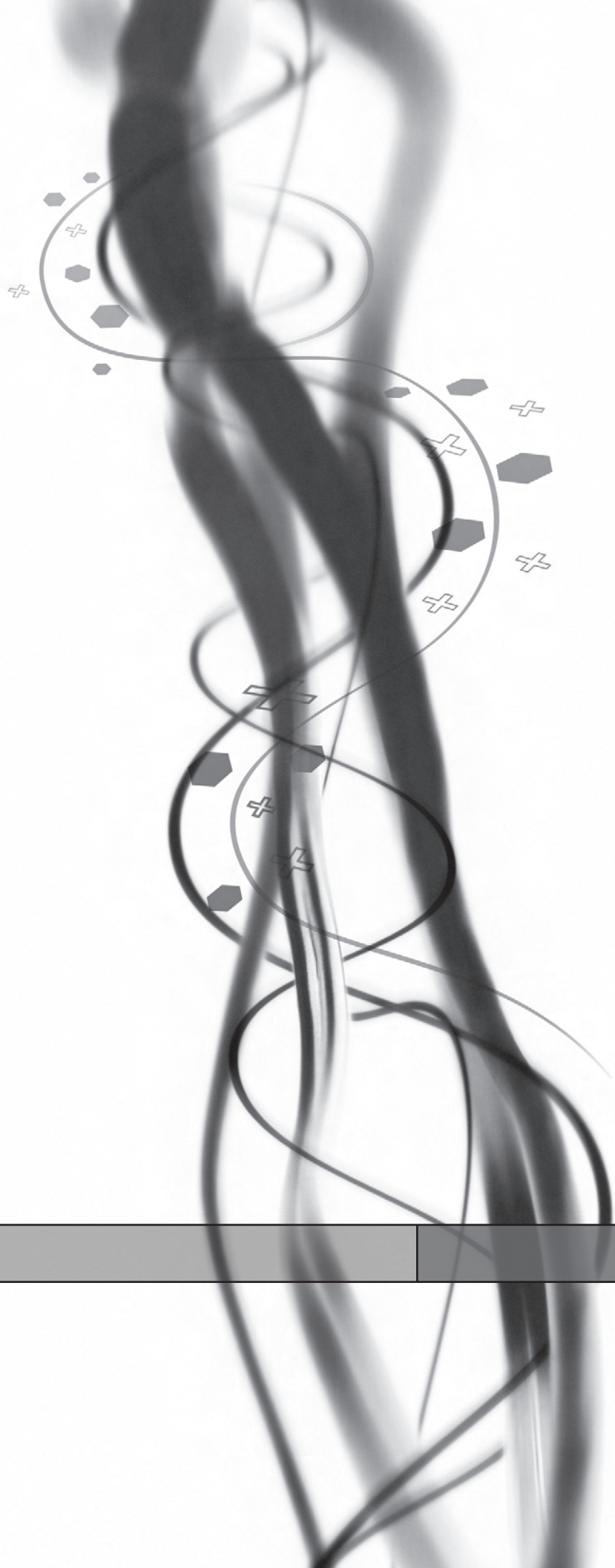


# S+

Insightful<sup>®</sup>



S+ARRAYANALYZER<sup>®</sup>

**+ Commercial Drug Development Requires Powerful Microarray Design and Analysis Tools**

Computational biologists, biostatisticians, and clinicians performing microarray experiments have more data than ever. However, more data does not mean higher precision. Scientists continuously face the prospect of false positives and negatives due to inefficient statistical design and analysis. To bring new products to market as quickly as

possible and reduce costs, scientists need powerful microarray analysis techniques and rigorous statistical microarray design and analysis tools. To support commercial drug discovery, these tools should be validated, easy to use, and make it simple to interpret and share results.

Figure 1. Examples of graphical quality control graphics available in S+ArrayAnalyzer.

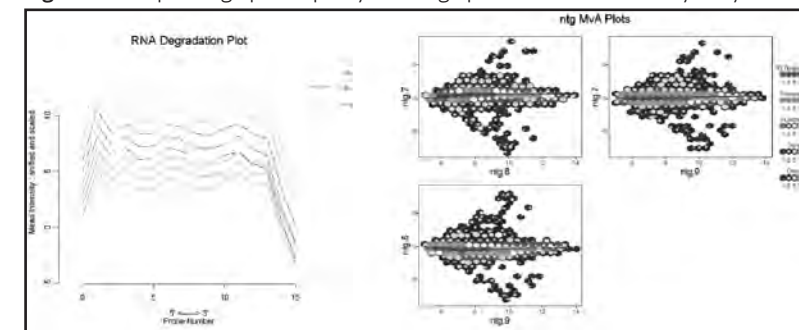
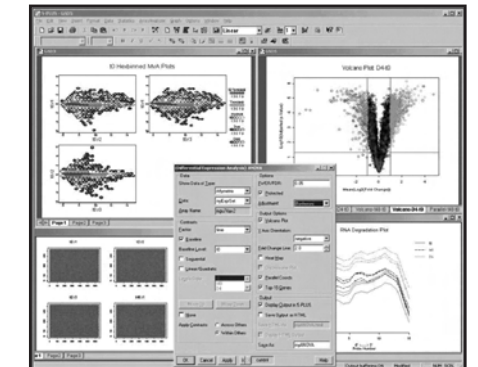


Figure 2. S+ArrayAnalyzer on Windows Desktop



# S+ArrayAnalyzer®

**+ Benefits**

S+ArrayAnalyzer is designed to help you

- + Predict Clinical Outcomes and Identify Biomarkers by Combining Gene Expression Data with Biostatistics
- + Improve Productivity through an Easy-to-Use GUI
- + Extend Analysis with New or Proprietary Techniques
- + Run more cost effective studies with reliable results.
- + Comply with FDA Guidances for Commercial Drug Discovery

**+ S+ArrayAnalyzer Applications**

- + Biomarker identification
- + Differential expression and functional genomics
- + Optimal target identification and validation
- + Safety and efficacy profiling

**+ S+ArrayAnalyzer® Improves Microarray Analysis Results**

S+ArrayAnalyzer® offers scientists a comprehensive, validated data analysis solution. A Windows® or Web-based graphical user interface (GUI) makes the solution easy to use, improving productivity. Using S+ArrayAnalyzer, scientists can accurately identify differentially expressed

genes, biomarkers, and targets. By reducing false positives, companies can lower expenses for developing compounds and bring new products to market faster.

**Rigorously Analyze Microarray Data to Quickly Identify Targets and Biomarkers**

S+ArrayAnalyzer provides comprehensive, rigorous statistical design and analysis of microarray experiments to help scientists identify differentially expressed genes, targets, and biomarkers. With S+ArrayAnalyzer's high degree of accuracy, scientists no longer waste time pursuing false positives; thus, companies can reduce expense in developing compounds and bring new products to market faster.

**Predict Clinical Outcomes and Identify Biomarkers by Combining Gene Expression Data with Biostatistics**

Because S+ArrayAnalyzer works within the S-PLUS® environment, scientists can combine microarray analysis from S+ArrayAnalyzer with biostatistics models from S-PLUS to predict clinical outcomes and identify biomarkers.

**Improve Productivity with an Easy-to-Use GUI**

S+ArrayAnalyzer takes advantage of a Windows user interface or a Web-based interface to simplify learning and use, enabling users to produce results quickly. Intuitive, graphical interfaces guide users through all steps necessary to import, analyze, and create reports on microarray data.

## Extend Analysis with New or Proprietary Techniques

Scientists and statisticians must often create and deploy their own analysis techniques to enhance proprietary research or standardize best practices across their organization. S+ArrayAnalyzer provides integration tools for proprietary and third-party microarray data sources and annotation databases, software (i.e., pathway analysis), and S-PLUS application programming interfaces (APIs) to deploy custom statistics and reports.

## FDA Compliance for Commercial Drug Discovery and Development

S+ArrayAnalyzer is designed to support commercial drug development applications. S-PLUS and Insightful Miner are developed with a compliant Software Development Life Cycle (SDLC) that has been accepted by multiple pharmaceutical companies. Further, S-PLUS and Insightful Miner may be readily validated in-house at client sites to meet FDA requirements for software used in drug discovery and development, including GxP and 21 CFR Part 11.

## Improve Microarray Analysis Results

S+ArrayAnalyzer provides access to microarray data from internal databases or file repositories as well as commercial sources such as Affymetrix, Agilent, and GenePix. Users can prepare their data using quality control, normalization, and probe-level analysis techniques. S+ArrayAnalyzer uses S-PLUS Graphlets® to present results as interactive tabular and graphical reports that simplify interpretation. Users can drill down within reports and graphs to proprietary or public databases, incorporating metadata to enhance the analysis and interpretation for genes of interest. Scientists can easily share reports across the Web even if their colleagues don't have S+ArrayAnalyzer.

+ For more information please visit [www.insightful.com](http://www.insightful.com) or email [info@insightful.com](mailto:info@insightful.com)



### Global Headquarters:

Tel: 206.283.8802, 800.569.0123 ext. 479

Fax: 206.283.8691

[info@insightful.com](mailto:info@insightful.com)

### Insightful Switzerland:

Tel: +41 61 717 9340

Fax: +41 61 717 9341

[info.ch@insightful.com](mailto:info.ch@insightful.com)

### About Insightful Corporation:

Insightful Corporation (NASDAQ: IFUL) is a leading provider of predictive analytics and reporting solutions that provide companies the *knowledge to act™*. Insightful products allow companies to perform sophisticated statistical data analysis and data mining, and to create high-quality graphics from numeric and text data. Insightful consulting services provide specialized expertise and proven processes for the design, development and deployment of customized solutions.

### Insightful UK:

Tel: +44 (0) 1256 339800

Fax: +44 (0) 1256 339839

[info.uk@insightful.com](mailto:info.uk@insightful.com)

### Insightful France:

Tel: +33 0 5 62 27 70 60

Fax: +33 0 5 62 27 70 61

[info.fr@insightful.com](mailto:info.fr@insightful.com)

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