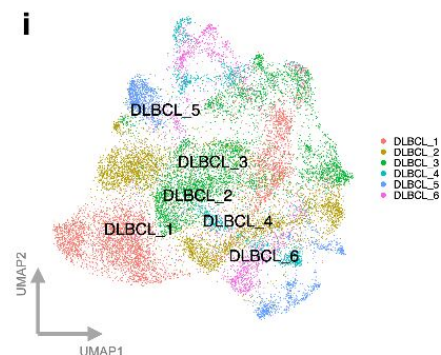
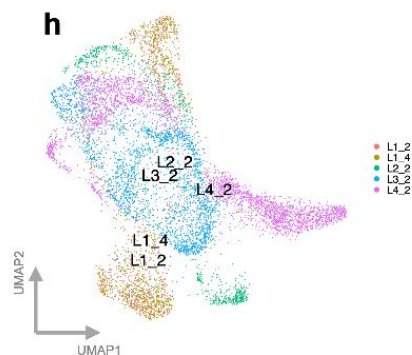
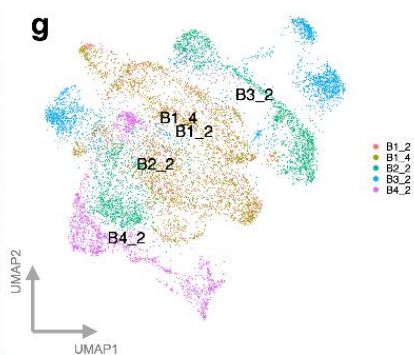
With SpotClean



SCTransform

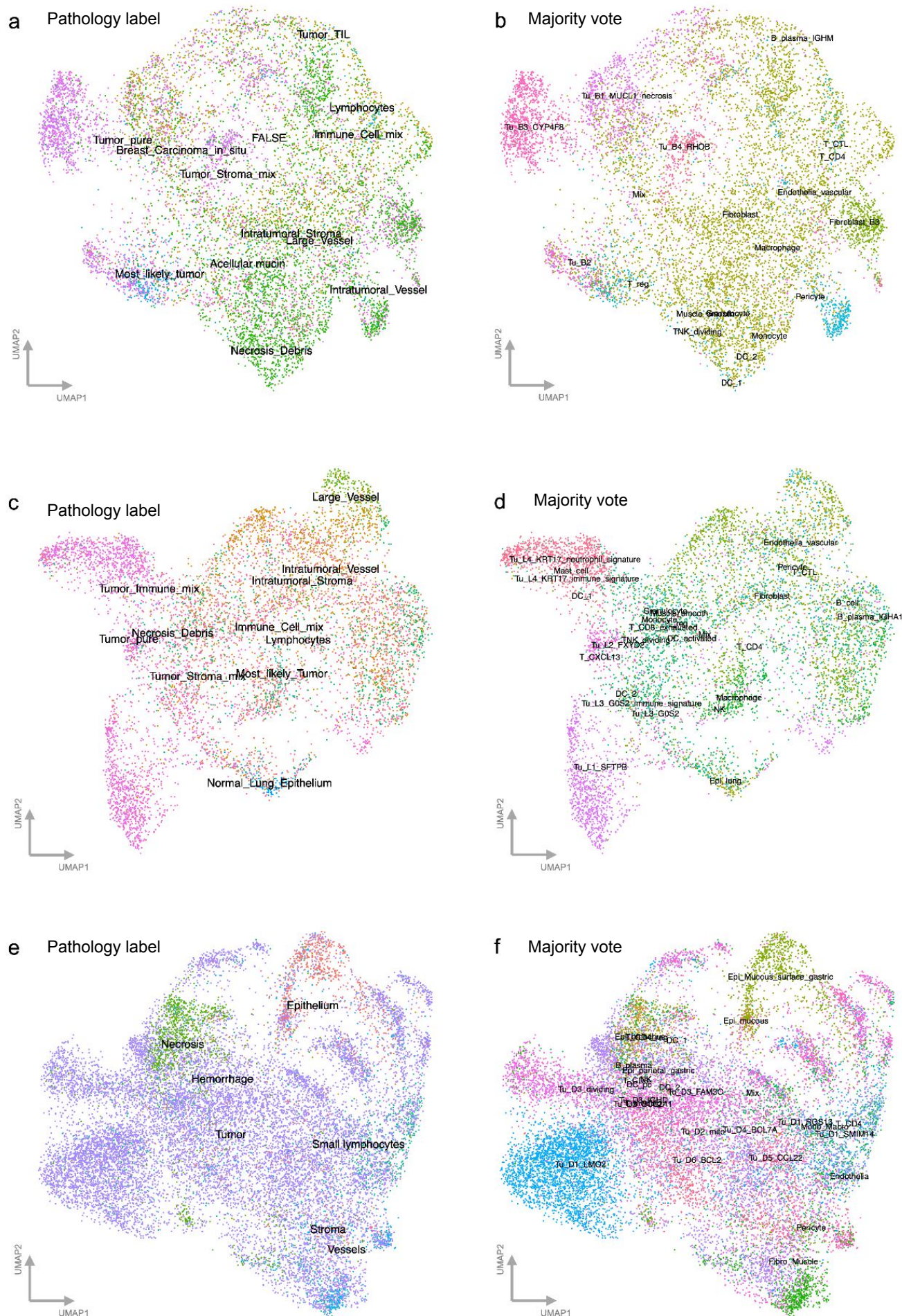
No SpotClean

With SpotClean

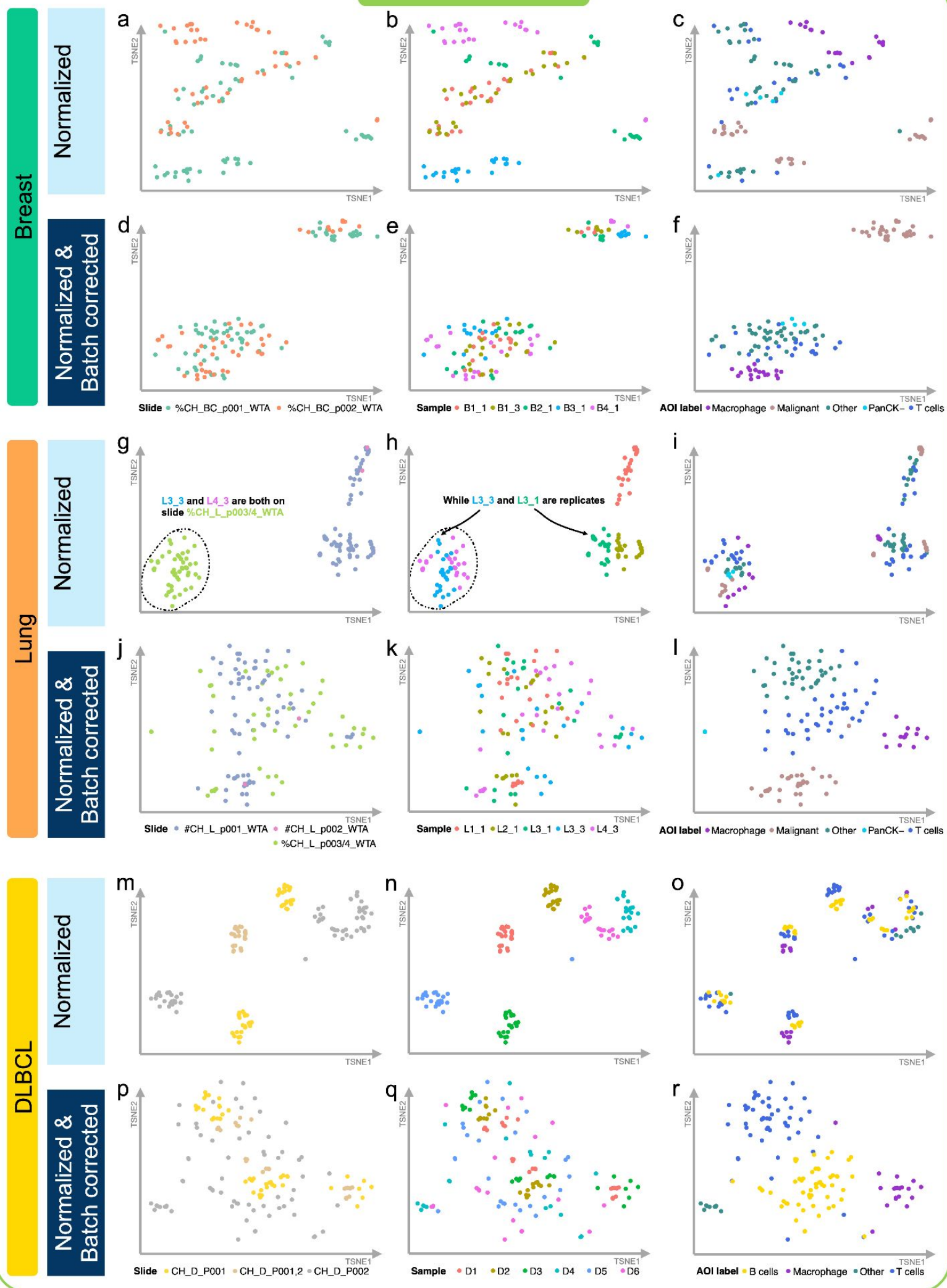


With SpotClean

DLBCL

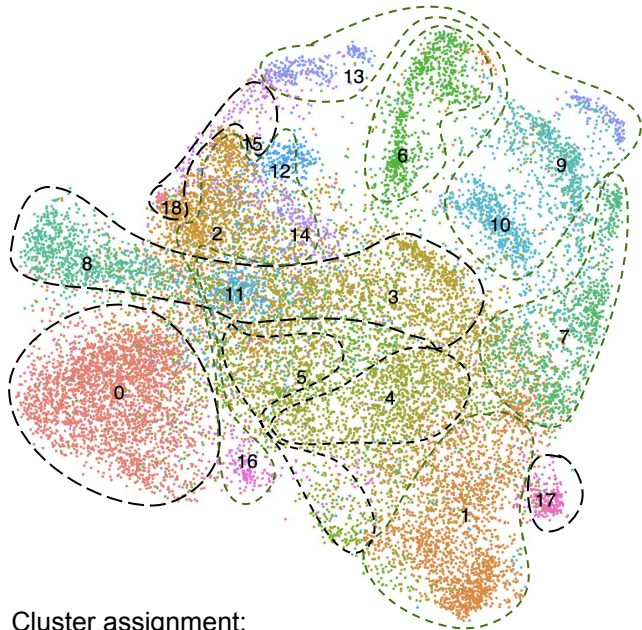


GeoMx DSP



Visium

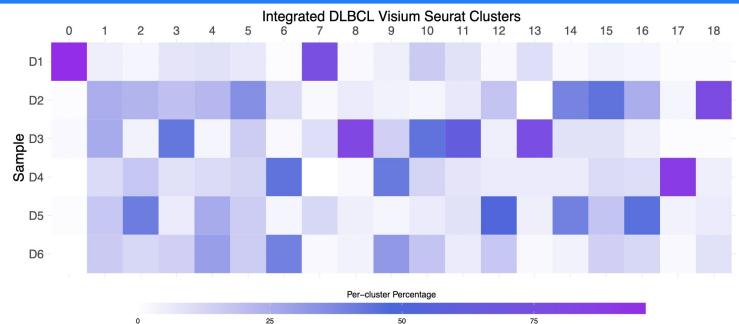
a



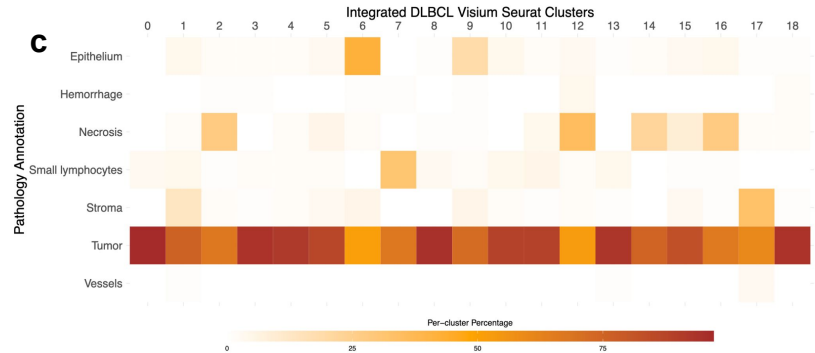
Cluster assignment:

- Tu_D1: 0
- Tu_D2: 15, 18
- Tu_D3: 3, 8, 11
- Tu_D4: 17
- Tu_D5: 4
- Tu_D6: 5
- Stroma: 1
- Epithelium: 6
- Necrosis: 2, 12, 14, 16
- Plasma cells: 9, 10, 13
- Vessel / Immune cells: 7

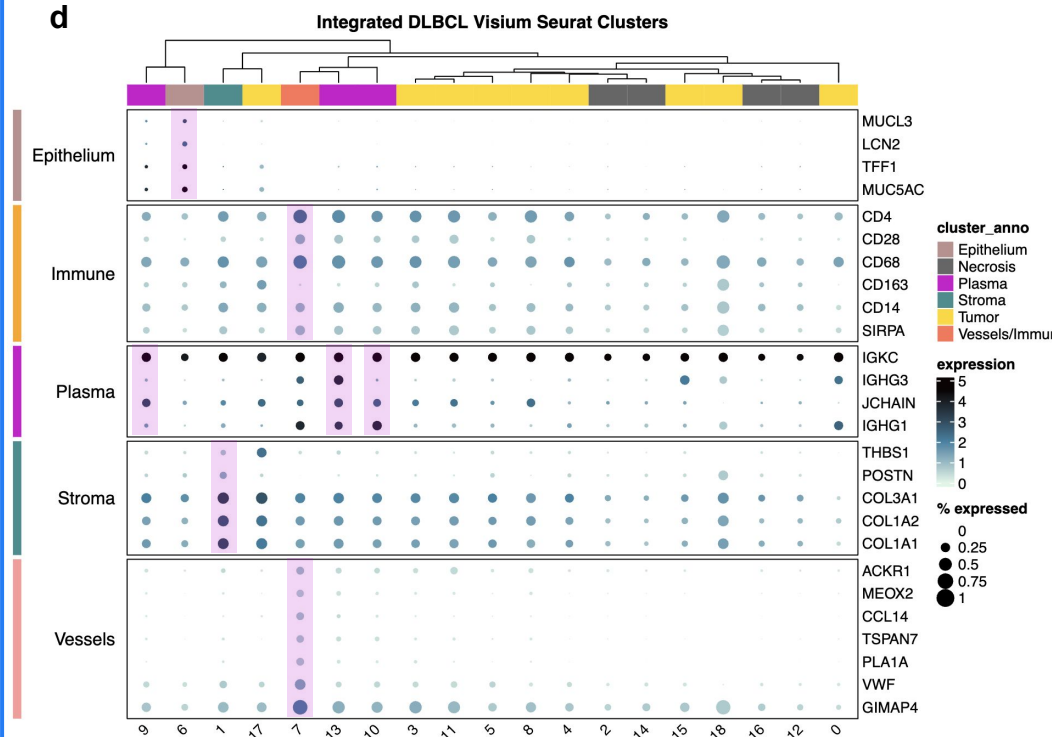
b



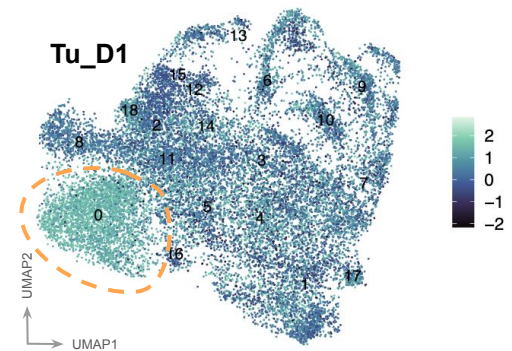
c



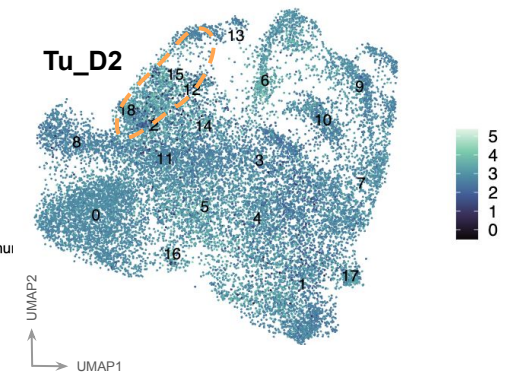
d



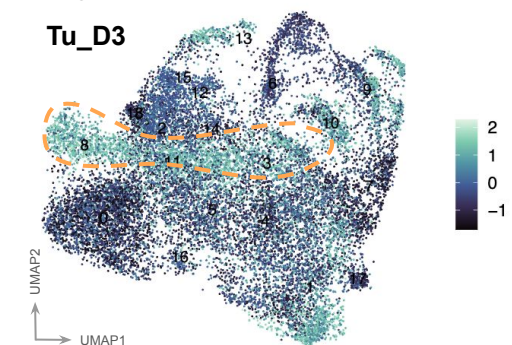
e



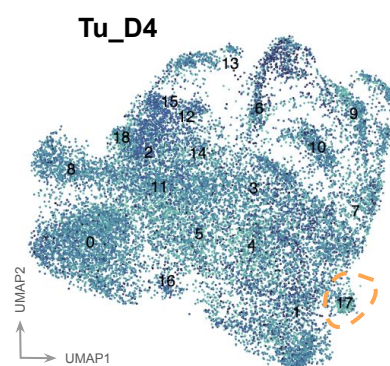
Tu_D2



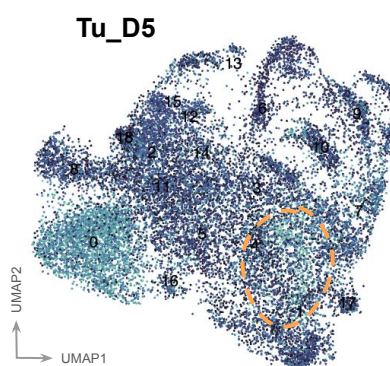
Tu_D3



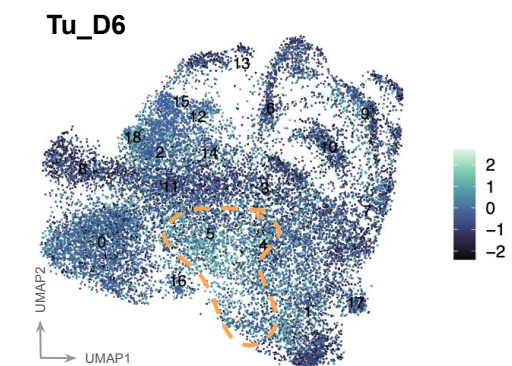
Tu_D4

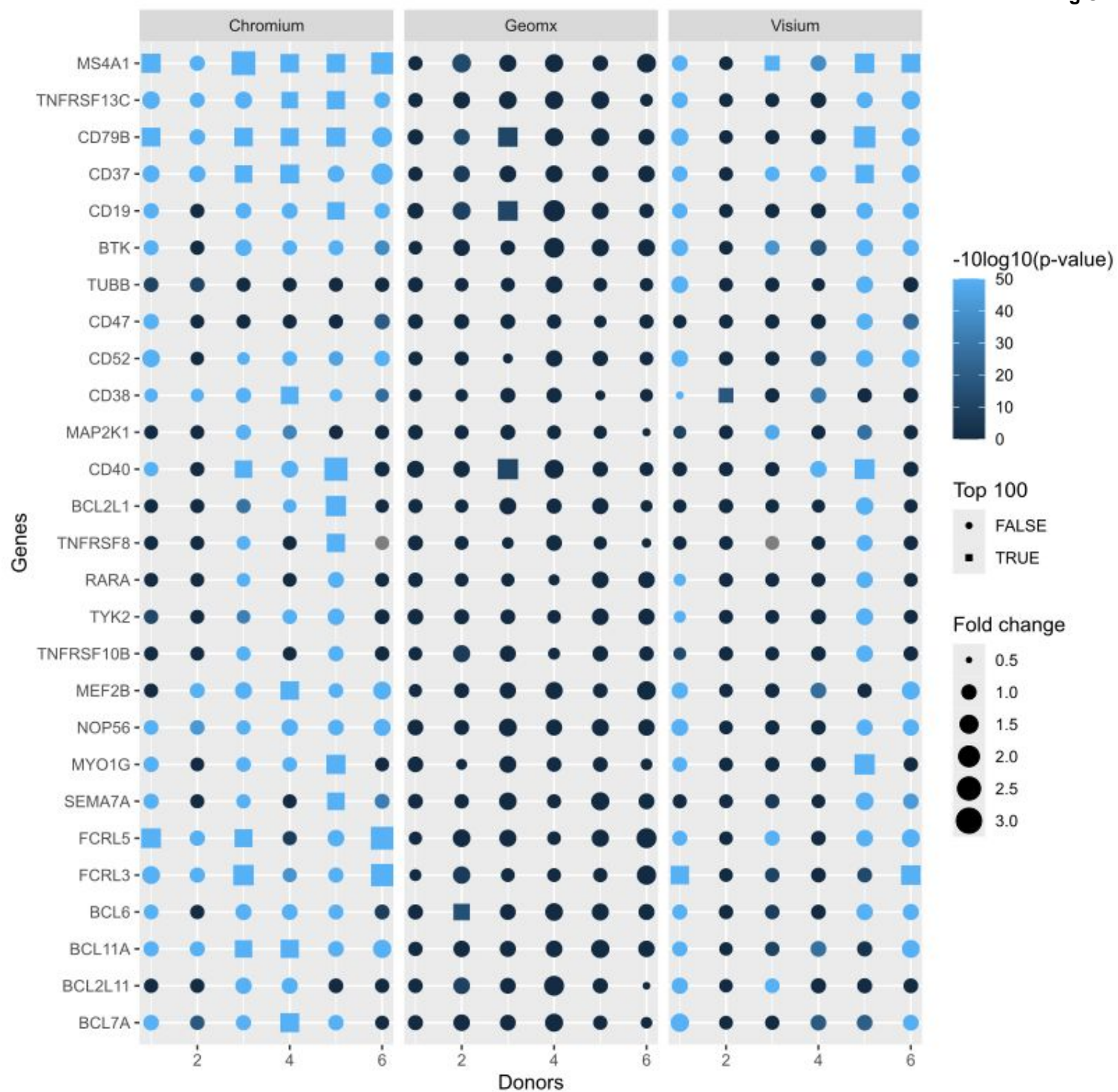


Tu_D5



Tu_D6



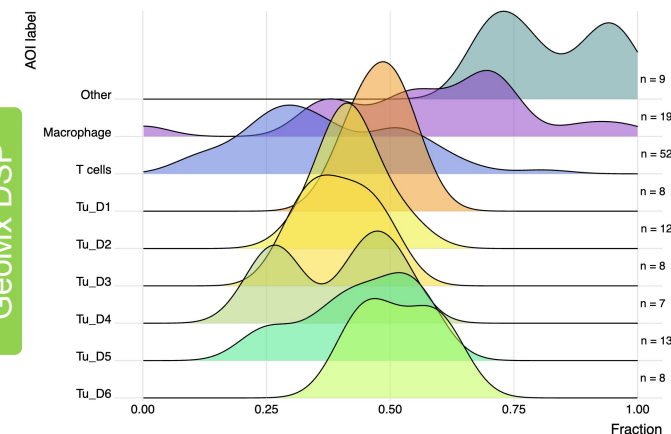
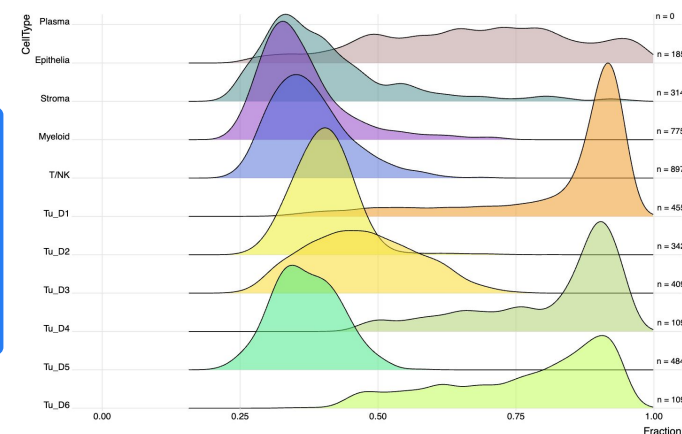


Density curves of deconvolution fraction by cell type

Density curves of deconvolution fraction by AOI label

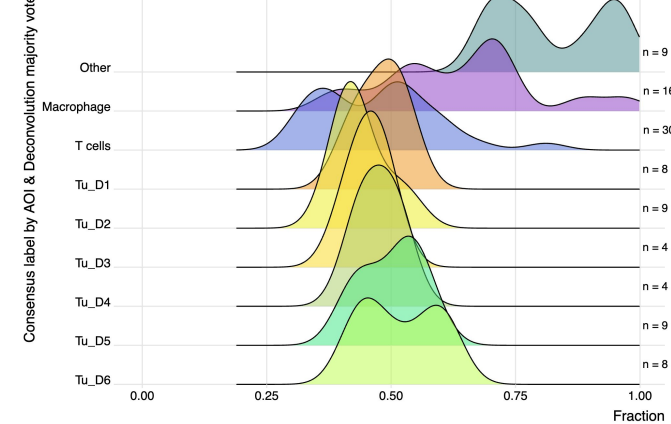
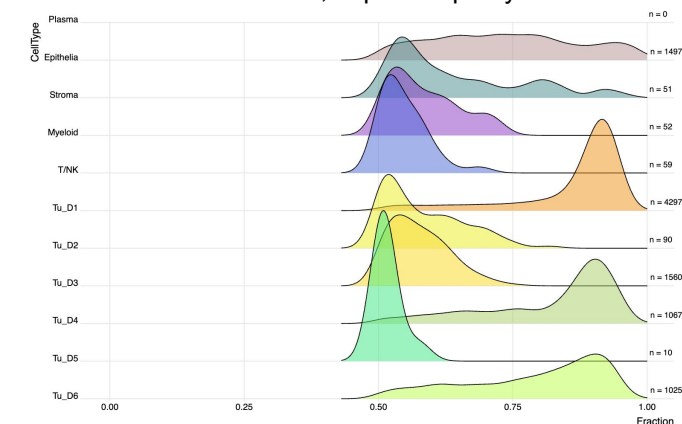
a On spots annotated by deconvolution majority vote, n = 18580

c On AOI label, n = 136



b On spots annotated by deconvolution majority vote, where only spots with max fraction > 50% are kept, n = 9708; improved purity

d On consensus label by AOI and deconvolution majority vote, n = 97; improved purity



Cell type / AOI label



e Drug targets

