Genedata Analyst

for Life Science R&D

Genedata Analyst™ is the premier software solution for the integration and interpretation of experimental data in life science R&D. It puts rigorous statistical algorithms, interactive data analysis tools, and intuitive visualization into the hands of researchers and biostatisticians alike. Built on a scalable client-server architecture with a rich set of APIs, Genedata Analyst provides a centrally managed, secure, and scalable data mining platform that can be easily integrated into existing research IT environments.
Data Analysis Challenges

- Statistical analysis drives innovative product development within various life science industries
- Biological experimental designs become more complex and data volumes grow rapidly
- Researchers require integration of valuable in-house data with public domain data
- Interdisciplinary teams of scientists and statisticians need a common communication platform
- Software budgets are continually under pressure
- Deployment in regulated environments requires data and results traceability

Implications

- Inefficient data analysis and management solutions create bottlenecks preventing successful product development
- Benefits of large data sets and rigorous statistical analysis are not utilized and invalidate scientific conclusions
- Lack of scalable software solutions significantly diminishes investments in experiments and technologies
- Data analysis is limited to a small number of experts yielding inefficient use of know-how and resources
- Pressure increases to consolidate applications and minimize support cost
- Absence of GxP compliance limits use of data for regulated applications

"It is critical that software be both powerful yet have a biologist-friendly interface. Genedata Analyst fulfills these requirements ... giving us the ability to identify relationships in datasets that might otherwise not be identified.”

Dr. Kathie-Anne Walters
Institute for Systems Biology
United States
Increased Efficiency

- Significantly reduced time and cost for data analysis and data management
- No limitations on data set size or complexity of experimental designs
- Simplifies data integration, independent of source or technology
- Maximizes the value of statistical analysis through integration of diverse data
- Enables collaboration within interdisciplinary teams of scientists and statisticians
- Integrated biological knowledge helps to bridge the gap between statistics and biology

Enterprise Solution

- Central server deployment and automatic client installation for reduced total cost of ownership
- Shared projects enable collaborative data analysis
- Supported APIs enable integration of in-house databases and reporting systems
- Centralized storage and management of data, including experimental meta information
- Seamless integration of in-house QC and statistics tools
- Server solution enables end-to-end traceability for GxP compliance

Beyond Software

- Rich statistical toolbox covers a wide range of data analysis requirements
- Highly scalable to support interactive data exploration of billions of data points
- Proprietary mapping technology enables integrated analysis across diverse data
- Graphical workflows for standardized and automated data processing
- Out-of-the-box support for many experimental technologies and applications
- Covers 95% of analysis requirements; public APIs address the remaining 5%
- Excellent support and training from scientific and technical experts with no hidden costs

Bar Charts - Interactive data visualization

K-means Analysis - Large variety of statistical tools

Networks - Comprehensive data interpretation
List of Activities - Complex analysis made simple

Linear Models - Intuitive visualization of statistical results

Boxplots - Easy data integration

Cluster Analysis - Identification of relevant clinical parameters