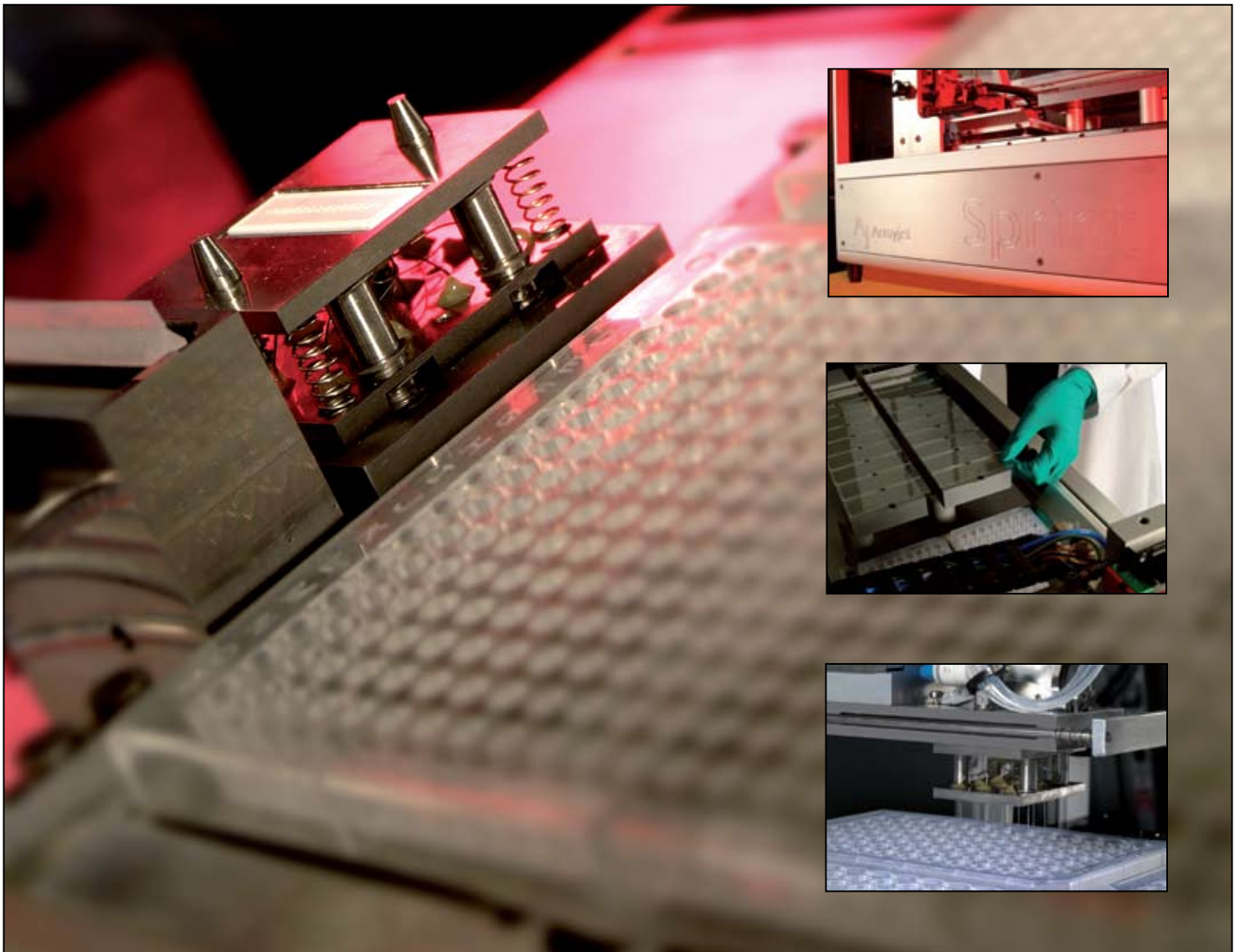




# Sprint inkjet microarrayer

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...powered by inkjet technology

# Microarraying for all your application needs



Finally, reliable, automated, microarray printing available on your benchtop. Put the right tool at your fingertips with the Arrayjet Sprint microarrayer.

**Sprint** reliably handles ultra-low volumes of biological samples including DNA and protein; choose to print on a wide range of slide substrates in the array format that suits your application needs.



Designed for production of small batches of microarrays in R&D focussed environments, **Sprint** produces microarrays on 1 to 20 slides. Print from up to 2 sample plates in a single, fully automated print run.

Applying non-contact inkjet fluidics and unique piezo-electric technology, **Sprint** provides heat-free microarraying and accurate, picolitre dispensing of samples of varying viscosity.



Leaving you free to confidently develop high quality microarrays...



- Antibody Profiling
- Array CGH
- Biomarker Identification
- Carbohydrate Arrays
- Cell Transfection
- Gene Expression
- Kinase Substrate Screening
- Protein-Protein Interactions
- Reverse Phase Arrays

# Put the right technology in...

## ***Bench-Top Installation***

- Compact footprint
- Easy location on a standard laboratory bench
- Proven technology

## ***Performance***

- Automated print head test protocol for print head QC
- Low inter-nozzle CV's
- Reliable X-Y positional accuracy
- Highly uniform spot morphology

***“The morphology of the spotted features is consistently good”***

*Dr Margaret Hughes  
- University of Liverpool*



## ***Speed and precision***

- X-Y axis high resolution positioning for array reproducibility and accurate printing relative to slide features
- Print head addresses each slide in less than 0.2 seconds
- Accurate spot placement
- Flexible slide formats

## ***Flexibility***

- 96/384 well sample plates printed to multiple slide substrates
- Replicate printing (duplicate, triplicate sample sets/slide)
- Overlay printing  
- on the fly or in subsequent runs
- Create customised layouts with Array Multiplier™



### ***Sample Tracking and Data Output***

- Multiple input file formats and industry standard .GAL and .CSV output files
- Flexible input/output file merging

### ***Simple Set-up***

- Easy set-up and maintenance via automated protocols
- Removable carriers for easy slide/plate loading
- Pause function for on-line plate replenishment
- Automatic user prompts (e.g. add more sample plates)
- Control array printing parameters via user friendly windows interface

### ***Reliability***

- Industrial standard print head technology
- Automatic maintenance protocols for JetSpyder™ and print head fluidics
- Designed for unattended operation
- Automated pre-run print head test protocol

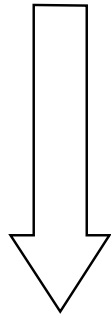
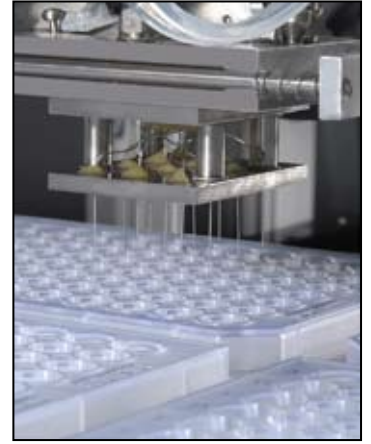
***“We have significantly reduced the time taken to print our arrays, plus set-up is fast and easy”***

*Alison Downing  
- ARK-Genomics, Roslin Institute*

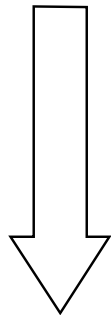
**...Get the right results out**

# Innovative Arrayjet Technology

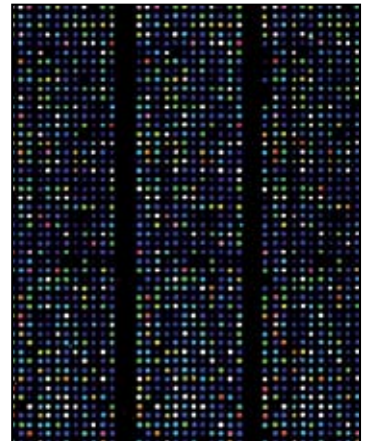
**JetSpyder™ sampler for rapid sample loading:**  
12 samples simultaneously loaded from a microtitre plate.



**Piezoelectric inkjet print head:**  
Flexible and ultra-fast array production. Deliver volumes in the pico/nanolitre range. No heat or charge transfer to samples.

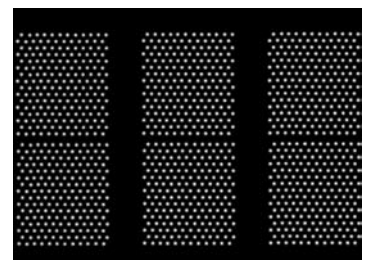


**High quality spotting capability:**  
Precise drop positioning. Spot multiple drops to same spot position. Overlay entire arrays.



**Reliable, walk-away production...**

- Automatically print up to 20 slides
- Customise layouts with Array Multiplier™
- Spot to multiple slide/surface chemistries
- Easily track samples pre-and post-array





**Technical specification:**

<b>Microtitre plate options</b>	96/384 well	<b>Drop volume</b>	100 picolitres (100pL)
<b>Minimum well volume</b>	5-10 microlitres (5-10µL)	<b>Dimensions HxWxD</b>	0.49 x 0.93 x 0.65m (19.3 x 36.6 x 25.6in)
<b>Slide dimensions</b>	25 x 75mm (1 x 3in)	<b>Weight</b>	65kg (143lbs)
<b>Spot density*</b>	44,000 plus per side	<b>Power</b>	230Vac; 50/60Hz (110Vac; 50/60Hz)
<b>No. Sample plates</b>	1 - 4	<b>No. Slides</b>	1 - 20

For research purposes only

\*Dependent on buffer and surface chemistry

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