

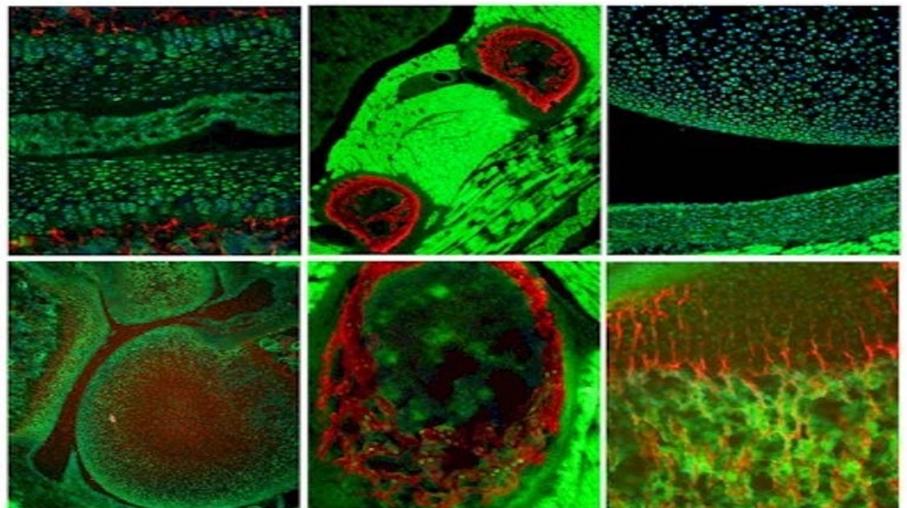
SNAP FREEZING AND TISSUE TRANSFER

Prepare Frozen Tissue While Maintaining High-quality RNA

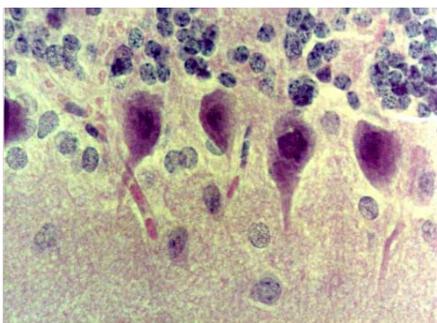
Simplify Tissue Freezing and Cutting

The **CryoJane® Tape-Transfer System** achieves *frozen sections of paraffin-quality* as thin as 2 microns, wrinkle-free, uncompressed, fully intact and bonded to the microscope slide... in less than 3 minutes. The frozen section is captured on a cold *tape window* as it is being cut and is then transferred to a cold *adhesive-coated slide*.

The adhesive on the slide is polymerized into a plastic layer, securely anchoring the *still frozen section* to the slide. The section on the slide is now ready for fixation and/or staining.

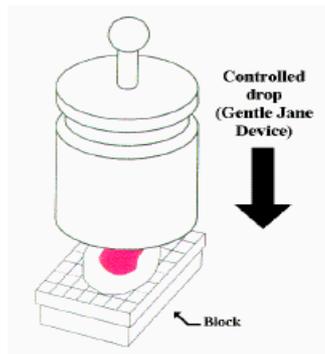


Green Fluorescent Protein (GFP) Of Whole Transgenic Rat Sections using MTTs
Courtesy of Lori Hayes et al, Wyeth-Ayerst Research



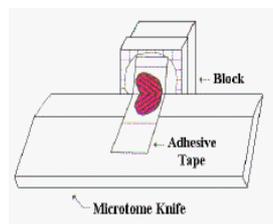
Snap-freezing and embedding

A blockholder is placed on the Gentle Jane® snap-freezing device. Cryo-Gel® or other embedding media is dispensed onto the blockholder and a tissue specimen is positioned on top. The chilled heat extractor is placed in its holder and released. When the heat extractor contacts the specimen, the tissue and embedding medium is snap-frozen into a flat block. The plane of the flat block face minimizes trimming. When specimen shape or orientation are essential, the tissue is snap-frozen using the Cryo-Gel® / Rubber Mold method.



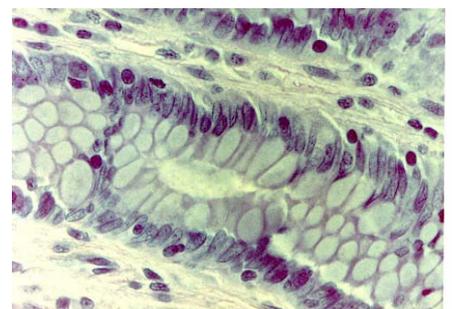
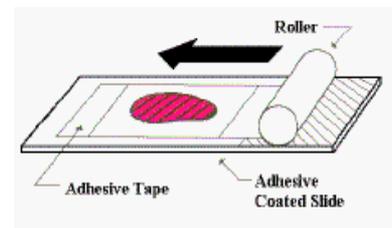
Cutting

After the block is trimmed, a cold adhesive tape is adhered to the block face. The tape supports and captures the section as it is being cut, eliminating the need for a brush or anti-roll device.



Curing the Adhesive Coating

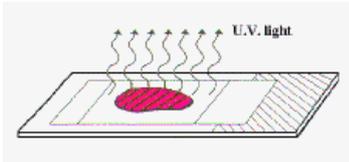
A cold adhesive-coated slide is placed on a temperature-controlled pad. The adhesive tape is placed section-side-down on the adhesive-coated slide, and is laminated to the adhesive layer using a cold roller.



TISSUE TRANSFER

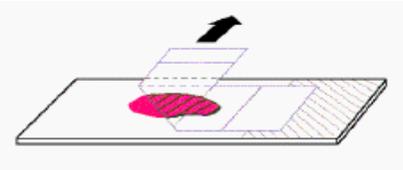
Transfer to Slide

A flash of ultraviolet light passes through the slide to polymerize the adhesive layer on the slide into a hard, solvent-resistant plastic, tightly anchoring the section to the slide.



Removal of Tape

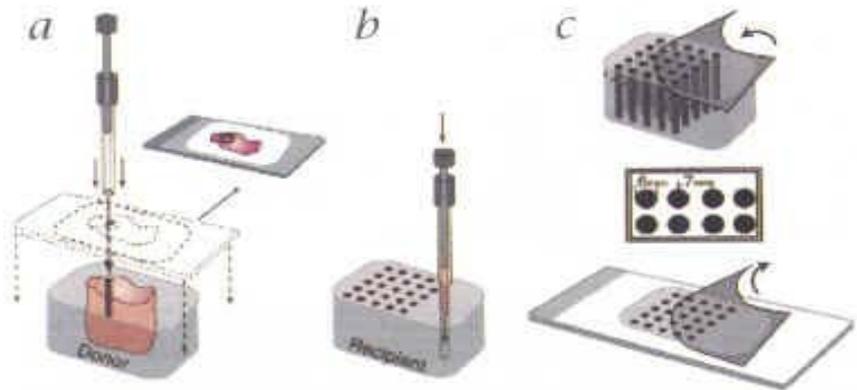
The tape is peeled away leaving the still frozen section tightly bonded to the plastic layer.



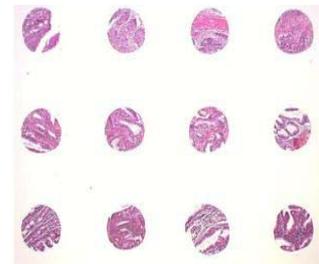
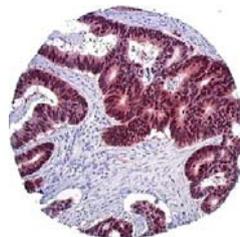
The slide can then be:

- Fixed in the Instrumedics Aqueous Fixative.
- Freeze-dried or freeze substituted in the cryostat before "anhydrous" fixation.
- Melted or air-dried and fixed with the fixative of your choice.

The Paraffin Tape-Transfer System utilizes a tape-transfer method similar to CryoJane® for the rotary microtome



An adhesive-coated tape sectioning system assists in cutting the tissue micro array block. Each tissue element in the array is 0.6 mm in diameter and spacing between two adjacent array elements is 0.1 mm



"It really makes preparing a frozen section easy and, in fact, you don't need skill anymore. It is very nice to be able to have the confidence of knowing you can prepare a complete, undamaged section for just about anything."

*Dr. James Magidson
Laboratory Director
Brookhaven Memorial Hospital,
East Patchogue, NY*

Ordering Information

Catalog #	Description
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Tissue Freezing

02-SAG	GentleJane Kit
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Fresh Frozen Sections

02-CJ	CryoJane System
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Paraffin embedded Tissue

02-MTTS	Macro Tape Transfer System MTTS
02-PSA	Tape Transfer System PSA



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