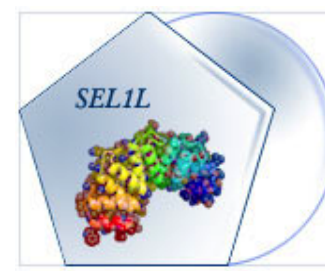


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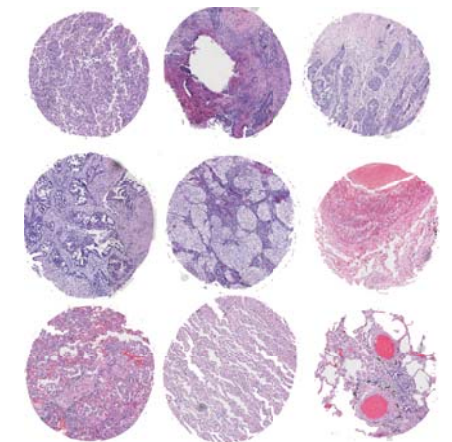


**Integrated
Systems
Engineering S.r.l.**

biotechnology & bioengineering

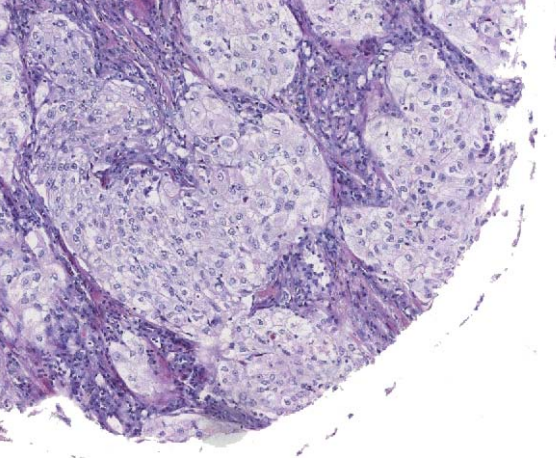
Tissue Micro-Arrayer
fully automated

NEW



DISTRIBUTOR

www.everbiotech.com



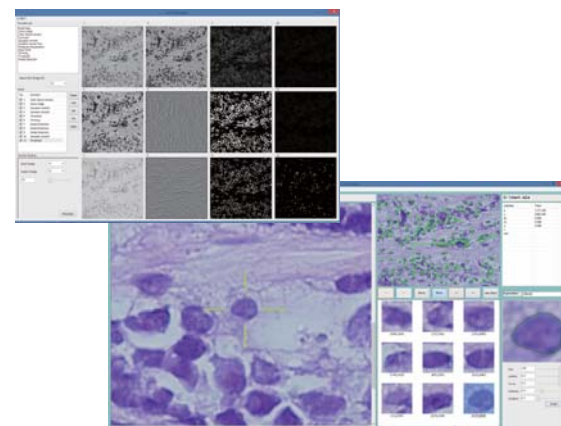
Expecting the growing workload demanded at the age of personalized medicine, we promises to bring our clinical partners

- (i) improved accuracy;
- (ii) increased speed;
- (iii) reduced misidentification and
- (iv) frees up the lab technician to be utilized for other tasks

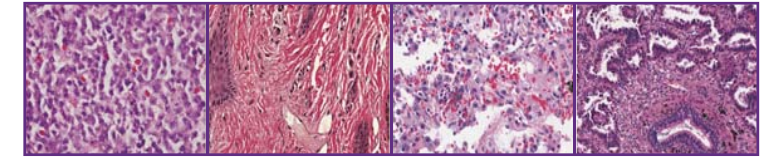


EverBio Technology is committed to advancing the medical research through innovative workflow and image mining.

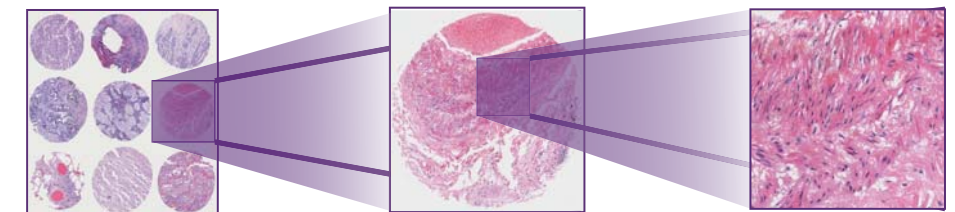
We provide customization service in designing more efficient algorithm specifically implemented to meet our partner's criteria in terms of texture analysis and morphology analysis which generate analytic report available for further quantitative investigation.



Advanced Tissue Micro-Arrayer



Digital pathology can substantially enhance the efficiency and accuracy of histopathological diagnosis. New pathology techniques, such as tissue microarray (TMA) advances workflow in translational research for both determining biomarkers related to the prognosis and response to specific therapy of malignant tumors.



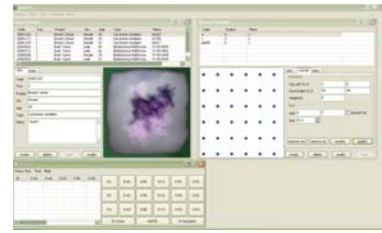
AutoTiss System takes advantage of the patented automation technology and image mining techniques for rapidly accessing and analyzing information embedded in stained slides of prestigious tissue.

PATENT DESIGN

data record

data record

Integrated software; allowing user to import and export excel files directly using database interface. These files can be used to repeat the process or to modify for correction. Mark, edit and save punch coordinates using digitally captured image and software tools.



consistency & flexibility

AutoTiss allows both batch processing as well as manual processing for rework. On top of that, user defined grid size and gap size as well as partition among rows and columns makes this unique system more advanced than its peers.

User can use any standard commercial blocks.

quality & durability

Utilizing U.S. patented coaxial puncher design, AutoTiss is equipped with automatic puncher rotation and wax ejection. Coaxial puncher allows tight junction between donor and recipient for eliminating lost core. Our medical graded stainless needle is specially made for sharp thrust and long life. Even though the mechanical design is sophisticated, cleaning the unwanted wax and puncher maintenance can be done within seconds.

accuracy



High resolution digital camera (13mega pixel) is used to take macroscopic pictures for both donor and recipient blocks as reference image for accurate target selection and grid customization. Built-in laser height sensor allows system to adapt both recipient and donor blocks with different height to

ensure .



Patented design block holder is a compact rotator for shortening travel distance between donors and recipient, and yet allowing this bench-top unit to have a built-in heating system. Keeping wax warm is crucial for processing high-density block. Maximum number of cores is not limited, but suggested as follows:

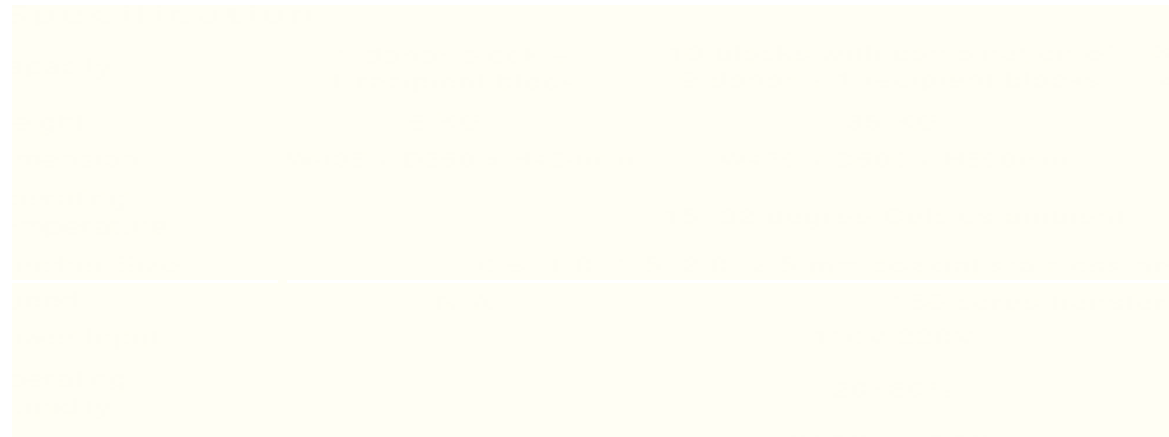
0.6 mm(600), 1.0 mm(320), 1.5 mm(240), 2.0mm(84), 2.5mm(35)

capacity



Fully Automated Tissue Micro-Arrayer

- * Batch based
- * Fully automated control
- * Project base TMA creation
- * Replicate layout and clone TMA blocks
- * Excel Format for import/export clinical data
- * Digital Slide overlay (4 corner tilting, scaling)
- * Custom recipient block design and production
- * Custom rework for selected position on recipient block

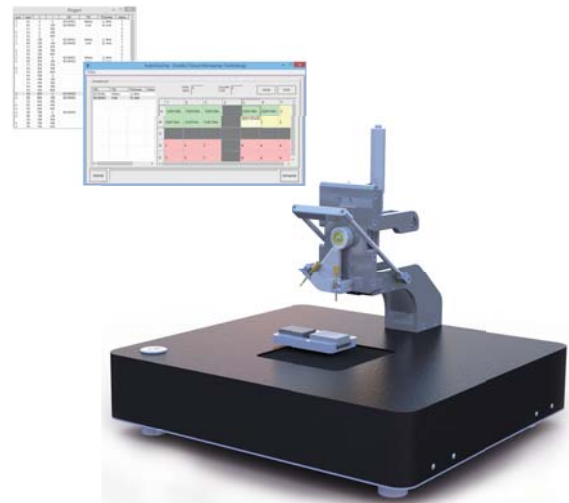


AutoTiss 10c

- * Fully-automated control
- * 9 donor + 1 recipient

AutoTiss One

- * Semi-automated control
- * Project base TMA creation
- * Replicate layout and clone TMA blocks
- * Custom recipient block design and production
- * Custom rework for selected position on recipient block



Tissue Micro Arrayer Specification Chart

	AutoTiss One	AutoTiss 10C	AutoTiss 1000
Specification			
Capacity	1 donor block + 1 recipient block	10 blocks with combination of 9 donor + 1 recipient blocks	30 blocks with combination of 27 donor + 3 recipient blocks
Weight	5 KG	35 KG	95 KG
Dimension	W405 x D350 x H424mm	W470 x D500 x H500mm	W1200 x D800 x H750mm
Operating Temperature	15~32 degree Celcius ambient		
Puncher Size	0.6, 1.0, 1.5, 2.0, 2.5 mm coaxial stainless needle sets		
Speed	N/A	150 cores transferred per hour	
Power Input	110V/220V		
Operating Humidity	20~80%		
Max. Loading	XY 8Kg / Z 3Kg		
Resolution	0.01mm / Axis		
Repeatability	+/- 0.01mm / Axis		
Motor System	Micro Step Servo Motor		
Max. Speed	XY-100 (mm/sec)	XY-300-Z-100 (mm/sec)	
Driving Method	XY-Screbal axis	XYZ-Screwbal axis	
Loading Method	Manual loading tray	Rotation Tray with easy loading	
Control Method	PC-based Computer Numerical Control (CNC)		
Merging Method	N/A	13 Mega Pixel High resolution camera with auto focus	
Selection Method	Visual selection	On screen viewing and selection	
Lighting Method	N/A	LED ring light illumination	
Identification Method	N/A	Barcode reader (optional)	
Heating Method	N/A	Built-in heater block holder	
Block Height Measurement	N/A	High precision laser height sensor	
Software			
Data Input	Tissue block information in excel format		
Project Management	Import and export Tissue block Data files in Excel Format		
	Export block image and array data		
	Save workflow in file for repeat arraying		
Processing Workflow	Advance and easy punch area selection		
Donor Selection	Manual Selection	Mark, edit and save punch coordinates using an on-screen display and software tools	
Recipient Layout	Easy array programming with punch size selection and core annotation		