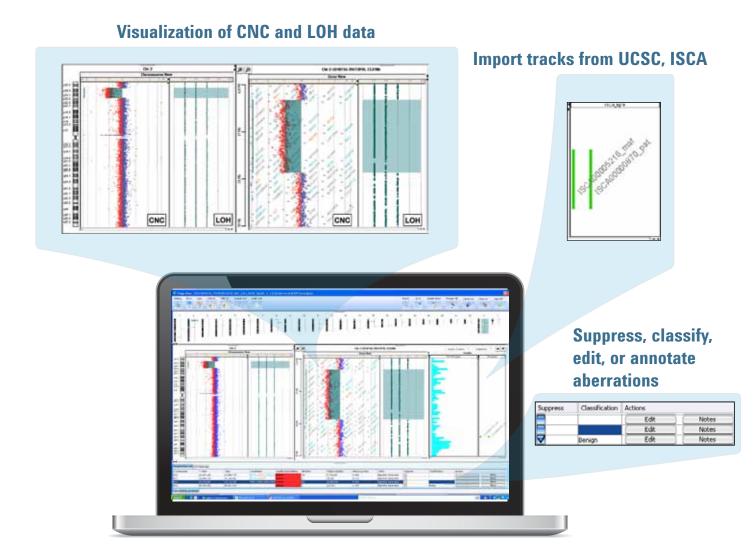


AGILENT CYTOGENETIC RESEARCH SOLUTION VARIANTS BETTER DEFINED



Agilent CytoGenomics Software: Designed Specifically for Cytogenetic Research



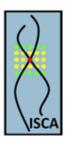
Try Agilent CytoGenomics Software today at www.agilent.com/genomics/cyto_download

Putting Data into Context

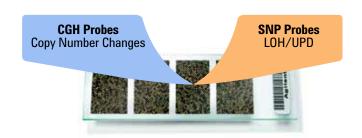
- Compare data to external databases including OMIM and DGV
- · Search and compare with your in-house database
- Automate TIFF image upload, feature extraction, and analysis
- · Generate custom reports
- Streamline analysis of normal constitutional samples in less than 5 minutes

Agilent Cytogenetic Research Solution Market Leader & Trusted Choice in Cytogenetics

Most Trusted Microarray Platform



- Reviewed and approved by ISCA
 (International Standards for Cytogenomic Arrays Consortium), consistent with ISCA recommendations
- Cancer microarray based on designs by the CCMC (Cancer Cytogenomics Cancer Consortium) and used by consortium members
- Easy Customization with Agilent eArray:
 Use Agilent's web based tool to create custom array designs and target specific genomic regions



Manufactured under ISO13485 certification.

Agilent's Comprehensive Solution from Sample to Result

Cytogenetic Reagents

CGH+SNP Microarrays Bravo Automated Liquid Handling & SureScan

Cytogenomics Software

Labeling,
Hybridization & Wash



Reagents that help maximize sensitivity and array performance

Microarray



Detect copy number changes and copy neutral aberrations on the same microarray

Liquid Handling & Scanning



Automated liquid handling protocols for CGH+SNP, and industryleading scanner enables crisp, clean images **Data Analysis**



Easy to use software for streamlined analysis

Get the Highest Confidence In Your Results

Better Aberration Detection: SurePrint G3 CGH+SNP Microarrays

- · Simultaneous detection of copy neutral aberrations such as LOH and UPD
- 60-mers generate most accurate copy number detection and highest quality copy number change data
- Choose from 65,000 genotypable SNPs and more than 28 million pre-qualified CGH probes



Agilent Reagents for Cytogenetic Research

Agilent's reagents include all components necessary to maximize sensitivity, array performance and streamline your workflow.



Labeling Reagents and Dves



Free dye removal columns



Reference DNA



Cot-1 DNA



Wash Buffers



Hybridization Buffers

Automated Platform for Throughput & Reproducibility

- Automates CGH+SNP sample fragmentation, labeling, purification, and pre-hybridization setup in a 96-well format
- Ready-to-go, validated protocols for both standard enzymatic and ULS methodologies



Agilent Bravo Automated Liquid Handling Platform

Agilent's High Resolution Microarray Scanner

- Calibrated with an absolute NIST-traceable calibration method, so you can be confident in your results over time
- Built-in ozone protection minimizes signal degradation
- Continuous slide-loading capability to remove batch-loading restrictions



Compact platform, manufactured under IS013485 certification.

Sensitivity & Specificity for Variants Better Defined

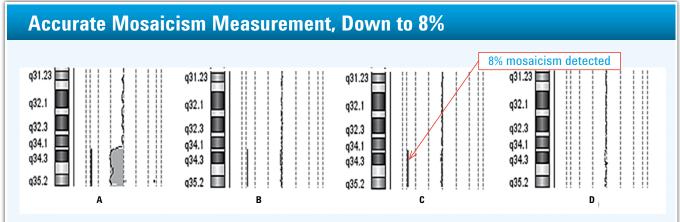
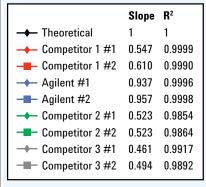


Figure 1. Partial profiles of a sample with a terminal deletion on chromosome 4. Panel A: Sample's 100% DNA, B: Synthetic mosaicism at 10% level, C: 8%, D: 7%. The Agilent arrays are able to detect the deletion at the 8% and 10% level, but not at the 7% level. *R. Valli et al, Molecular Cytogenetics, 2011*

Superior Dynamic Range



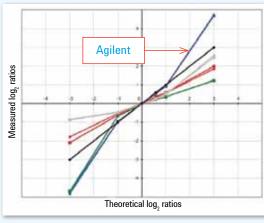


Figure 2. Plot of measured log₂ ratios compared to theoretical values for 4 different microarray platforms. The slope is closest to the theoretical value for the Agilent arrays.

Kresse et al, BMC Research Notes, August, 2010

Higher Resolution than Competition AGILENT 244K AGILENT 1M **COMPETITOR 1** Figure 3. Myeloma cell line DNA hybridized to Agilent 244K, Agilent 1M and competitor array (> 2 million probes). The Detected competitor's array is unable to call a focal gain on PAX5 identified by 8 and 31 probes Not Detected using the Agilent 244K and Agilent 1M arrays, respectively. Braggio et al, AACR poster, 8 probe CN change 31 probe CN change April, 2010

A COMPLETE MENU OF CYTOGENETIC RESEARCH PRODUCTS

Agilent SurePrint G3 CGH+SNP Microarrays

Description	Area of Focus	Part Number
SurePrint G3 Human CGH+SNP Microarray 4x180K	ISCA	G4890A
SurePrint G3 Human CGH+SNP Cancer Microarray 4x180K	Cancer Genes	G4869A
SurePrint G3 Human CGH+SNP Microarray 2x400K	Genes and exons	G4842A
SurePrint G3 Custom CGH+SNP Microarray 1x1M	User-defined	G4882A
SurePrint G3 Custom CGH+SNP Microarray 2x400K	User-defined	G4883A
SurePrint G3 Custom CGH+SNP Microarray 4x180K	User-defined	G4884A
SurePrint G3 Custom CGH+SNP Microarray 8x60K	User-defined	G4885A

Reagents, Scanner, and Software

Processing Step	Product Name	Part Number
Sample Labeling	SureTag Complete DNA Labeling Kit	5190-4240
Sample Hybridization	Oligo aCGH/ChIP-on-chip Hybridization Kit (25 or 100 slides)	5188-5220 or 5188-5380
Sample Hybridization	Human Cot-1 DNA	5190-3393
Microarray Wash	Oligo aCGH/ChIP-on-chip Wash Buffer Kit	5188-5226
DNA Microarray Scanner	SureScan Microarray Scanner Bundle	G4900DA
Hybridization Oven & Accessories	Hybridization Oven Hybridization Chamber Rotator Rack	G2545A G2530-60029
Hybridization Chamber & Accessories	SureHyb Hybridization Chamber—Stainless Hybridization Backing Kit	G2534A Varies by array format and quantity
Liquid Handler	Bravo Automated Liquid Handling Platform	G5409A Option 002
Data Analysis	CytoGenomics Software	G1662AA-G1667AA

Agilent microarrays, reagents, and scanners are manufactured under ISO13485 certification.

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