



genomatique

The World's First Bioinformatics DataBank in an Appliance



- The *entire collection* of the world's major bioinformatics repositories in a local databank for your laboratory
- Integrated using the leading data format in today's pharmaceutical companies - XML
- The convenience and ease of an Appliance
- Sophisticated graphical query and search
- Standards based data-representation and schemas
- Ideal for research, training and education

The Genomatique

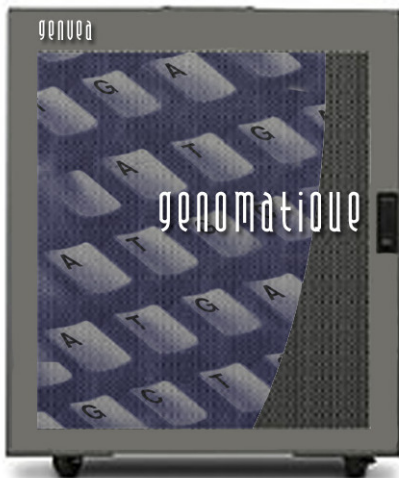
Technical Specifications

Data Bank Contents

- Complete Genbank, Release 149.0: NIH genetic sequence database, an annotated collection of all publicly available DNA sequences. This release contains 46,947,388 loci, 51,674,486,881 bases, from 46,947,388 reported sequences.
- Complete human, plant, animal and microbial genome data
- Complete Swiss-prot, Release 48.4, containing 197,228 entries: a curated protein sequence database with a high level of annotation, including description of the function of a protein, its domains structure, post-translational modifications, variants, quaternary structure, similarities to other proteins, associated diseases, etc.
- Complete TrEMBL, Release 31.4, containing 2,342,938 entries: computer-annotated protein sequences, containing all the translations of EMBL nucleotide sequence entries not yet integrated in Swiss-Prot
- Complete Protein Data Bank: PDB is the largest repository for the processing & distribution of 3-D biological macromolecular structure data, currently hosting over 33,000 validated structures.
- Complete InterPro, Release 11.0, containing 12,294 entries: InterPro is a database of protein families, domains and functional sites in which identifiable features found in known proteins can be applied to unknown protein sequences.

Tools and Features

- Advanced XML-data integration engine – Xmeld, combined with graphical ease of use
- Standards based query and search tools
- Powerful, graphical query interface to correlate across Genome, Protein and Structure data
- Construct complex (“impossible”) queries using graphical tools
- Simplified Form based query tools for scientists
- Consistent, XML-representation of all data



Format specifications

- Genbank specification from National Center for Biotechnology Information (NCBI), USA
- Swiss-prot and TrEMBL XML specifications from European Bioinformatics Institute (EBI)
- PDBML/XML specification from Research Collaboratory for Structural Bioinformatics (RCSB)
- InterPro XML schema from European Bioinformatics Institute (EBI)
- Configurable XML formats for data export

Additional System Features

- Genvea Biosciences Reference Architecture for optimal data and computing performance
- W3C XQuery language for database query

Appliance Features

- Custom appliance with tightly embedded data integration engine
- Data bank capacity for managing updates to repositories for one year

Support and Services

- Online documentation
- System monitoring, flexible real-time notification
- Proactive system management for increased system availability

Training (Optional)

- On-site one-time training of scientific staff and IT support personnel

Functional consultancy (Optional)

- On-site domain consultancy on integrating further databases and for integrating Genomatique into your research workflows

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