

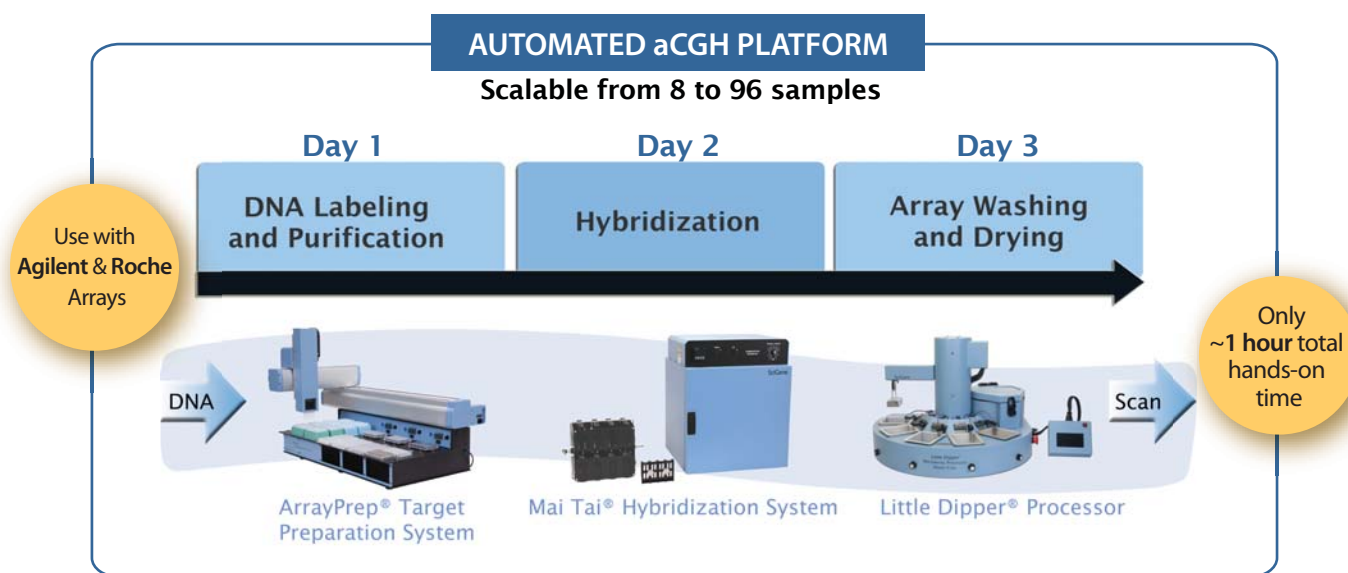
SciGene Automates the aCGH Workflow

Reduces Operating Costs and Enhances Test Reliability

SciGene Automates Benchwork from DNA to Scanner

Laboratory methods for performing aCGH-based tests are tedious, complex and time consuming which often leads to poor patient test results. SciGene's solution for improved reliability of aCGH-based tests is to automate the entire sample handling workflow with three specialized instruments.

Starting with genomic DNA, the instruments perform all labeling to post hybridization processing steps to produce arrays ready for scanning. The instruments standardize the workflow, reduce technician hands-on time and produce consistently reliable data. Use the components separately or together to achieve a powerful platform for automating aCGH-based tests.



ArrayPrep® Target Preparation System

The ArrayPrep System automates DNA labeling and purification then loads samples onto microarrays. DNA and reagents are loaded on the platform after which the instrument performs optimized protocols for processing up to 96 samples. Automation with the ArrayPrep System provides the laboratory enormous savings in labor and improves overall test reliability.



The ArrayPrep® System labels and purifies DNA samples for enhanced aCGH test reliability.

Mai Tai® Hybridization System

The Mai Tai System consists of an automation-compatible, multiple slide hybridization cassette and rotating oven. To set up hybridizations, cassettes are placed on the ArrayPrep instrument and labeled DNA samples are automatically loaded. Cassettes are then sealed for "bubble mixing" during hybridization by rotating in a CLIA-compliant oven.

Little Dipper® Processor

At the completion of hybridization with the Mai Tai System, slides are removed from the cassettes, washed and then dried using the Little Dipper Processor. Up to 24 slides can be processed at one time following optimized protocols developed for popular platforms (Agilent, Roche NimbleGen, etc). The Little Dipper Processor reduces batch-to-batch variability often seen with manual processing and produces clean arrays with consistently low backgrounds ready for scanning.