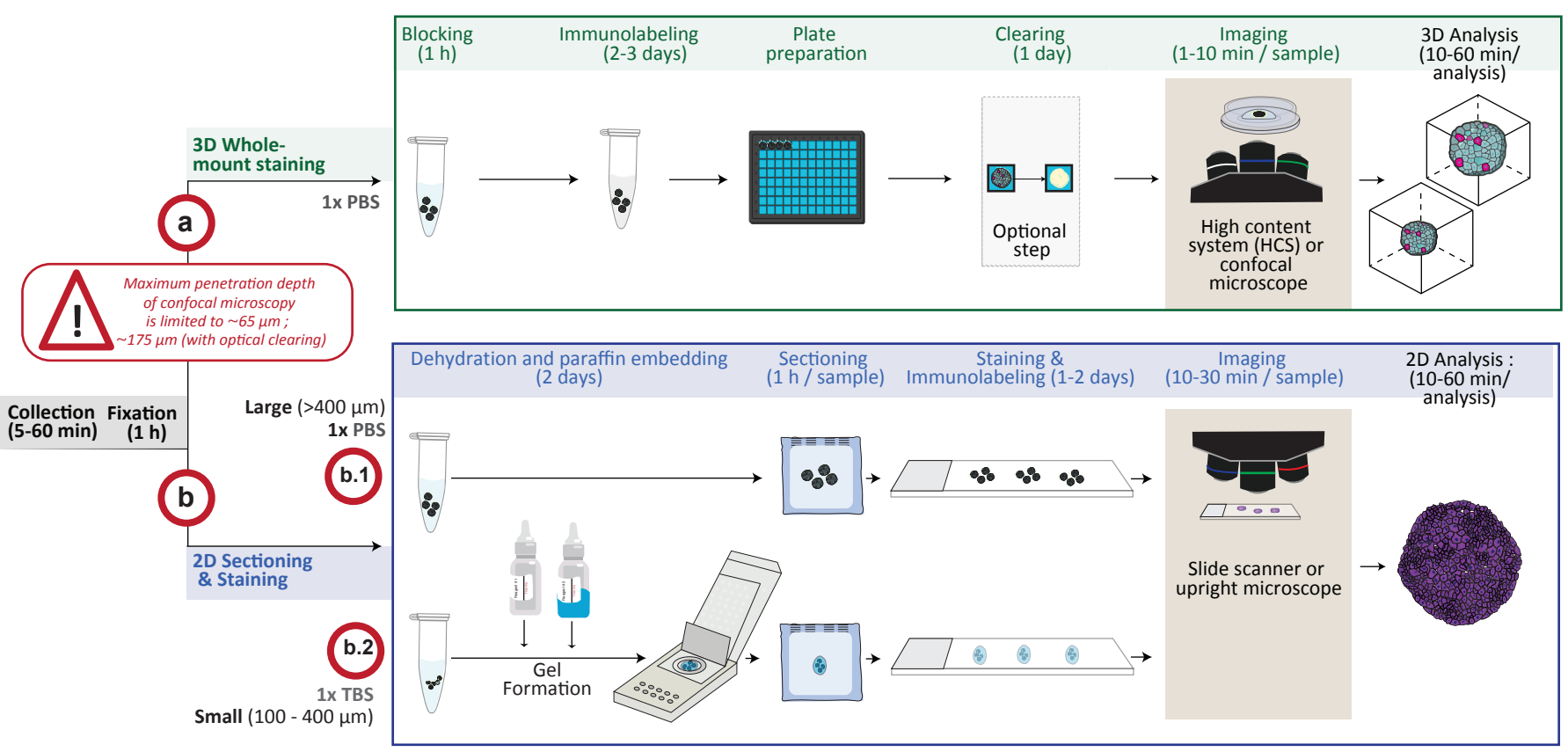
Blocking (1 h)
Immunolabeling (2-3 days)
Plate preparation
Clearing (1 day)
Imaging (1-10 min / sample)
3D Analysis (10-60 min/ analysis)
3D Whole-mount staining
1x PBS
a
Maximum penetration depth of confocal microscopy is limited to ~65 µm ; ~175 µm (with optical clearing)
Optional step
High content system (HCS) or confocal microscope
Collection (5-60 min)
Fixation (1 h)
Large (>400 µm)
1x PBS
b
b.1
2D Sectioning & Staining
b.2
1x TBS
Small (100 - 400 µm)
Dehydration and paraffin embedding (2 days)
Sectioning (1 h / sample)
Staining & Immunolabeling (1-2 days)
Imaging (10-30 min / sample)
2D Analysis : (10-60 min/ analysis)
Gel Formation
Slide scanner or upright microscope