

Hydrogel Matrix

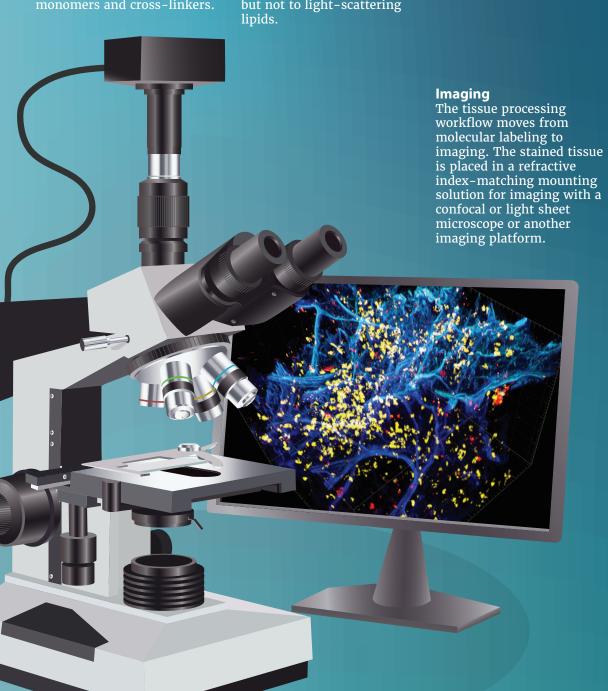
The first step in the tissue processing workflow is to place the fixed mouse, rat, or human tissue sample in a solution of hydrogel monomers and cross-linkers.

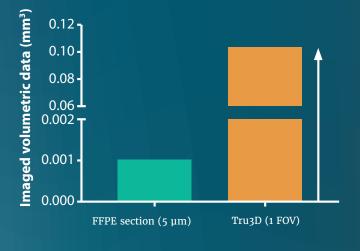
cross-linkers diffuse into the tissue's cells and bind to biomolecules such as proteins and nucleic acids but not to light-scattering

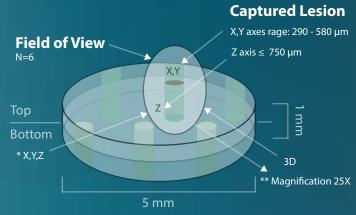
treated and the monomers polymerize into stable mesh that locks proteins / biomolecules in place.

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

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







* Standard Resolution is dependent upon image resolution. improving resolution decreases the FOV - better resolution equals smaller FOV ** Objective Magnification