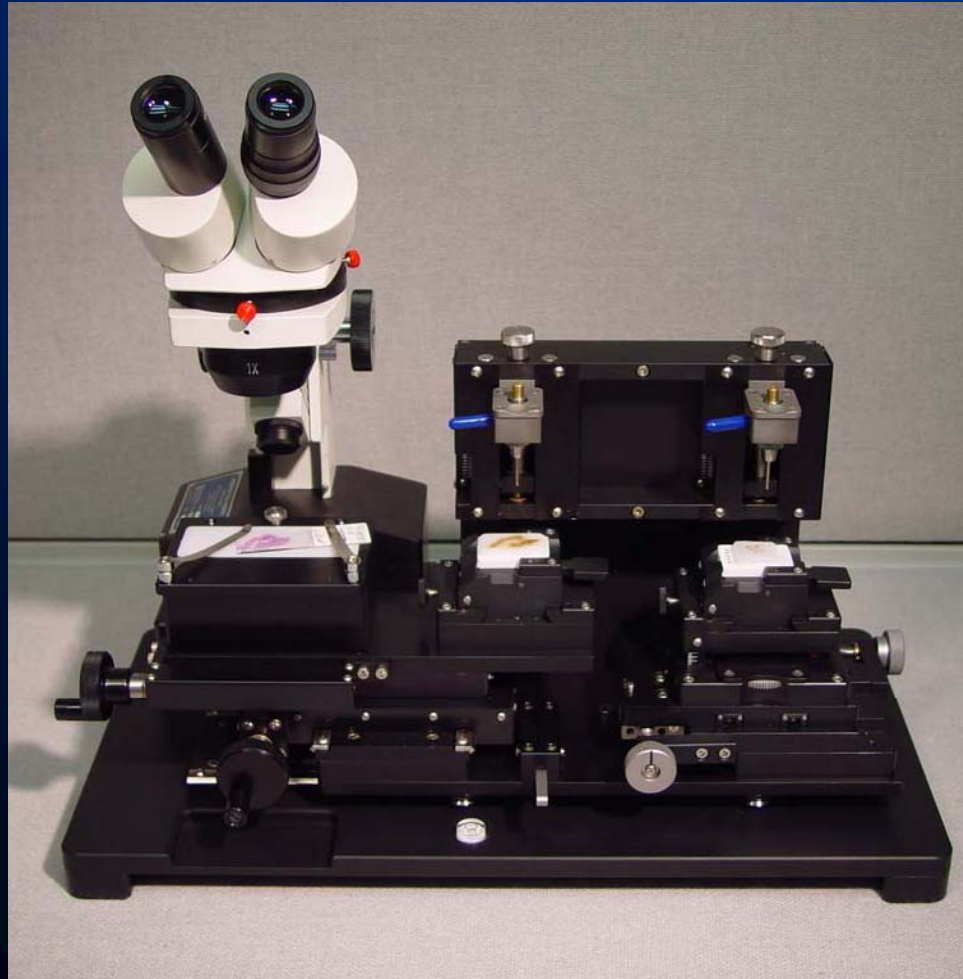




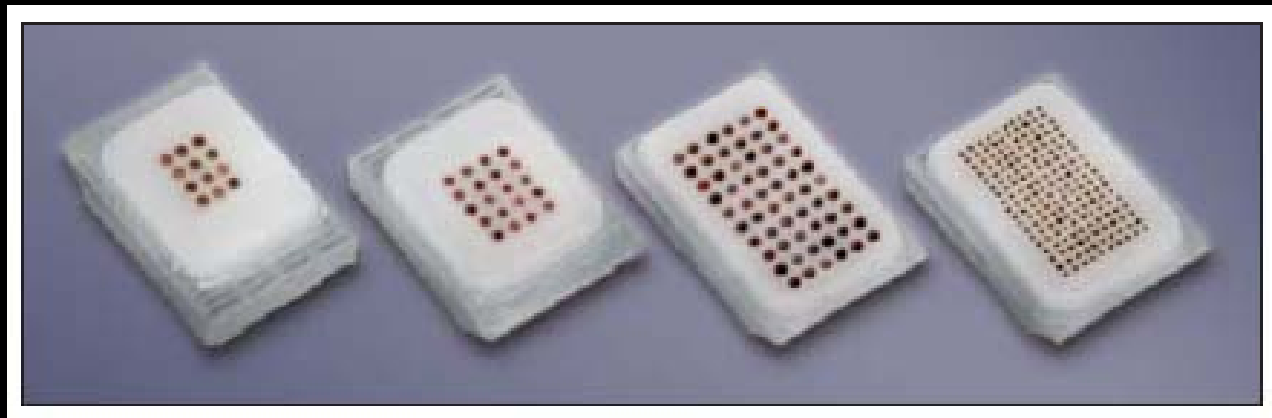
Veridiam Tissue Arrayer



**A MUST-HAVE
INSTRUMENT FOR
YOUR LAB!**

Veridiam Tissue Arrayer with patent-pending technologies allows you to create customized tissue microarrays using multiple tissue specimens on a single glass slide.

Veridiam Arrayer takes the guesswork out of building tissue arrays



Locate precisely the desired area of tissue and extract it quickly and accurately

Deliver the top of every tissue core precisely to the top of your array block

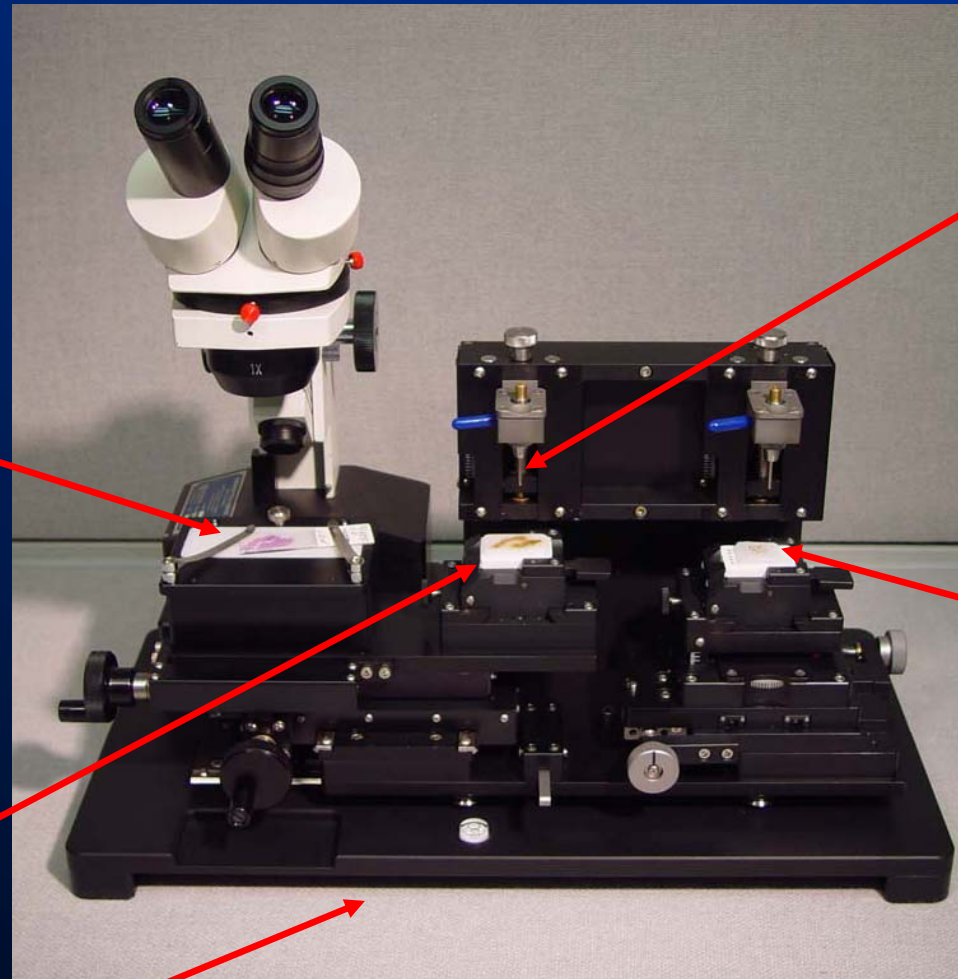
Veridiam Arrayer advantages:

- No tissue compression
- No tissues above the paraffin
- Exact X-Y-Z adjustments
- Donor and receptor block indexing built into the instrument design

This presentation will show you how to make tissue array blocks using Veridiam Arrayer

Reference slide made from donor block

Donor tissue block

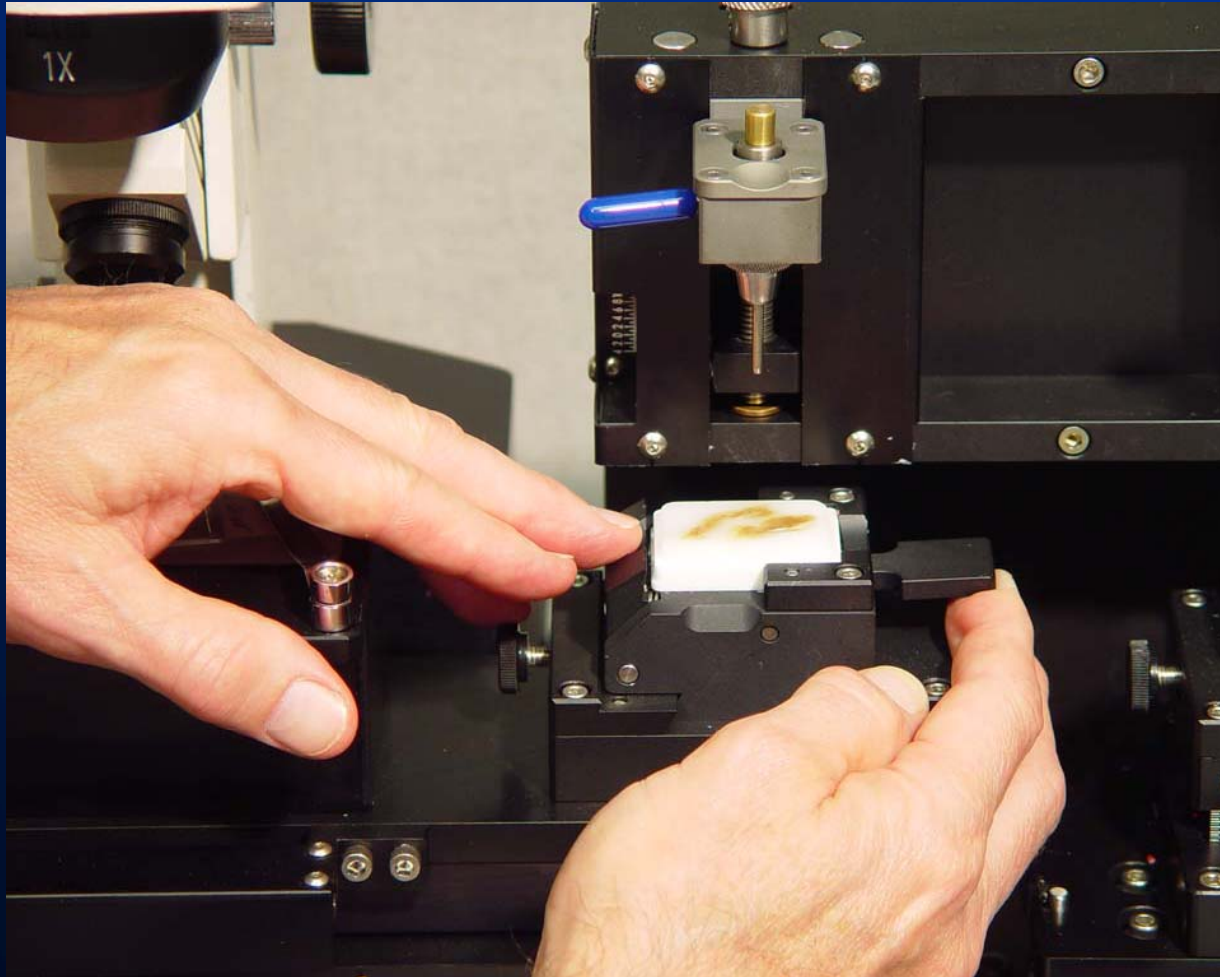


Core punches available in multiple diameters

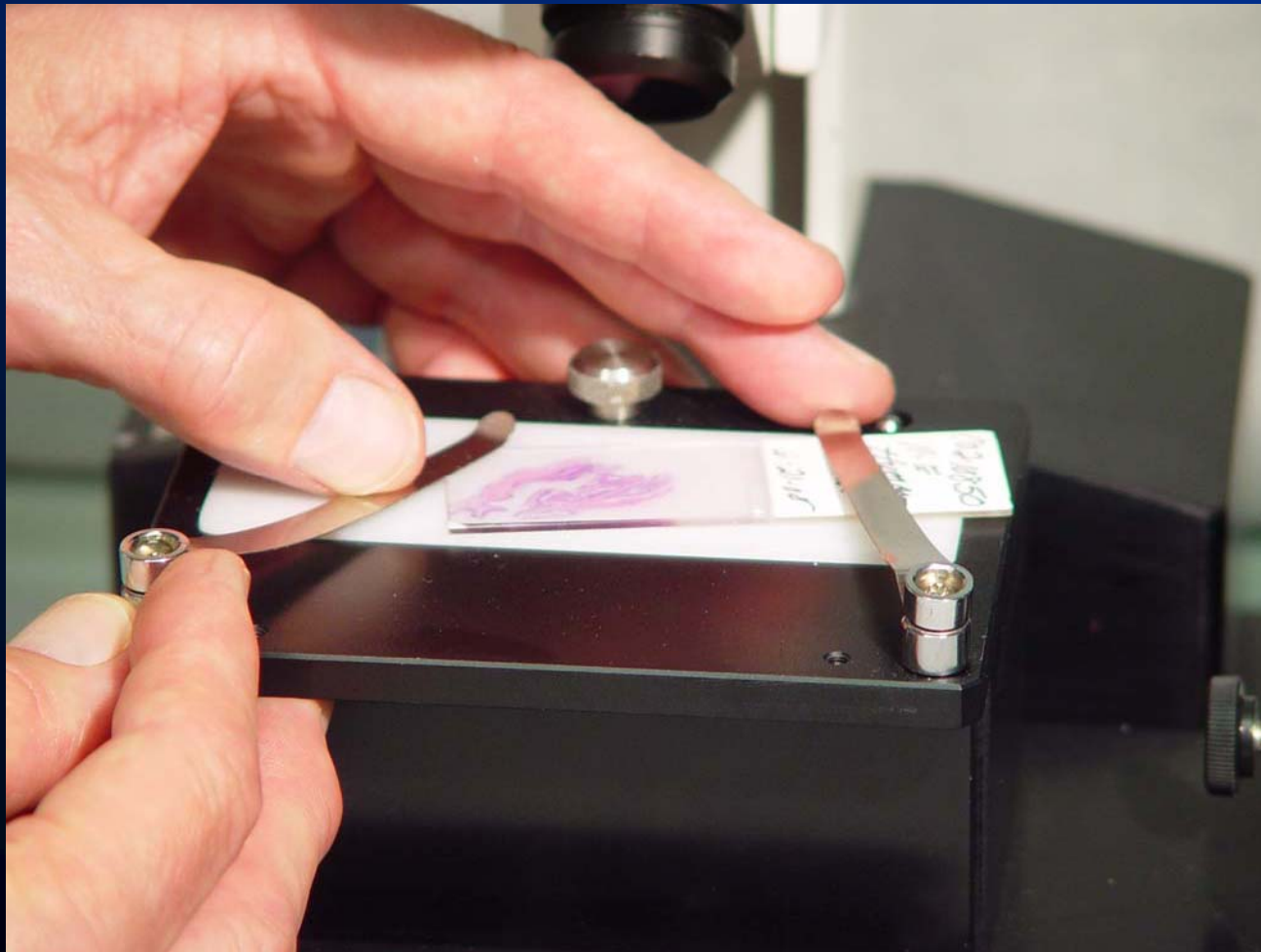
Recipient block (which will become the tissue array block)

Small Benchtop Footprint (19.5 x 10.5 inches; 50 x 27 cm)

Place Donor Block in Donor Block holder

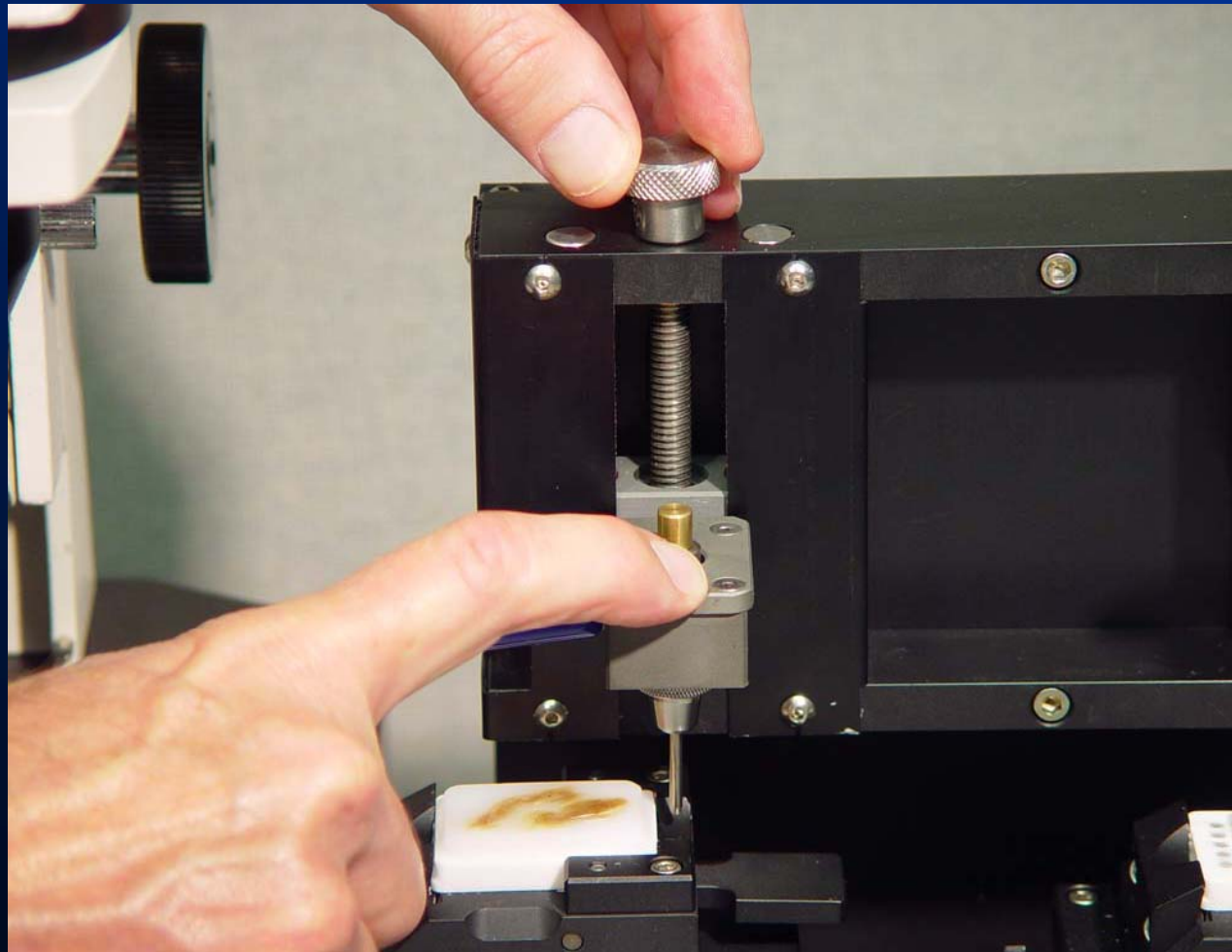


Place Reference Slide, cut from the Donor Block, on Microscope Stage



NOTE: the use of the arrayer Microscope is optional. We recommend using the Microscope for the preparation of high-precision tissue microarrays where a pathologist uses the reference slide and the Ocular Reticle to target specific areas in the Donor Block

Set height of Donor Needle (just above the plastic cassette) to punch through Donor Block (first Z-height adjustment of a total of three)

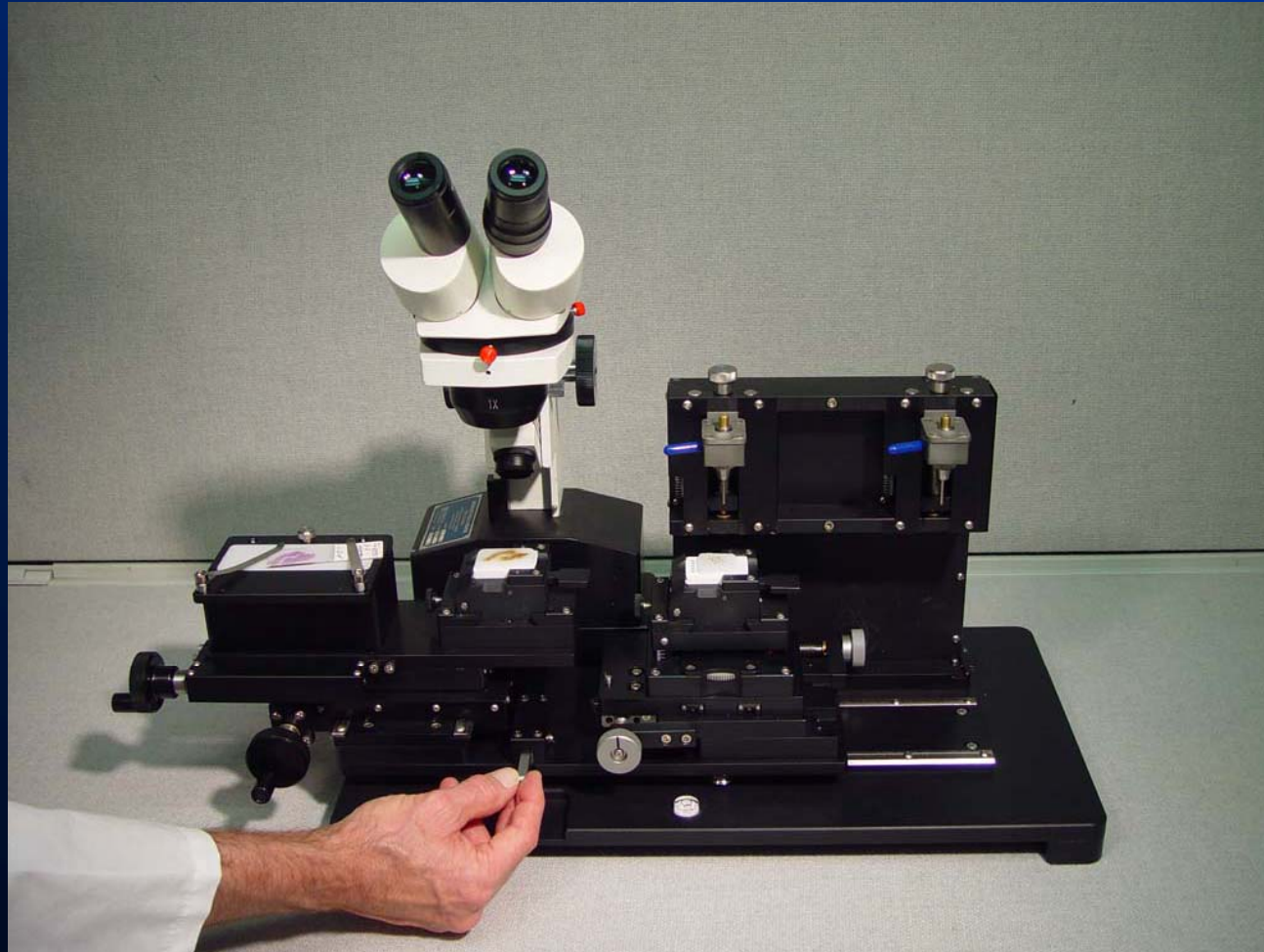


Align Donor Block and Reference Slide

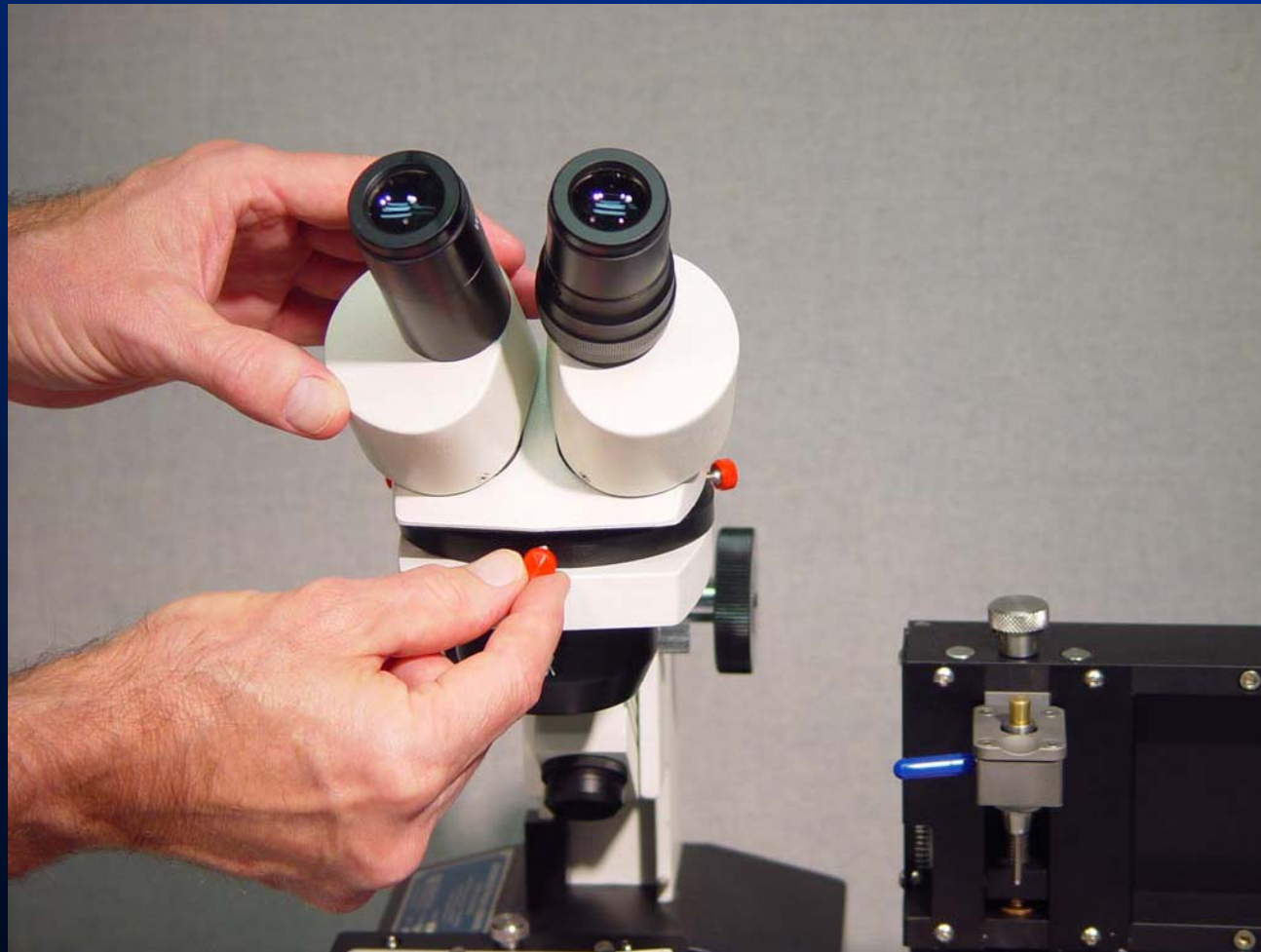


**NOTE: this and other
Microscope related
steps are optional.**
Stereo Microscope and
Donor Block positions
are indexed in the
instrument to ensure
accurate sample
extraction and delivery

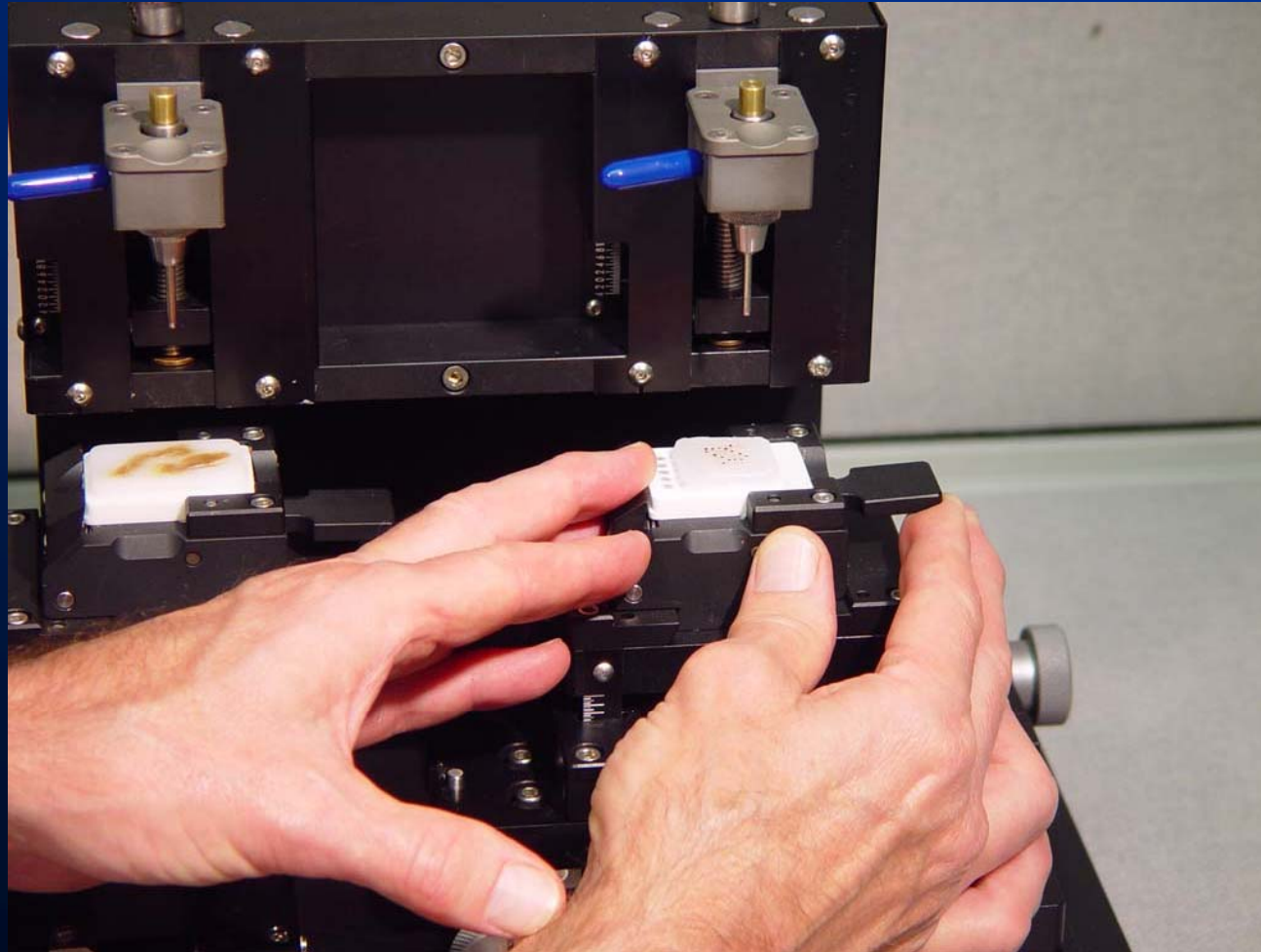
Slide Stage to check alignment of Donor Block and Reference Slide



If needed, center the Ocular Reticle using Adjusting Screws

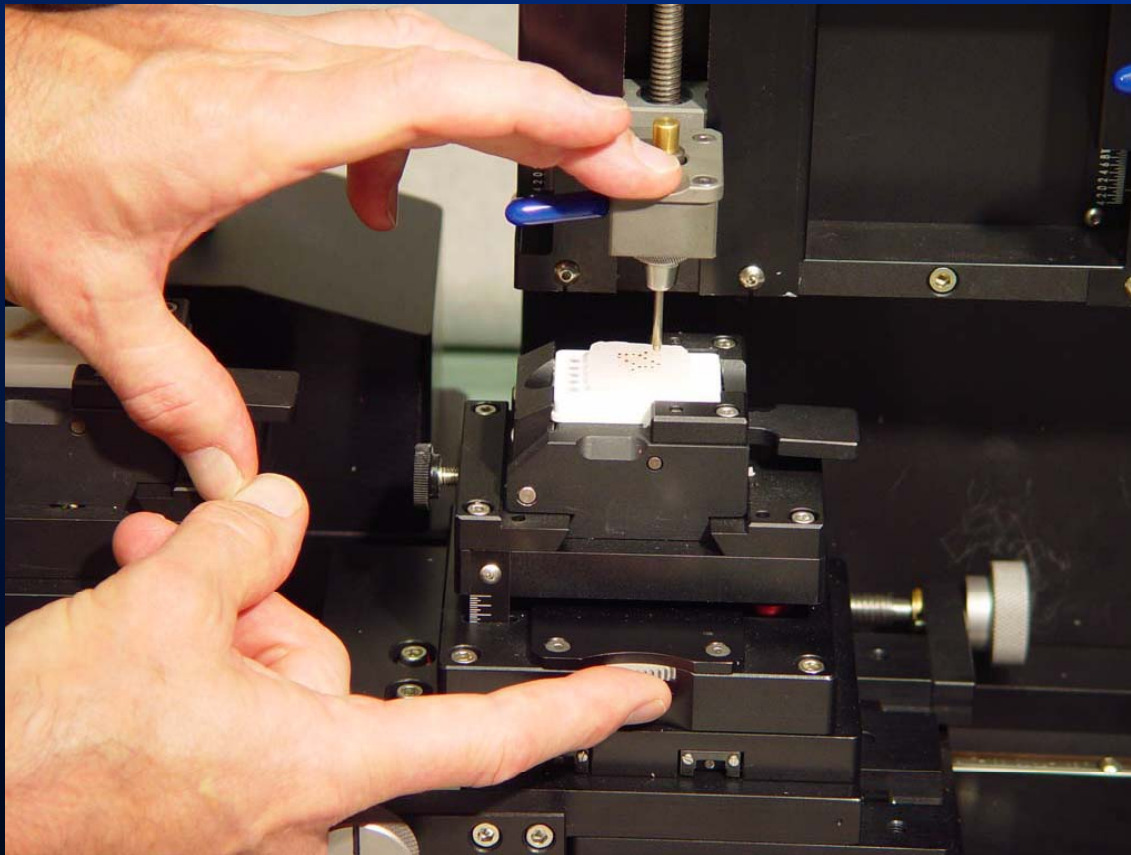


Place Recipient Block in Recipient Block Holder





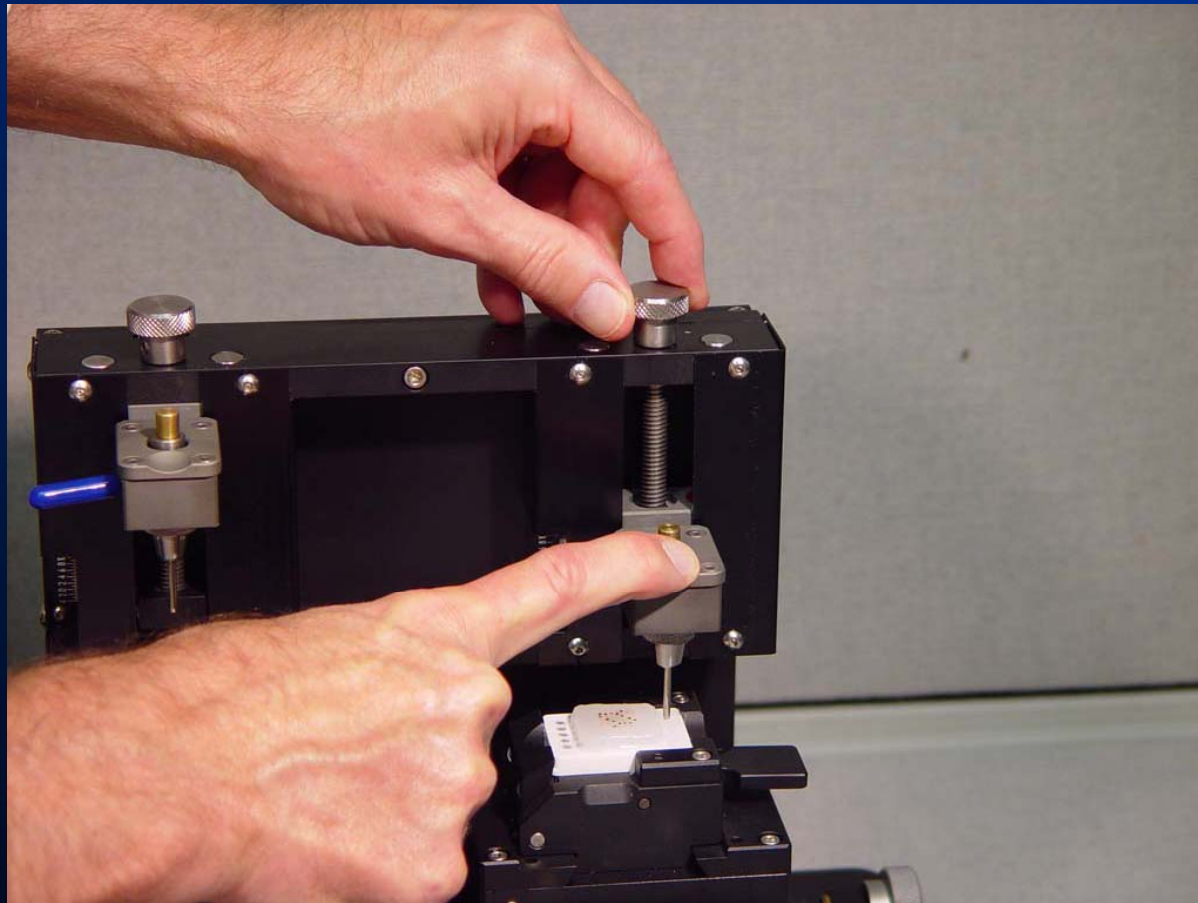
Slide Stage and set height of Recipient Block relative to Donor Needle; bring Donor Needle to the top of Recipient Block (second Z-height adjustment of three)



Adjustable locking Z-height ensures that the top of every tissue core is delivered precisely to the top of the array block

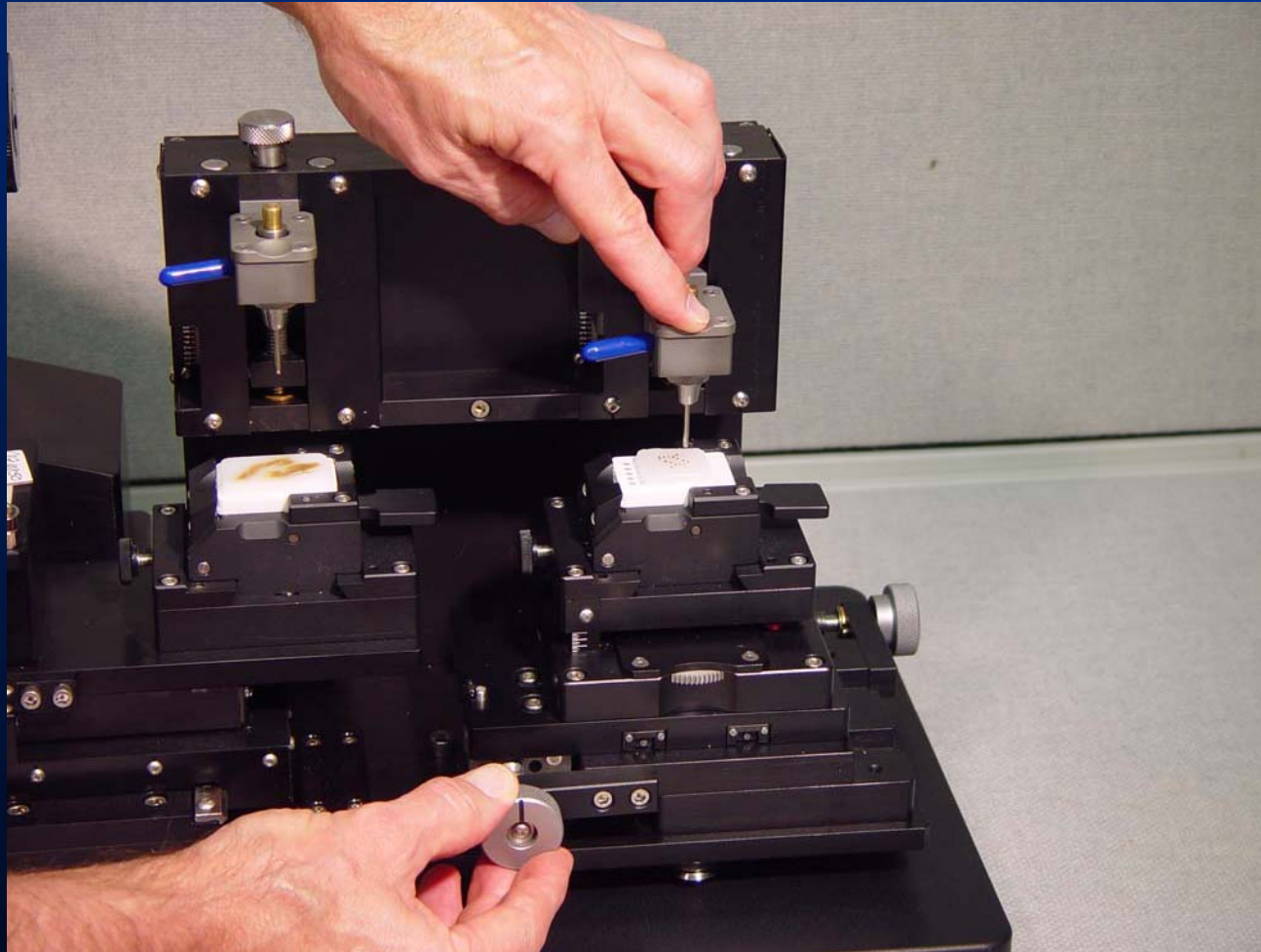


Slide Stage and set height of Recipient Needle to punch through Recipient Block; lower Recipient Needle so it stops just above the plastic cassette (third Z-height adjustment of three)



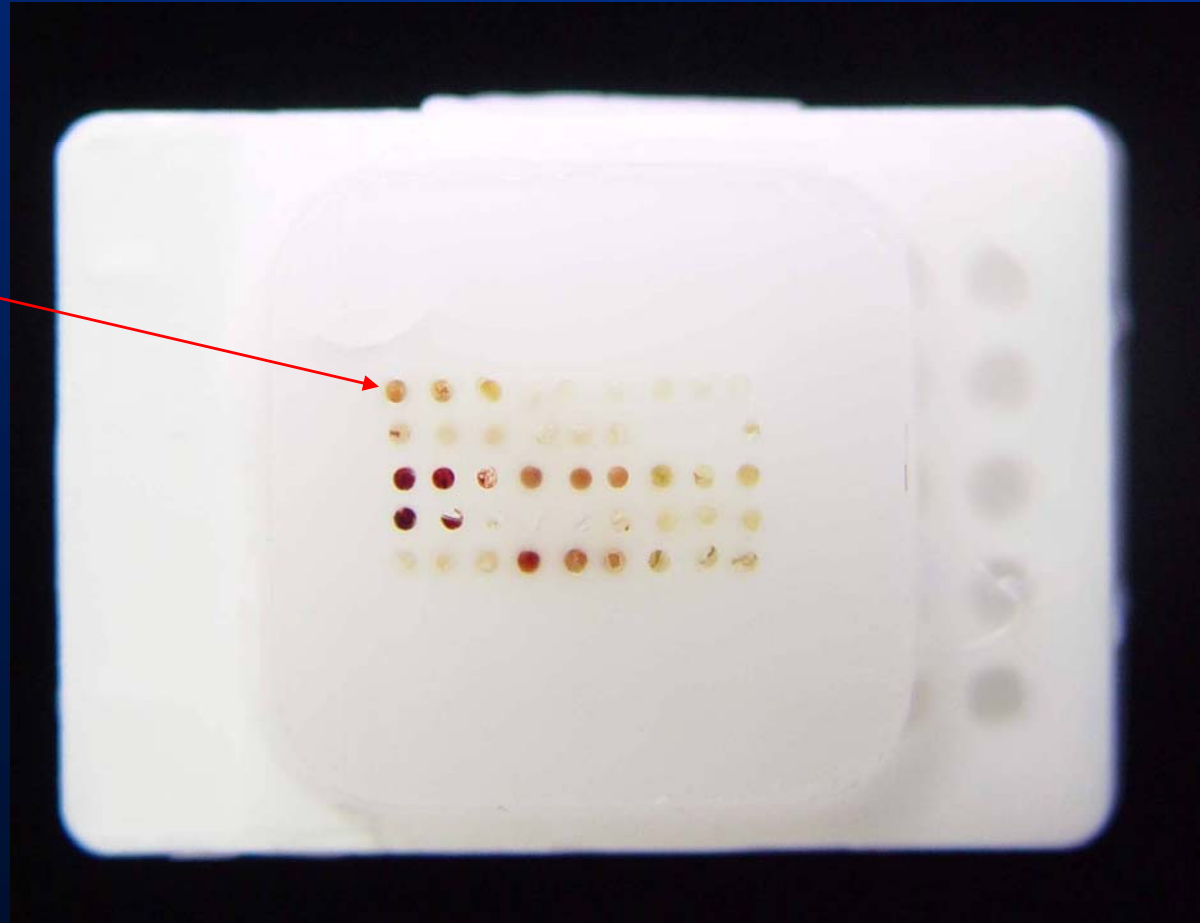


**Align Recipient Needle to the center of Recipient Block
to initiate tissue array grid arrangement**

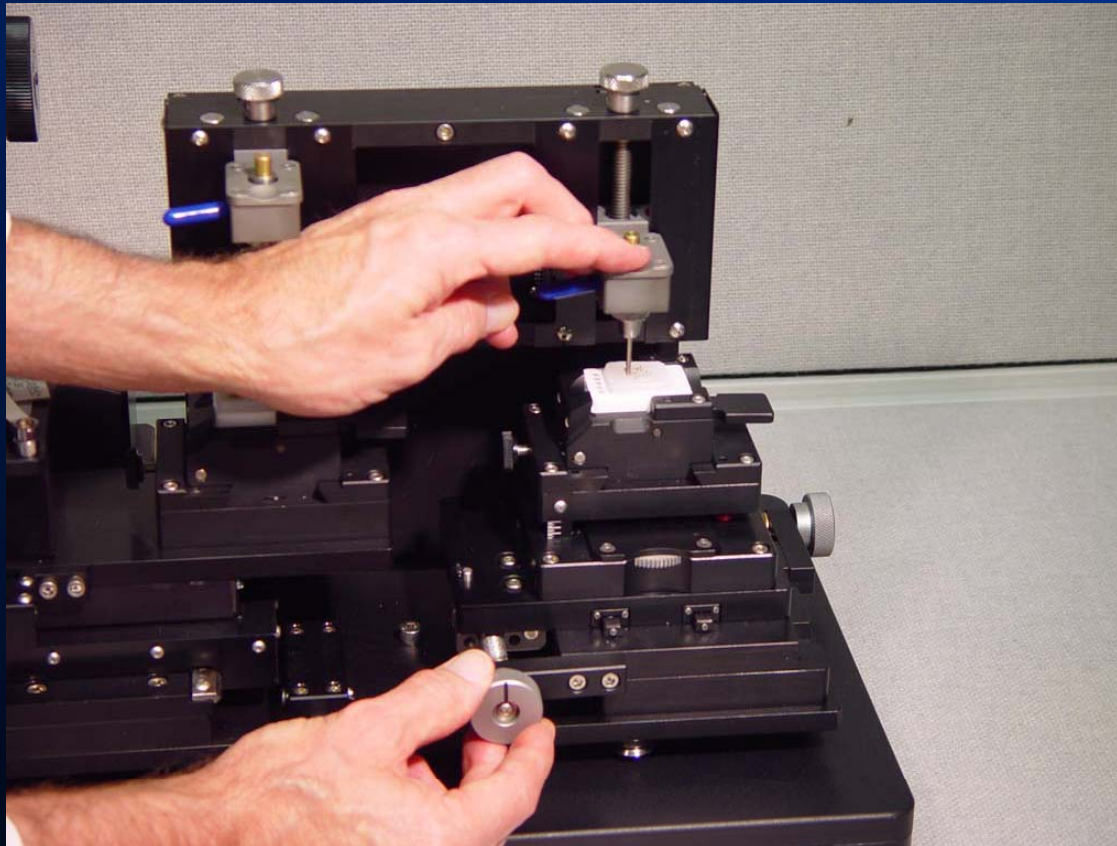


Determine tissue array grid pattern
(e.g., 5 wide x 9 high as shown below)

Position A1



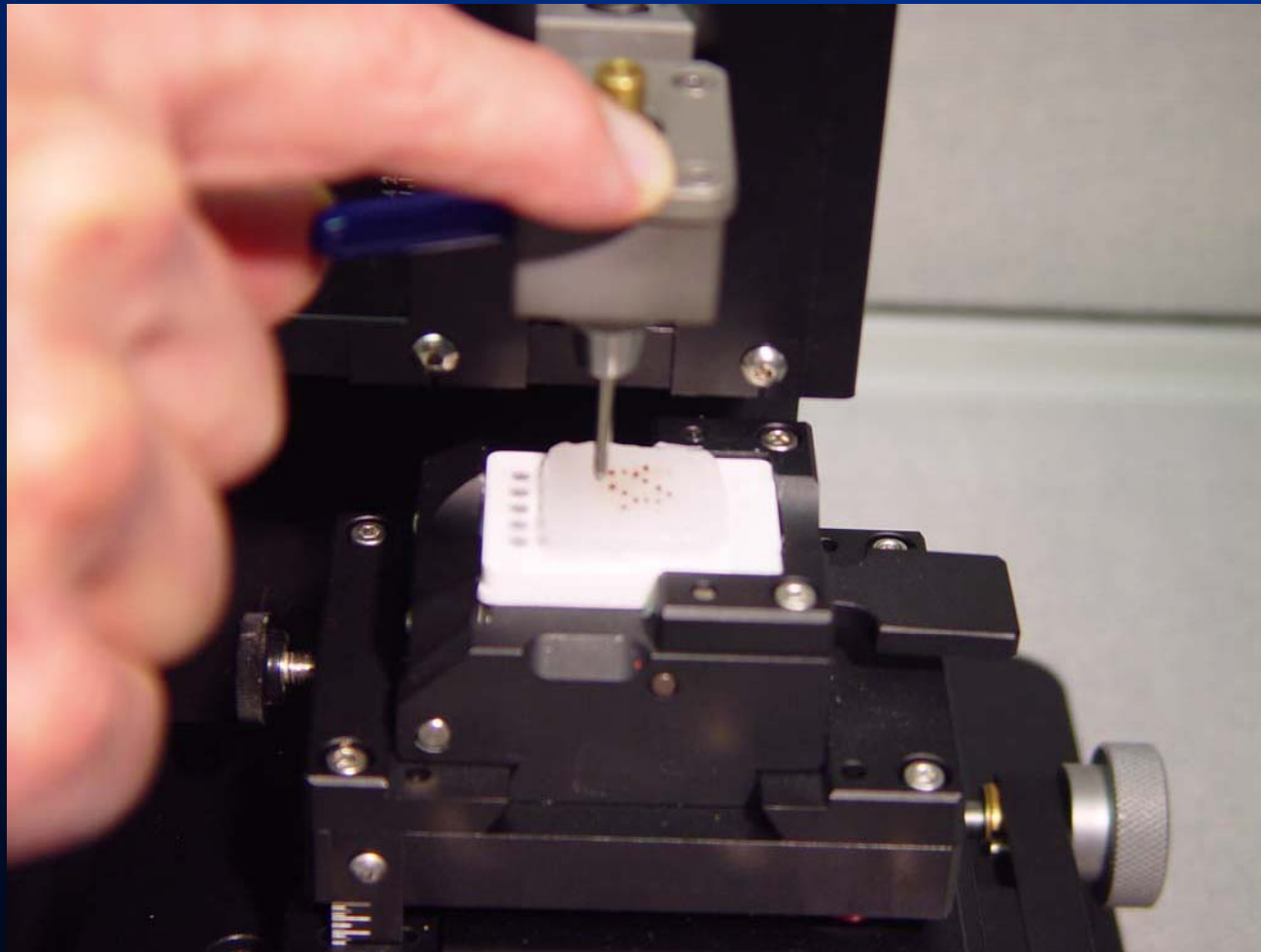
Move Recipient Block to position Recipient Needle above first position (A1) in the grid



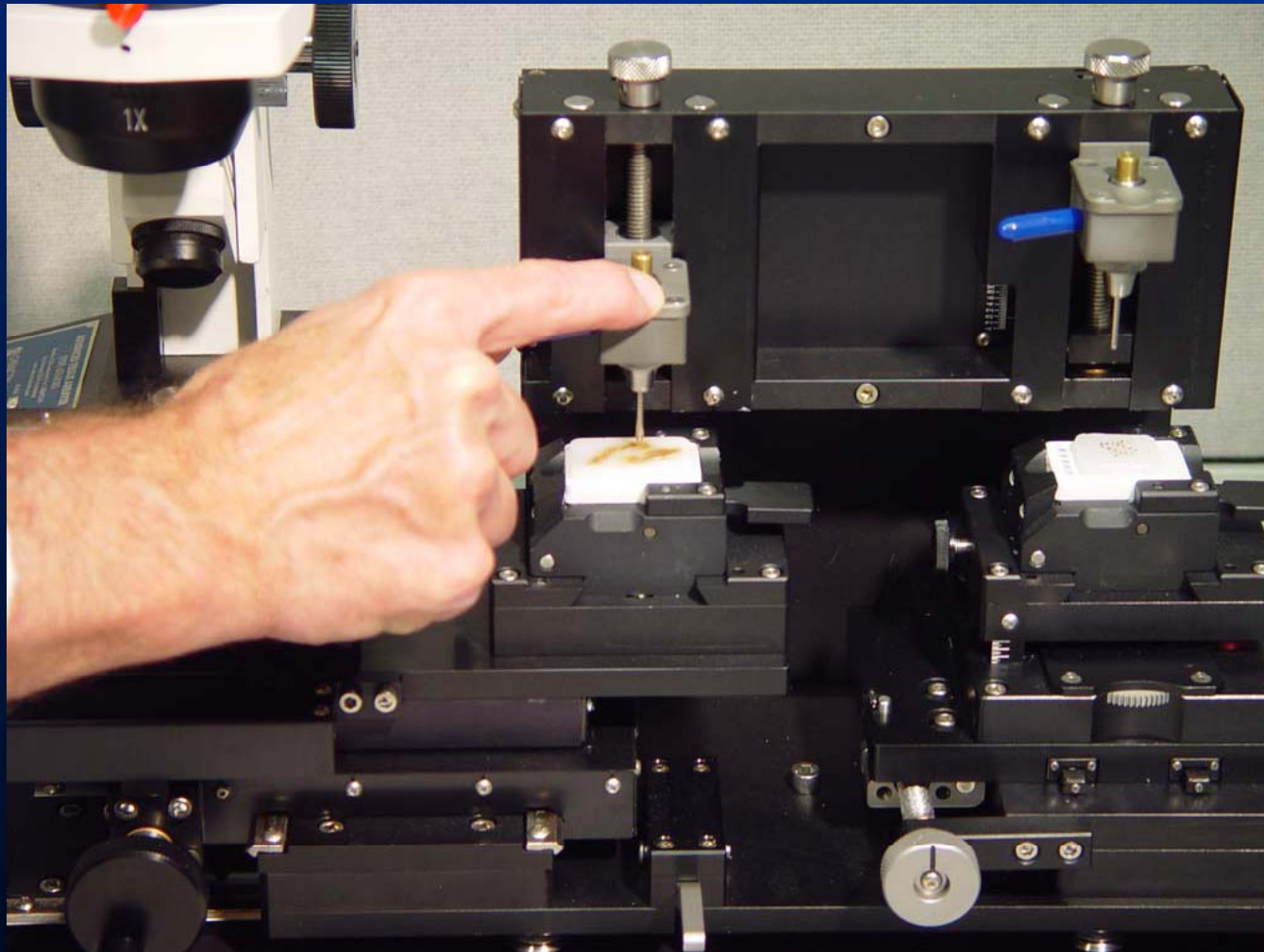
Array block positioning is in the instrument notched for consistent pitch between samples



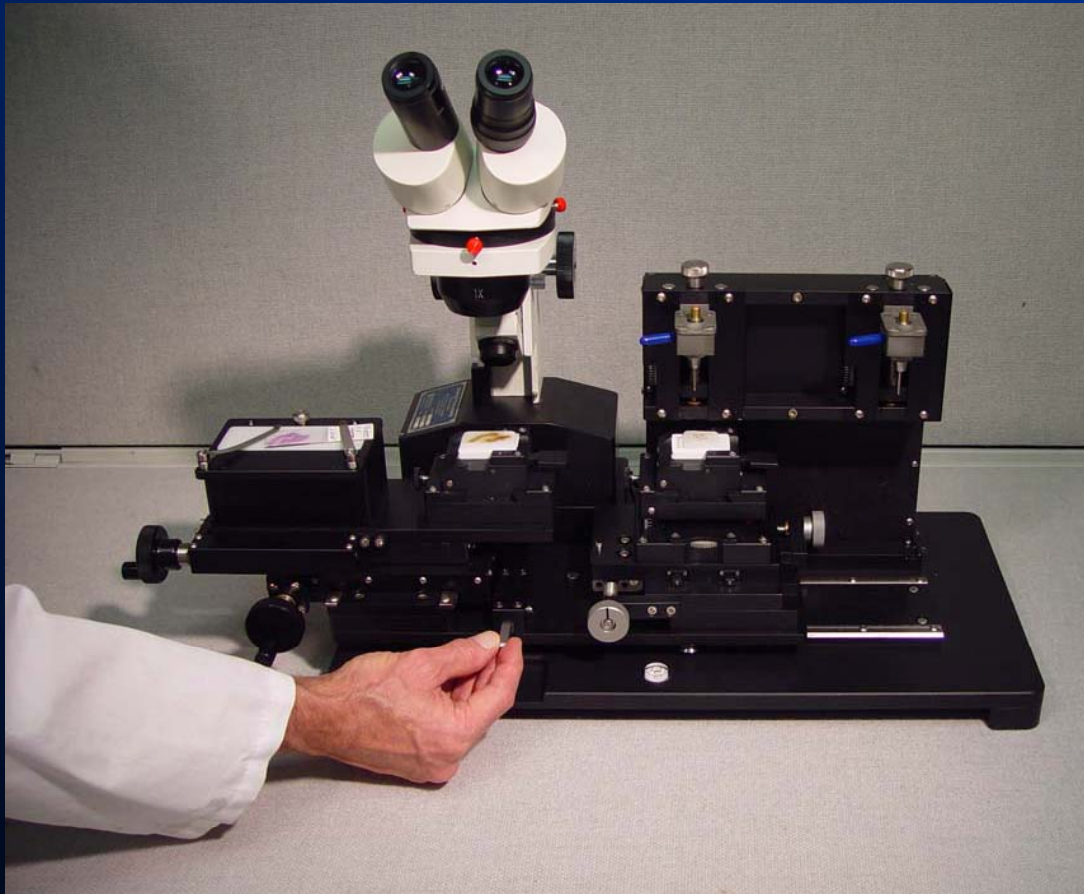
**Use Recipient Needle to punch recipient opening;
remove paraffin core from the Needle using the
Stylus to eject the core**



Use Donor Needle to punch Donor Core from the selected area of Donor Block

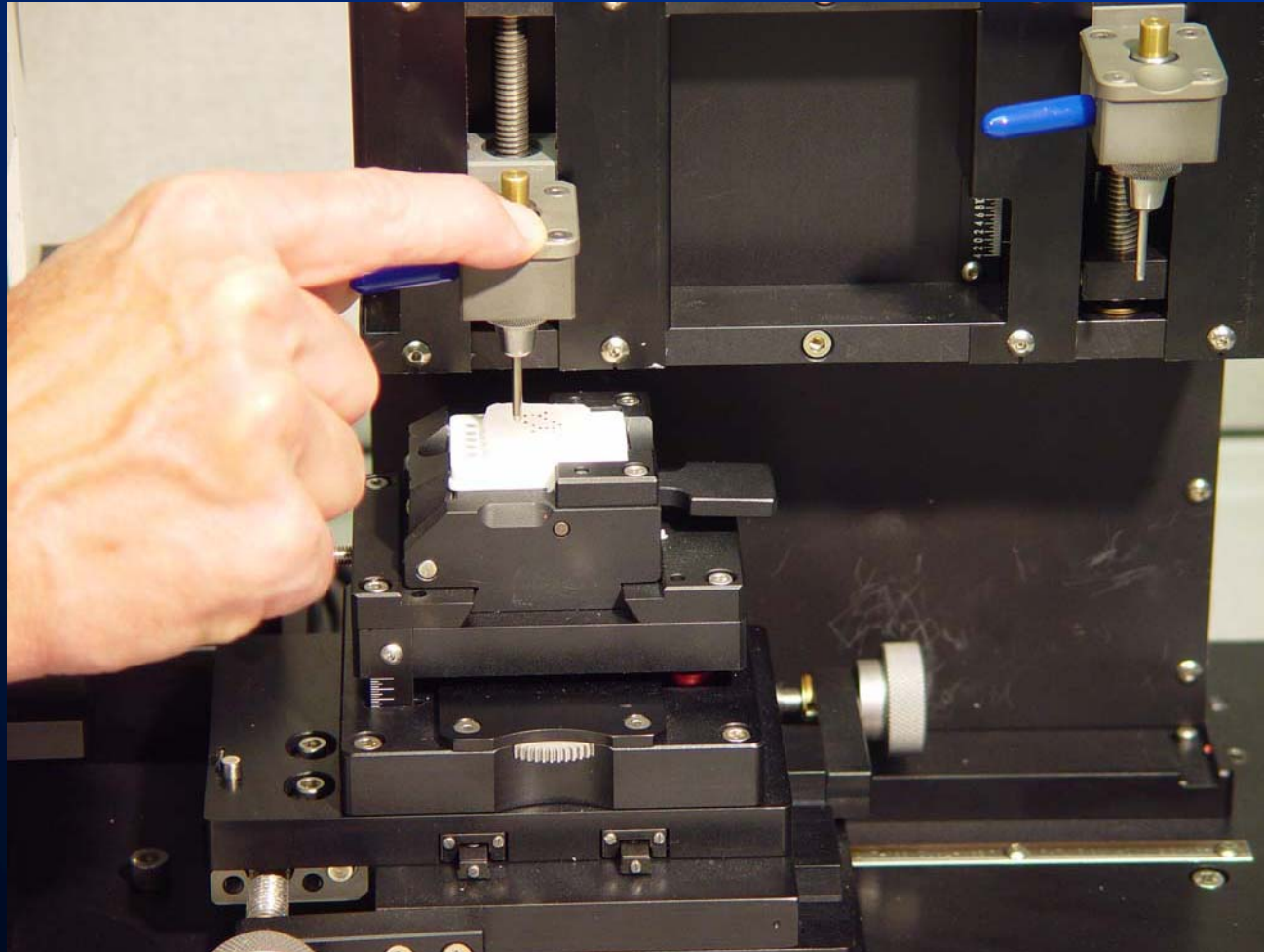


Slide Stage to place Recipient Block under the Donor Needle

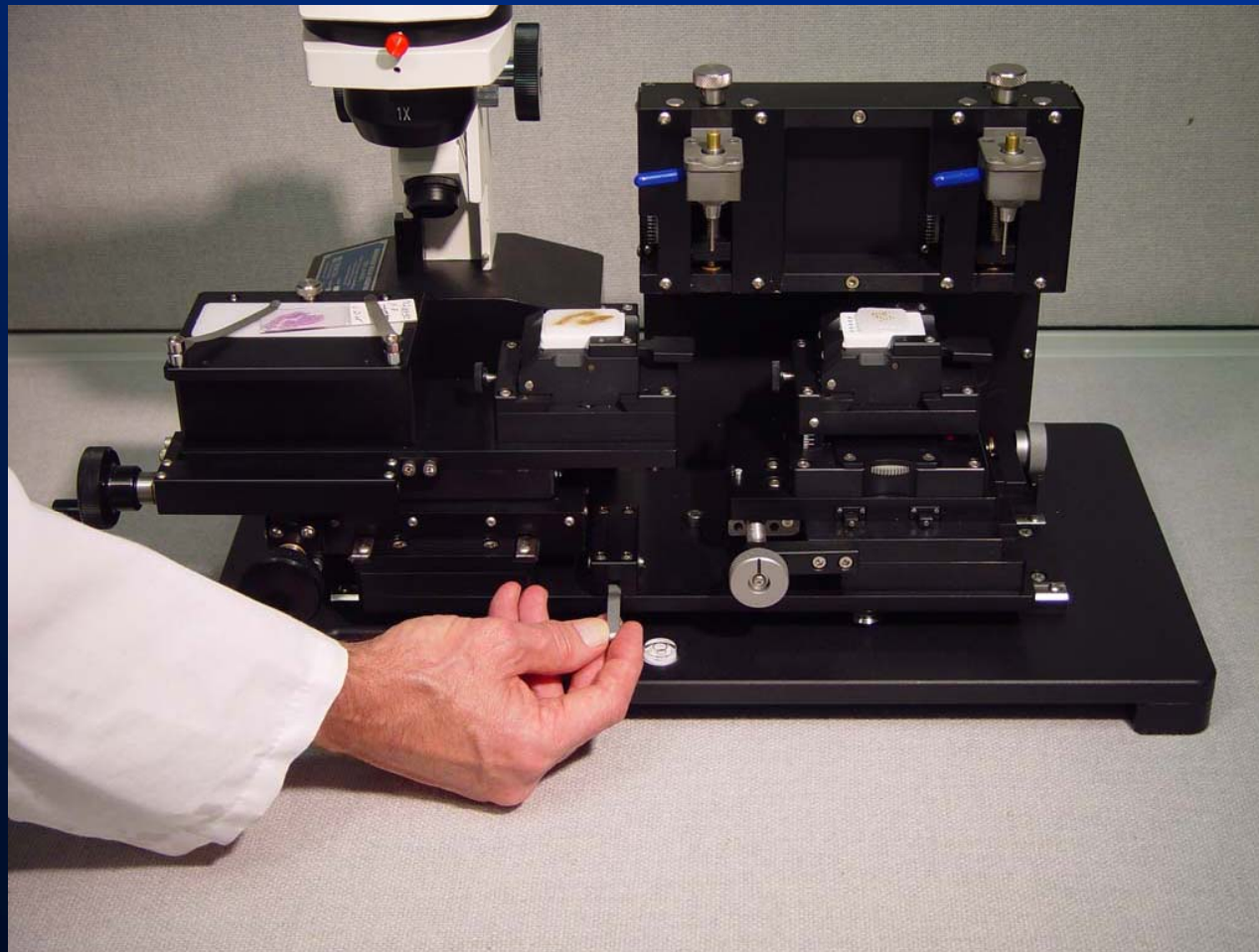


Donor Punch and Recipient Punch are indexed in the instrument to ensure accurate sample delivery

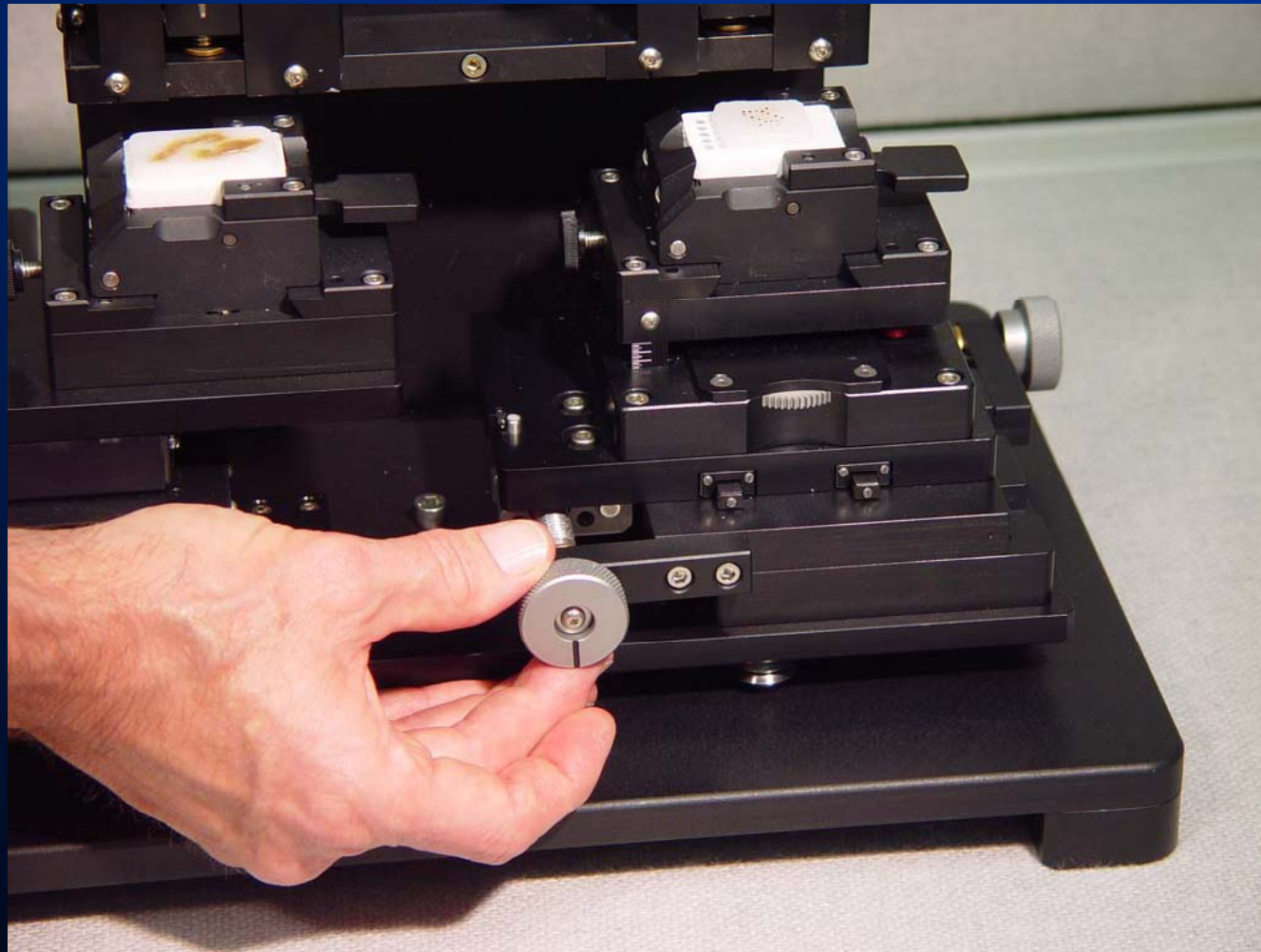
Using the Stylus, deliver Donor Core from Donor Needle into recipient opening (A1)



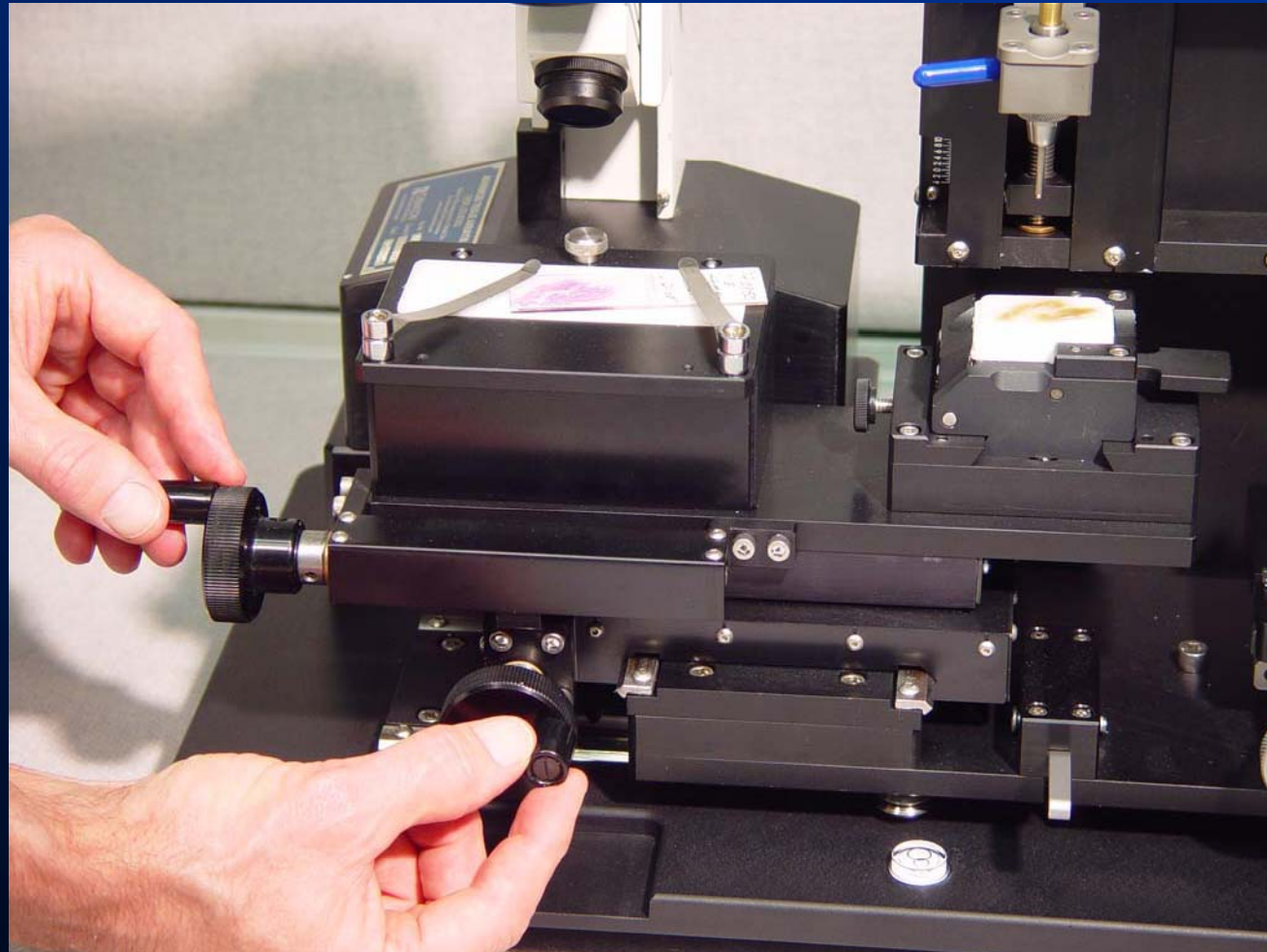
Slide Stage to return Recipient Block back under Recipient Needle



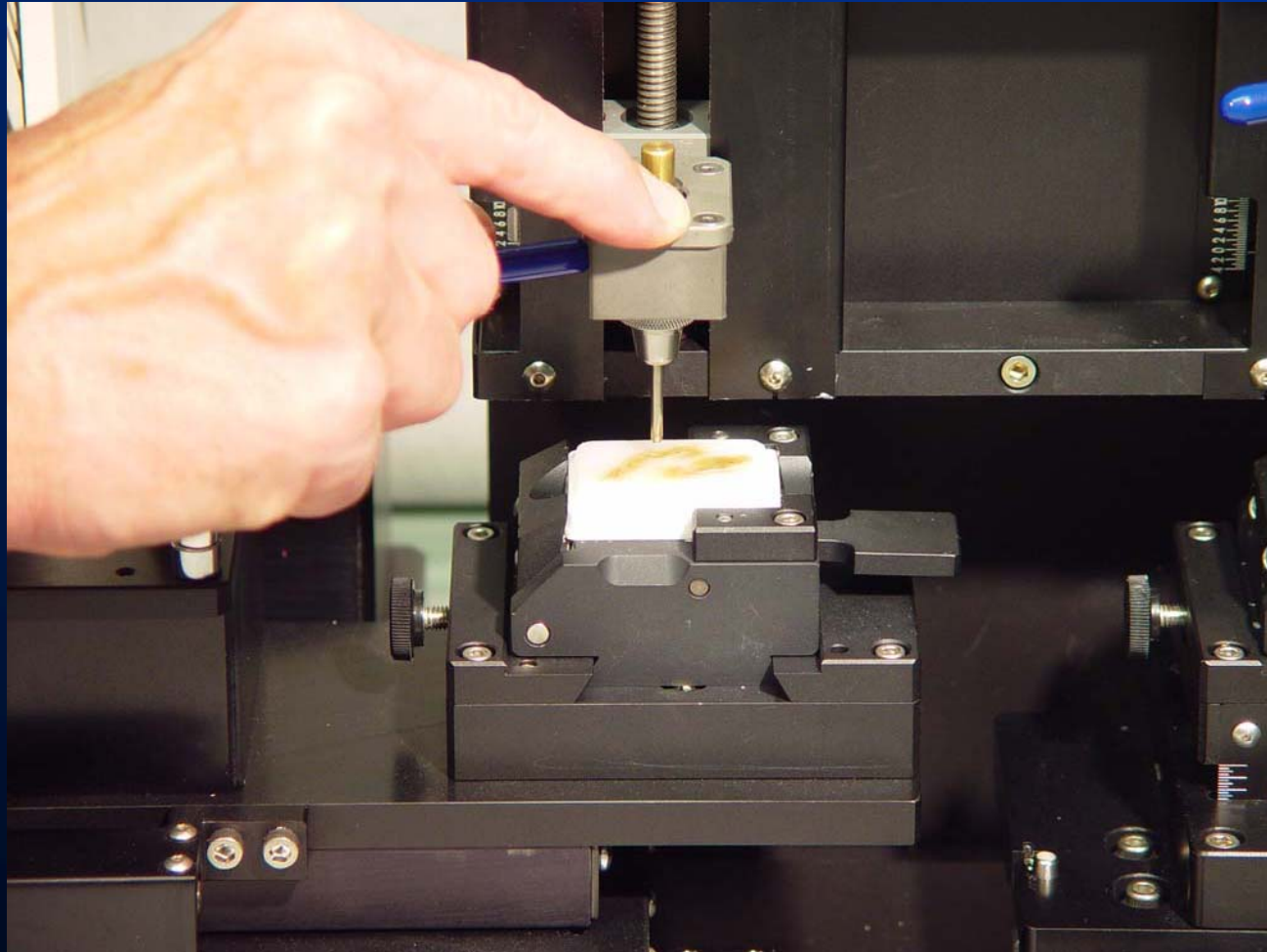
Move Recipient Block Holder to the next position (A2), punch a new opening, and extract paraffin core



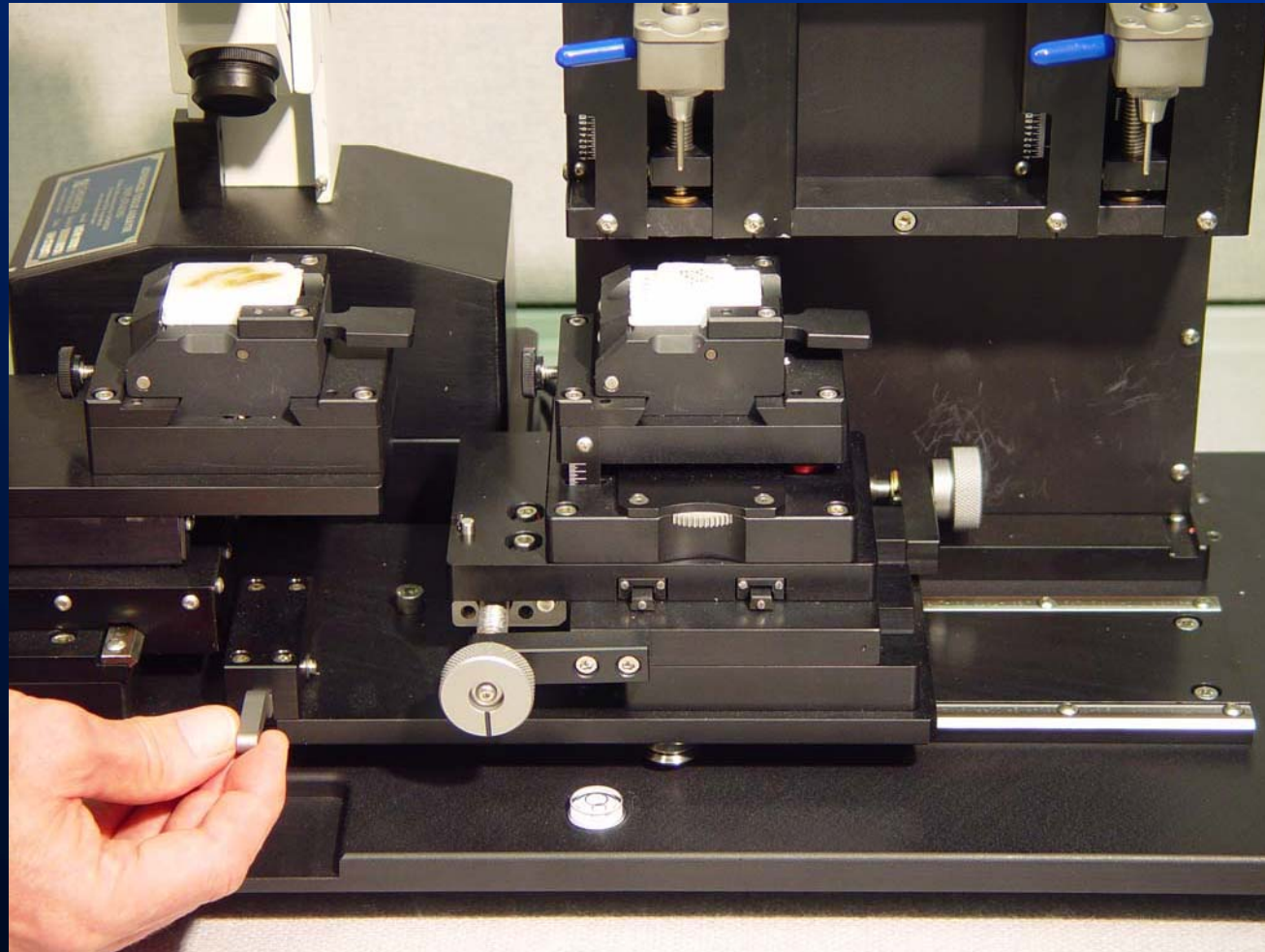
Select next area of tissue from Reference Slide to be punched using Donor Needle



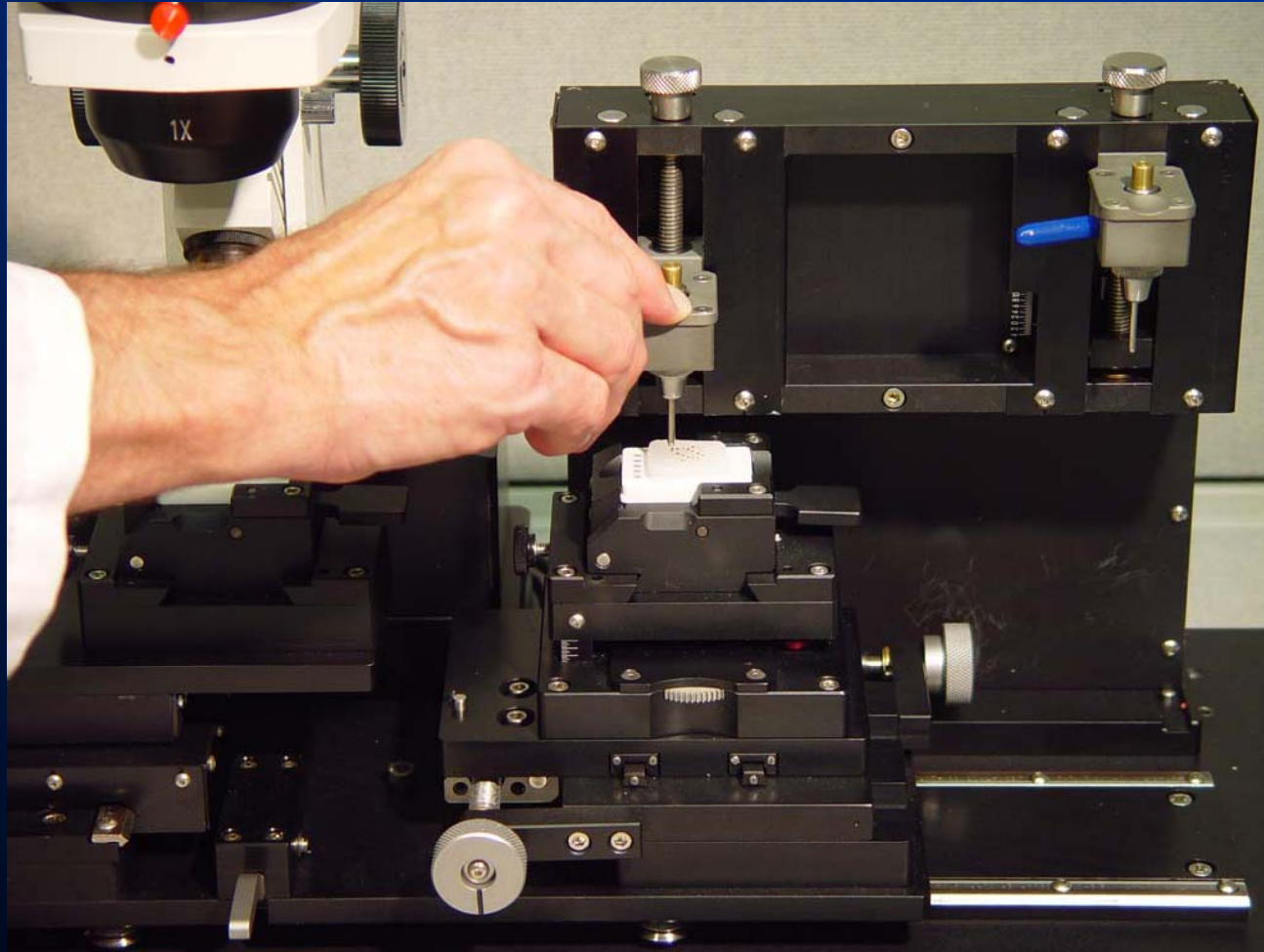
Use Donor Needle to punch next Donor Core (to be delivered to position A2) from Donor Block



Slide Stage to place Recipient Block under the Donor Needle

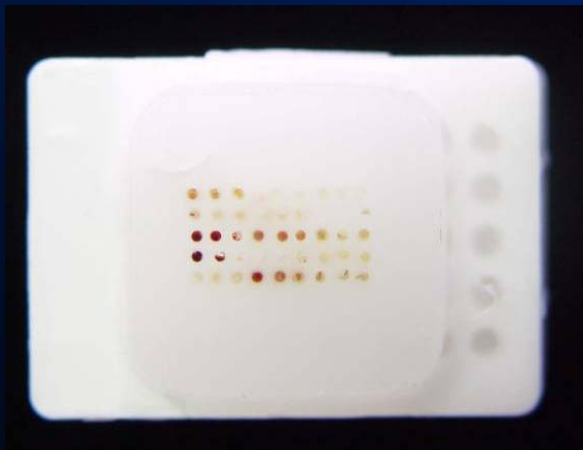
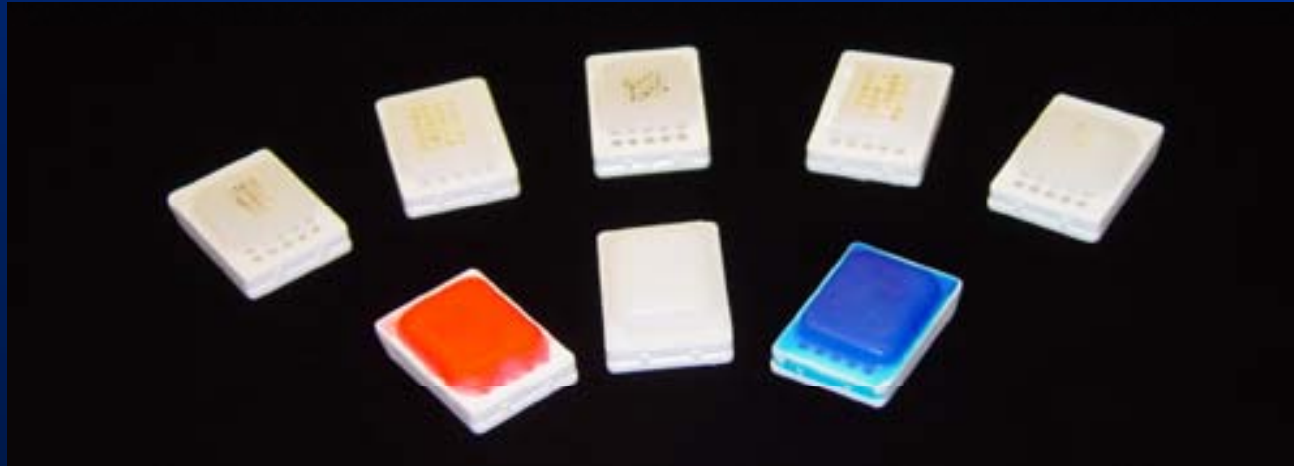


Deliver Donor Core from Donor Needle, using the Stylus, into Recipient Opening (A2)





Repeat the sequence until tissue array grid is complete



This 5 x 9 tissue array block was made using Veridiam Arrayer in 45 minutes



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