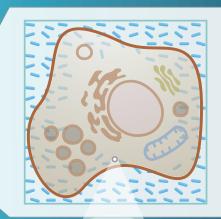
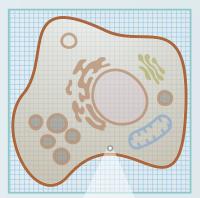
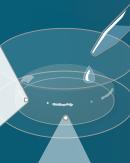


CLARITY Tissue Clearing























Detergent w/ Lipid



Hydrogel Matrix

The first step in the tissue

processing workflow is to place the fixed mouse, rat, or human tissue

The monomers and cross-linkers diffuse into the tissue's cells and bind to biomolecules such as sample in a solution of hydrogel monomers and cross-linkers.

Functionalization

to light-scattering lipids.

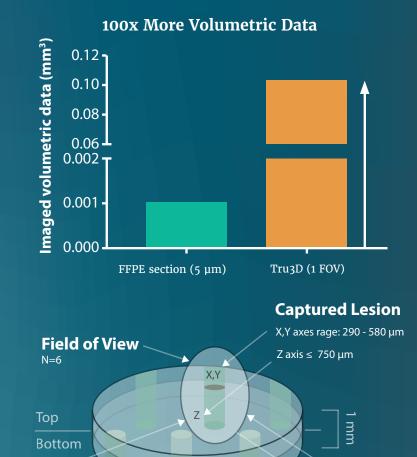
Polymerization

The hydrogel is thermally treated and the monomers polymerize into stable mesh that locks

Lipid ClearingA detergent removes lipids and other unbound molecules from the tissue. The proteins, nucleic acids and other bound biomolecules remain embedded with the hydrogel mesh.

Immunostaining If desired, antibody-based immunostaining or labeling for many nucleic acids (RNA/DNA) can be used in a multiplex panel to highlight specific structures in the clarified sample





* Standard Resolution is dependent upon image resolution. - improving resolution decreases the FOV

– better resolution equals smaller FOV ** Objective Magnification

5 mm

* X,Y,Z

3D

Magnification 25X