ImaGene® 8.0

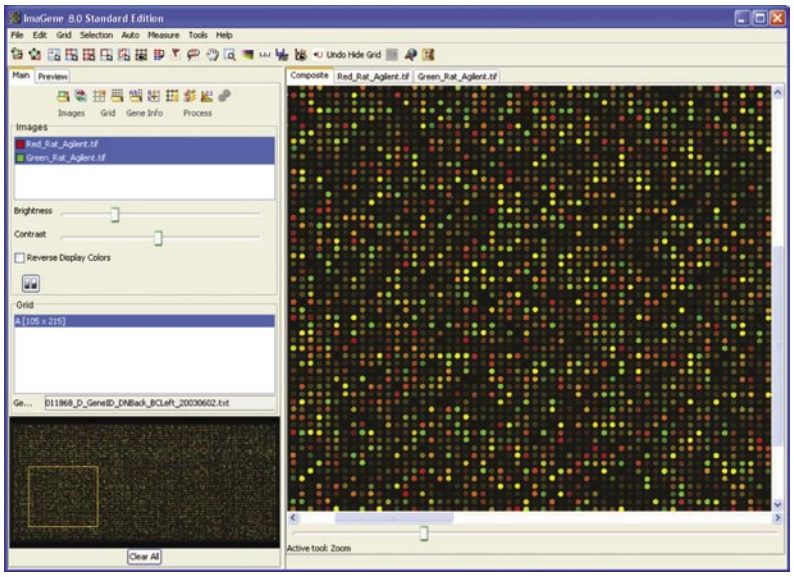
The leading tool for microarray image processing and visualization

BioDiscovery, Inc.
www.biodiscovery.com

ImaGene 8.0 from BioDiscovery is the leading-edge microarray analysis software that offers optimal performance with the broadest and most refined features available today. Through proprietary machine vision technology, ImaGene 8.0 delivers the highest quality data and most powerful automation to quantify, normalize and analyze your experiments.

Utilizing patented algorithms and processes, ImaGene 8.0 provides the most reliable data for your microarray experiments. And, the easy to use software interface and elegant navigation makes it a snap to learn and become productive. With just a few mouse clicks, ImaGene 8.0 can quantify, normalize and analyze your microarray experiments.

ImaGene 8.0 and our complementary modules for expression analysis and aCGH analysis enable the broadest and most refined microarray data analysis. It's time to take a closer look at the pioneering and most advanced microarray analysis software used by leading labs from around the globe for over ten years – ImaGene 8.0.



ImaGene 8.0 product interface - *easy to learn and use*

Cutting Edge Features - Optimal Results

ImaGene 8.0 offers the latest and most advanced features allowing you to rapidly explore the data from your microarray experiments with the highest level of confidence in its integrity.

> *"My lab has used ImaGene for many years. We are often asked to review competing products but after careful analysis we find ImaGene consistently yields higher quality results while also offering the best ease of use, and visualization tools. We recommend this software to anyone working with spotted arrays."*
>
> **Dr. Norma J. Nowak**
> Director Microarray and Genomics Facility
> Roswell Park Cancer Institute and University at Buffalo

Most Advanced Automation

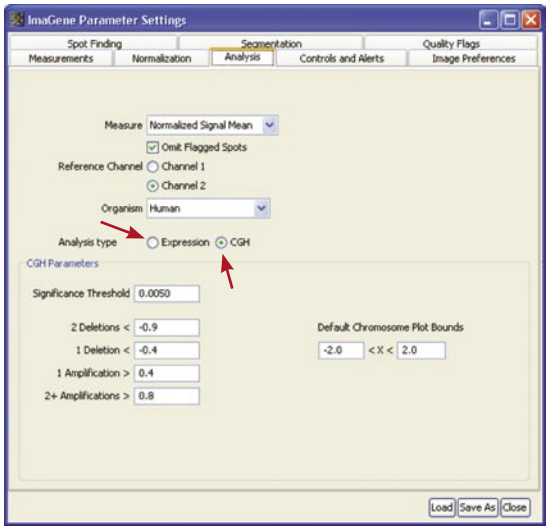
- Spot Finding & Grid Placement - patented and efficient algorithms automatically thread a grid through each data point, performing thousands of calculations per second ensuring optimal placement and alignment.
- Spot & Array-Level Quality Control – ImaGene 8.0 will automatically analyze every spot and the array itself to determine the quality of the array image or individual spots, minimizing the need for laborious manual inspection of tens of thousands of spots, allowing users to have confidence in the reported measurements.

Highest Quantification Accuracy

- Patented Automated Segmentation – proprietary algorithms and processes are used to automate a precise segmentation process, discriminating between signal, background and contamination, ensuring the highest quality experimental data. This unique feature can even salvage contaminated spots by automatically removing artifacts that statistically do not match the signal or background intensity profiles.

One-Button Batch Processing

- The optional batch-processing module enables rapid, completely hands-free processing of any number of images. This easy to use feature brings new efficiency to high-throughput environments where large numbers of arrays are processed each day. And, to keep check on workflow, an intuitive progress window shows you where you are along the way.



Integrated expression and aCGH analysis methods - *one click analysis selection*

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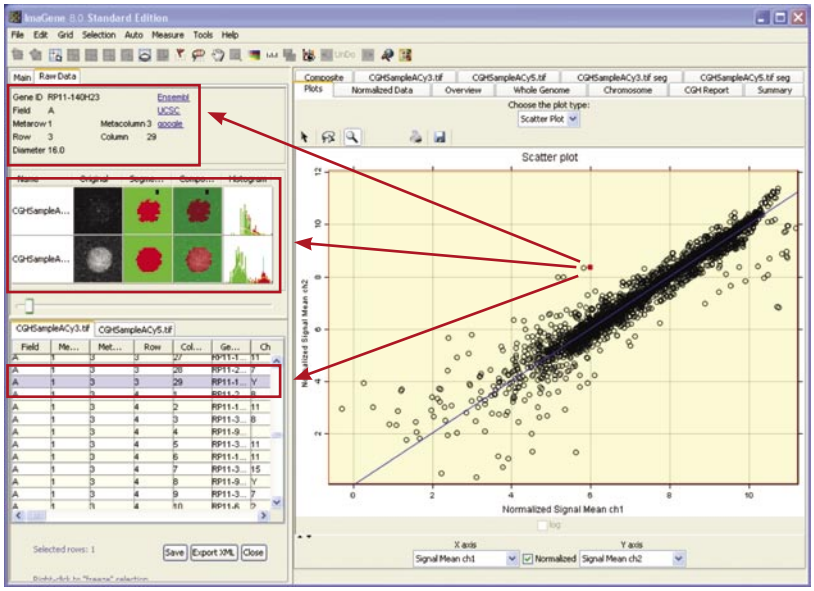
Elegant Interface and Navigation

- Easy to learn and use – ImaGene 8.0 continues a tradition of an intuitive design that is easy to learn to use and is similarly easy to navigate. With tabular formats and sliders, creating and managing settings is as simple as a click of a mouse.
- Interactive and integrated – with interactive and integrated tabular and graphical data views, ImaGene makes it is easy for you to see the correlations between images and related data with a wide variety of interactive plots (histogram, box, scatter, GenePie and M-A plots).

Integrated Analysis Modules

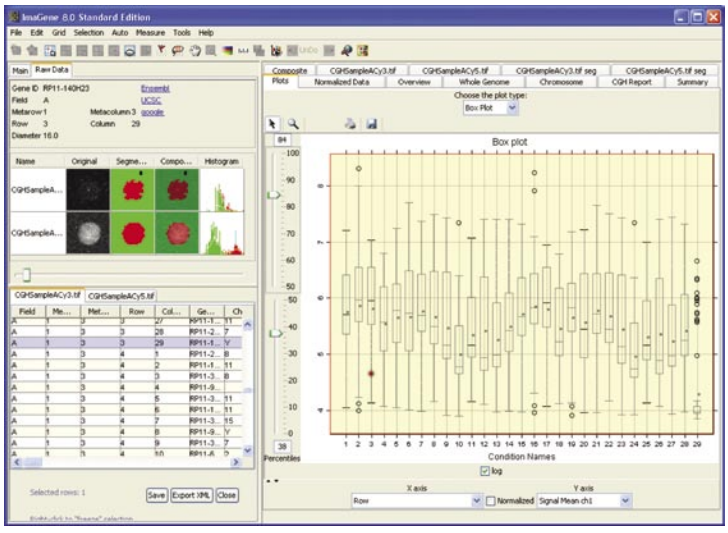
- Flexible options in ImaGene 8.0 can provide: multiple data normalization options including lowess on entire array, sub-grid or control spots; differential regulation analysis and visualization; direct integration with GeneSight-Lite for multiple array analysis; and statistical aCGH analysis and visualization.



Integrated Interactive Plots - *Select any spot to view related data*

System Compatibility

- ImaGene 8.0 is platform independent as it is available for Windows, Mac and Linux operating systems; is compatible with a broad variety of microarray types (staggered/orange packing, protein, aCGH, multi-sample, etc.) from a large number of manufacturers as well as home spotted arrays.



Box Plot - *Integrated and interactive percentile analysis*

Additional Features

- Highly flexible in providing automated features requiring limited user interaction and manual features for asserting more user control when needed
- Scanner independent - works with all scanners including Tecan, Agilent, GenePix (Axon), Perkin Elmer, Innopysis, and more
- Ready to use templates for many commercial arrays including Agilent 244K, 4x44K, 44K arrays

NEW in ImaGene 8.0

The new and improved features in ImaGene 8.0 offer substantial performance improvement and higher quality allowing you to get to the results even faster.

- Improved auto-grid placement algorithm performing robust grid placement on even very dense and complex arrays
- Support for multiple samples per array images such as Agilent's 4x44K array generating separate output files per field in the image
- Improved auto-segmentation algorithm that removes speckle noise
- Improved quantification processing time for largest arrays

Get Started Today Contact BioDiscovery today for an evaluation copy of ImaGene 8.0, to upgrade from your current ImaGene software, or for answers to your questions. Visit our web site at www.biodiscovery.com, email us at info@biodiscovery.com or call 310-414-8100.

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