



# Genedata Selector®

## One Platform for all Genomic Data Management

Genedata Selector® is an enterprise software platform that organizes and manages all of a company's genomic content within a single secure environment. Selector provides streamlined processing and analysis capabilities for NGS data, enabling scientists to leverage complex relationships between biological entities.

The collaboration aspect of the software allows project members to communicate efficiently and provide results and project updates in real time. Genedata Selector is the software of choice for improving the efficiency of R&D and production processes for life science companies.



## Integration

Genedata Selector was developed as a single platform allowing for the analysis and management of all types of genomic data.

- 3 Analyze and manage raw sequencing data from any platform including Illumina, PacBio and Oxford Nanopore
- 3 Selector software agents routinely monitor databases like PubMed, RefSeq, and NCBI to automatically import pertinent updates
- 3 Selector APIs enable seamless integration with existing IT infrastructure to allow for the analysis of data in one secure platform

Genedata Selector allows users to easily integrate all of their genomic data into one platform, providing them with harmonized data and the confidence for quick decision making.

## Collaboration

Using modern browser-based technologies, Genedata Selector delivers an easy to use interface with powerful collaboration tools.

- 3 A project-centric design allows diverse team members to generate and share detailed views on genomic and analytical data
- 3 Community Annotation features allow users to easily associate their observations with specific content or genomic regions for precise collaboration
- 3 Users can send and receive notifications, providing everyone involved 1-click access to critical content

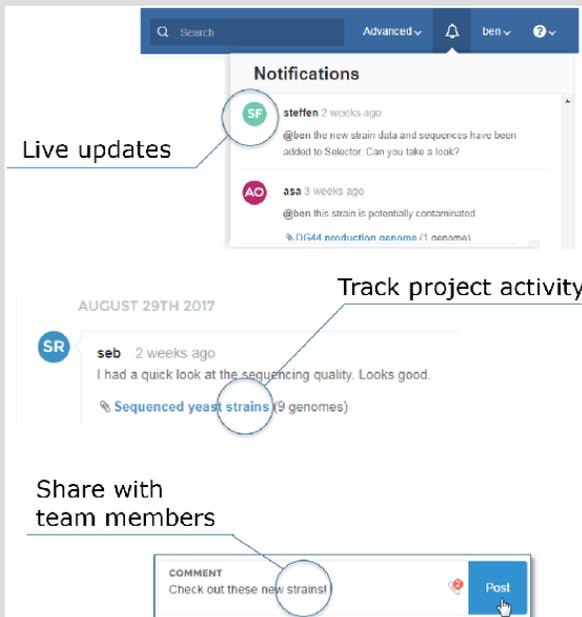
This collaboration and communication platform allows all members of a project team to work together and share information more easily than ever before.

## Efficiency

Genedata Selector allows scientists and bioinformaticians easy access to harmonized data to improve the efficiency of R&D and production processes.

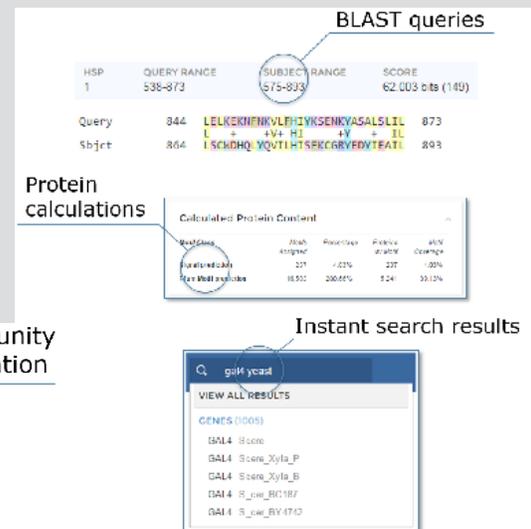
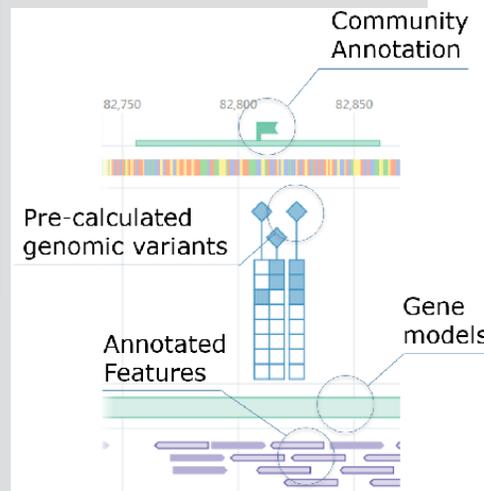
- 3 From nucleotides to phenotypes; process, analyze, and manage all genomic data from any organism under one secure platform
- 3 Easily transition among layers of data analysis (e.g. raw sequence data, gene annotations, or metabolic pathways)
- 3 Streamline access by cross-referencing over different biological entities, synonyms and identifiers

With an easy to use interface, Genedata Selector helps empower researchers by providing them with all the tools needed for efficient genomic data management and analysis.



(FIG. 2) Visualize

- 3 Compare genomic variants directly in web browser
- 3 Bookmark and share views of genomic content with colleagues
- 3 Community annotations allows users to flag certain regions of the genome for follow up



(FIG. 3) Analyze

- 3 BLAST feature makes it easy to compare sequences against database content
- 3 Sophisticated search capabilities are quick and easy to use
- 3 Users can browse available genomic knowledge related to a specific region of interest

(FIG. 1) Collaborate

- 3 Central management of all project content
- 3 One-click access to content to easily communicate ideas with project members
- 3 Interactive visualizations can be sent to collaborators instead of static images



## Automation

A workflow-based processing engine allows scientists to rapidly process and analyze sequencing data independent of the technology or instrument used.

- 3 Raw DNA-seq and RNA-seq data can be processed, analyzed, and reported with the click of a button
- 3 Sequence comparisons can be efficiently calculated across proteomes, assembled genomes and microbiomes
- 3 Tailored analysis pipelines can be created for gene editing (e.g. CRISPR), targeted sequencing, and integration site determination

Automated workflows mean better reproducibility and traceability while all system transactions are maintained with timestamps to allow for 21CFR part 11 compliance in a GMP environment.

## Flexibility

Designed with an open architecture, Genedata Selector provides multi-tiered options that offer the full spectrum of infrastructure support from on-site to cloud based solutions.

- 3 Fully hosted solutions allow for quick start-up without the need for large hardware installations
- 3 Managed solutions offer the most flexibility allowing for a combination of hosted services and local installations
- 3 Local solutions provide the most independence and the most security as the entire system is managed locally at the customer site

Genedata Selector can provide tailored IT solutions to fit any company's needs.

## Knowledge

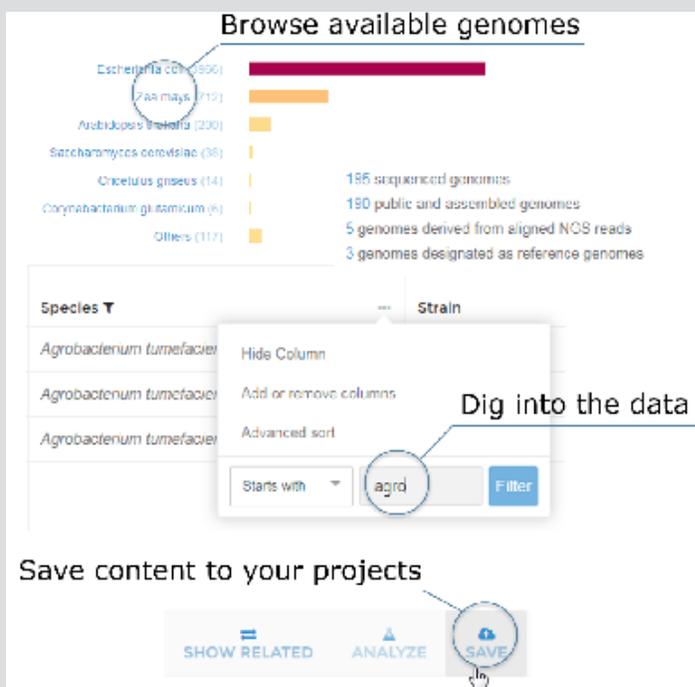
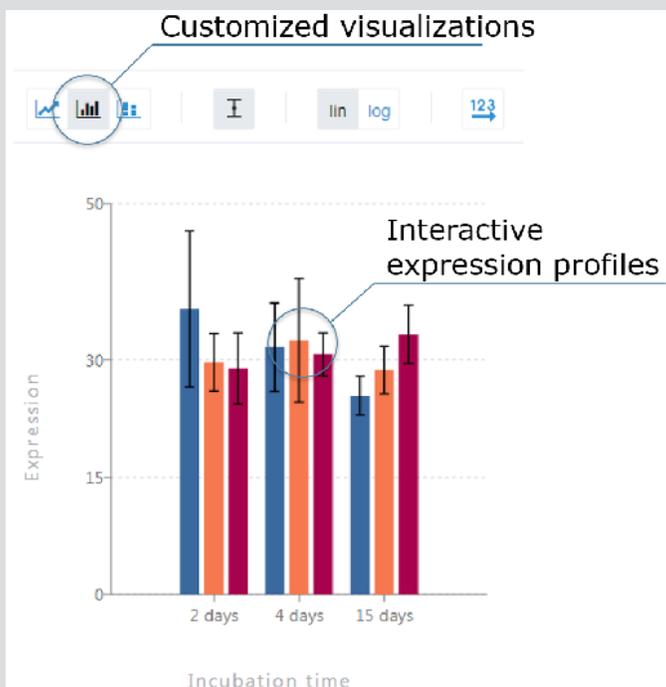
Genedata Selector goes beyond genomic analysis to provide a broader picture of how organisms interact including bio-films and microbiome investigations.

- 3 Store, query, and analyze genomic data from both public and proprietary genomes
- 3 Full access to comprehensive knowledge base and dedicated content packages including publicly annotated genomes and refined gene models
- 3 Strengthen decision making with a deeper understanding of genomic data

Combine enterprise software with scientific and consulting services for the most robust and holistic view of genomic data.

(FIG. 4) Compare

- 3 Easily view and compare gene expression profiles
- 3 Create custom views and charts
- 3 Save and share interactive results with collaborators



(FIG. 5) Explore

- 3 Browse available genomes and related content
- 3 Drill-down into lists by providing custom search criteria
- 3 Organize all content directly in web browser

## Genedata Selector

Genedata Selector® is a genome data management and analysis software platform that transforms raw sequencing data into tools for cell line design and selection, biosafety assessment, metagenomics, and genome editing. Automated and intuitive software combined with scientific consulting and professional services provide a full solution for increasing efficiency and reducing costs in R&D and production.

## Experienced Partner

With years of experience supporting customers in the biopharma, industrial biotech, agribusiness and consumer products industries, Genedata Selector is an ideal collaboration partner for companies wanting to improve their efficiencies and reduce costs in R&D and production. Genedata Selector also offers extensive opportunities for custom or co-developed software systems to support your current and future needs.

## Services and Support

Genedata's professional services consist of a broad spectrum ranging from custom software development, strategic co-development projects, and data loading/integration to hosting and IT services. Genedata scientific consulting delivers a full portfolio of analysis and bioinformatics services, e.g. proprietary genome annotation, cellular signaling network reconstructions for proprietary strains, and statistical expression analysis reports (e.g. of microarray or RNAseq data).

## Next Steps

To find out more about Genedata Selector, please visit [www.genedata.com/selector](http://www.genedata.com/selector)

For a conversation about your NGS data analysis needs or to schedule a live demonstration, please contact us at [selector@genedata.com](mailto:selector@genedata.com).



Genedata Selector® is part of the Genedata portfolio of advanced software solutions that serve the evolving needs of drug discovery, industrial biotechnology, and other life sciences.

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