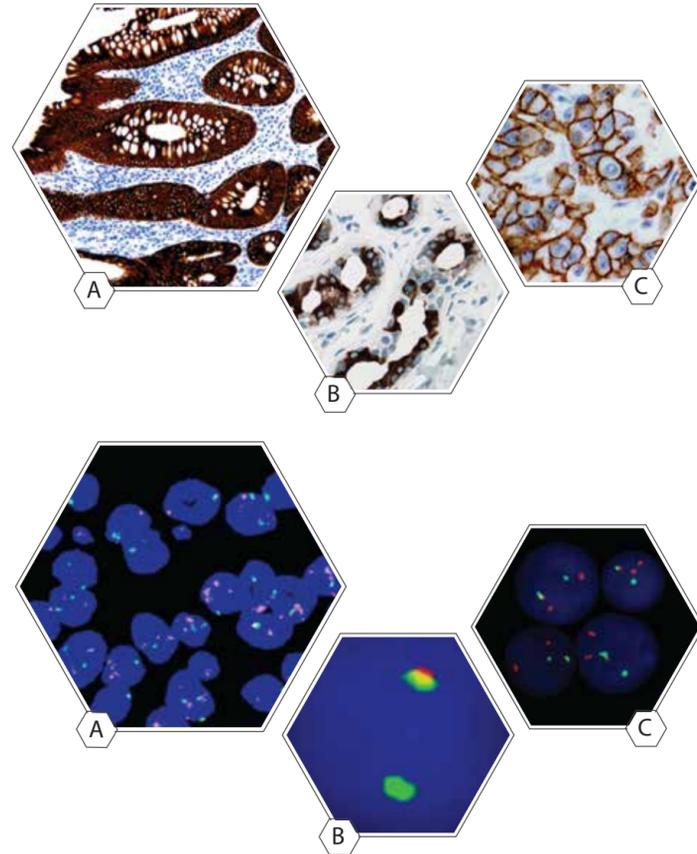


## Infinite Possibilities...for Translational and Clinical Research



### IHC

- A. Anti-CK18
- B. Anti-GCDFP-15
- C. Anti-ErbB-2/Her2

### FISH

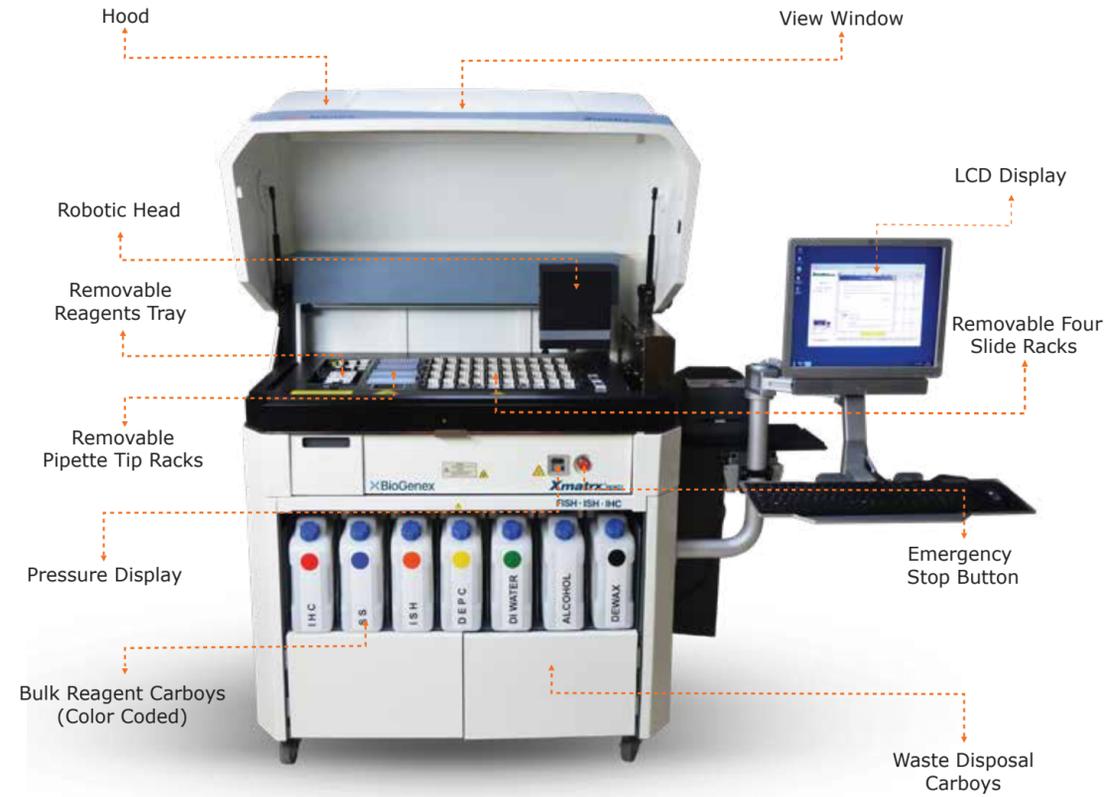
- A. FISH EGFR
- B. FISH Break apart ALK
- C. FISH HER2

### System Specifications

Parameters	Xmatrix <sup>®</sup> Infinity	Parameters	Xmatrix <sup>®</sup> Infinity
Automation	Full (baking through coverslip)	Slide temperature range	25-105 °C
Slide capacity	40 slides	Configuration	Free standing
Reagent capacity	49 reagent vials	Protocols	Template Protocol
Reagent vial capacity	16 mL and 5 mL	Operating temperature	15-30 °C
Bulk reagent carboy & capacity	7 x 4 L	Operating humidity	15%-55% RH
Waste container & capacity	2 x 8 L	Operating voltage	115/230 V AC, 60/50 Hz, 900 W
Slide sensing	Open	Dimensions (D/W/H)	29" x 66" x 59"
Reagent sensing	Open	Weight	400 lb/182 Kg
Reagent dispense volumes	10-800 µL		
Reagent dispenser	Pipette tips		

# Xmatrix<sup>®</sup> Infinity

Infinite Possibilities...  
...for Translational and Clinical Research



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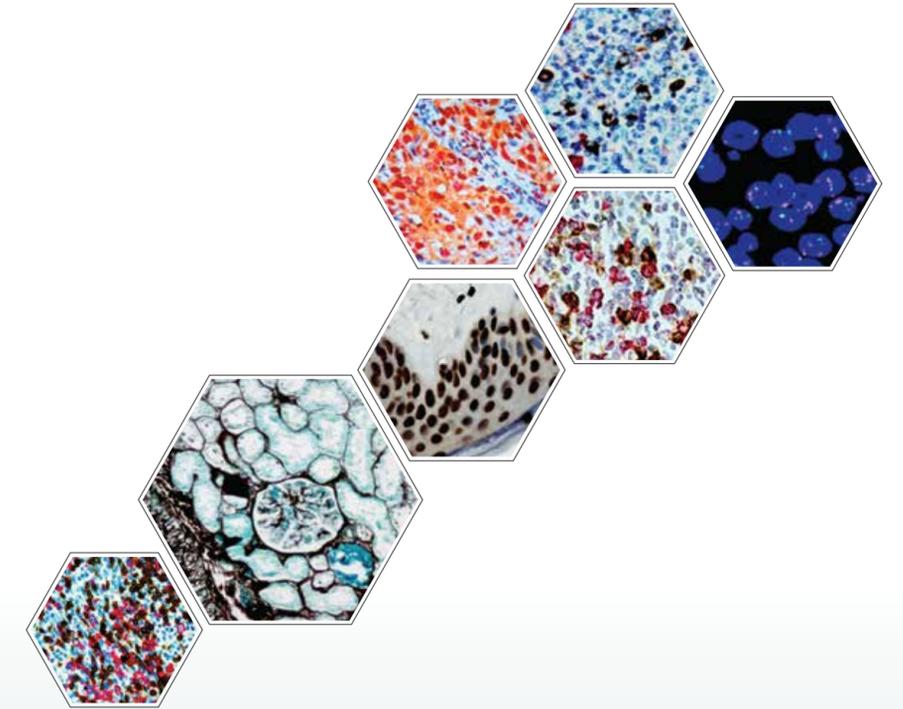


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**BioGenex**  
 Accelerating the pace of precision Oncology

# Xmatrix<sup>®</sup> Infinity

Infinite Possibilities...  
...for Translational and Clinical Research



Optimize up to 40 assay  
parameters in a single run

All-in-One

IHC, IF, ISH, FISH,  
miRNA ISH

**BioGenex**  
 Accelerating the pace of precision Oncology

Infinite Possibilities...  
...for Translational and Clinical Research



## Key Features:

- Xmatrix<sup>®</sup> - a platform technology consisting of fully automated sample processing system, detection kits, antibodies and probes for molecular diagnostics, and translational & clinical research.
- Key technology differentiators are: forty independently controlled thermocyclable (PCR) work stations, a reaction micro-chamber at each position, reagent vials, and bulk-fluidics that enable complete automation of any slide based assays.
  - IHC, IF, ISH, FISH, miRNA
  - Co-detection and multiplexing of nucleic acid and protein biomarkers
- Xmatrix<sup>®</sup> Infinity is designed for the life science research, and drug discovery & development. The system adapts and completely automates any manual protocol including denaturation, hybridization, stringency washes, counter stain and final coverslip.
- Multiplexing of ISH and IHC in the same specimen, a hallmark of the system, facilitates co-detection of multiple biomarkers while preserving the tissue morphology and spatial information. The *in situ* quantitative gene-expression profiling enables target identification, prioritization, selection and validation.

## Key Features & Benefits



### Accelerate the pace of discovery...

- Simultaneous optimization of up to forty parameters in a single run
- Co-detection of multiple nucleic acid and protein biomarkers
- Multiplexing of single or multiple specimens on a single slide
- Multi-format specimen analysis : Tissues - Frozen or FFPE, Cell preparations, Smears, Fine Needle Aspirates (FNA) and many more...



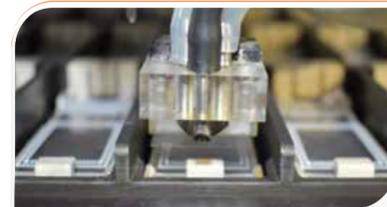
### ...With flexibility and control

- Intuitive software designed for ease of use and flexibility
- Automate any or all steps from baking through final coverslip
- Fully open system, use reagent of your choice
- Adapts and automates any manual slide based assays



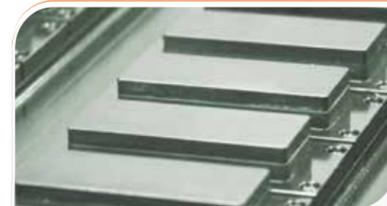
### Ease of Use

- Real-time slide map
- Intelligent bulk fluidics system
- Efficient waste management system
- Reports for inventory management and regulatory compliance



### Reaction microchamber with microfluidics

- Reduces micro-reagent usage up to 90%
- Even distribution of reagents on the specimen
- Overnight incubation/hybridization without drying of specimen



### eXACT<sup>™</sup> Temperature Control and Thermo-cycling

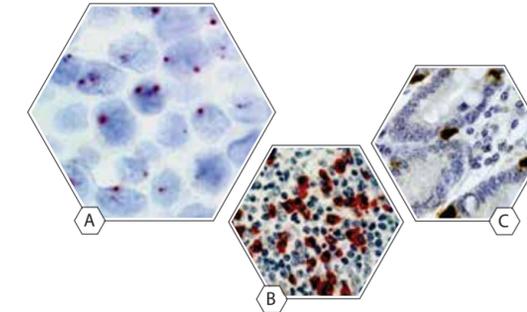
- Forty independently thermocyclable work stations
- Active heating and cooling on each slide - Ambient ⇌ 95 °C in < 2 min
- Temperature uniformity across entire slide ± 0.5 °C
- Optimum operating temperature irrespective of the lab conditions
- Temperature range: ambient to 105 °C



### On-board De-hydration and Final Coverslip

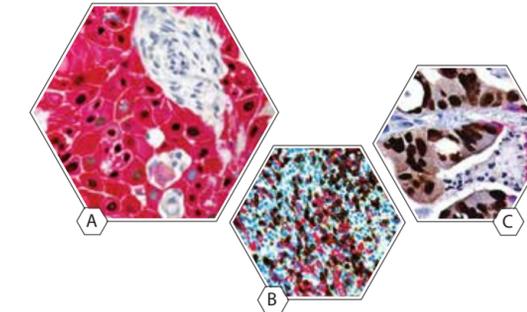
- Eco-friendly (non-xylene) dehydration & clearing
- Permanent mounting and coverslipping
- Curing and cooling

## Infinite Possibilities...for Translational and Clinical Research



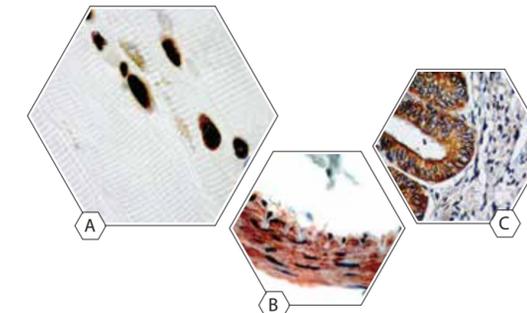
### ISH

- A. HPV Probe
- B. Kappa
- C. Cyclin D1



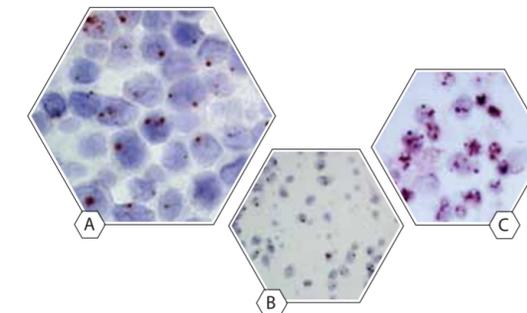
### Multiplex Stains

- A. SCC - Anti-p63 + Anti-CK5
- B. Tonsil - Anti-CD3 + Anti-CD20
- C. Metastatic Carcinoma in Lung - Anti-CDX2 + Anti-CK7



### Hsa - microRNA

- A. miR-1 Human Skeletal Muscle
- B. miR -145 in Human Small Intestine
- C. miR-222 in Human Cervical Ca.



### Single Copy Gene Detection

- A. SiHa
- B. HeLa
- C. Caski