

Frozen sample sectioning and mounting with anti-roll plate

1. Freeze the OCT containing the tissue onto a specimen chuck inside the Cryostat.
2. Secure specimen chuck tightly in the cryostat.
3. Cut 5-10 μm thick tissue sections in the cryostat at -25°C .
 - a. If necessary, adjust the temperature of the cutting chamber $\pm 5^{\circ}\text{C}$ according to the tissue type.
 - b. If using low-profile blades, set the cutting angle at $\sim 8^{\circ}$.
4. Adjust the position of the anti-roll plate so that the tissue sections can slide smoothly under the anti-roll plate and remain flat after sectioning.
5. Immediately transfer the section to a room temperature microscope slide (e.g. Superfrost Plus Microscope Slide) by touching the slide to the tissue.
6. Proceed directly to the next step of the experiment or store the slides at -20°C short-term.