

SEQNext

Next Generation sequencing

PD Dr. med. Peter Bauer, M.D.;
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„An important reason for our decision to use the software SEQUENCE Pilot has been the high-level of direct and competent customer service. JSI medical systems are not only experts in software development, but also in molecular genetics, realizing customer suggestions in a highly qualified and user-friendly way. Frequent product updates and continuous development guarantee an up-to-date software that totally fits to our needs.”

Supported Sequencers

- Roche (454)
- Illumina (Solexa)
- ABI SOLID
- Ion Torrent

Service

High availability and short response time are guaranteed by our competent support team.

A detailed consultation in advance ensures purchasing the license model and modules that perfectly fit to your needs

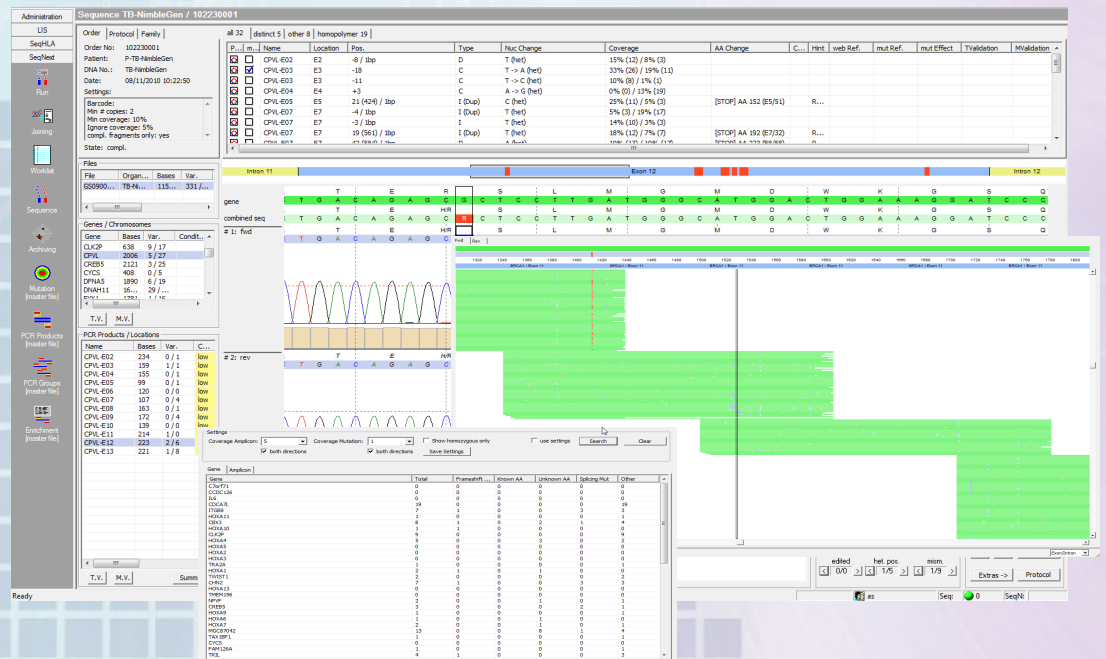
On-site trainings, seminars and online-trainings complete our service.

Established more than 10 years ago in the Black Forest area in Germany **JSI medical systems** with its subsidiary in the United States of America, is ranked among the leading providers of software for sequencing data analysis. **JSI medical systems** is offering sophisticated bio-informatic software solutions covering a wide field of sequencing techniques, such as Capillary Sequencing, Affymetrix Chip Resequencing, Next Generation Sequencing, MLPA Analysis and HLA Sequencing Based Typing. All products were and will be developed in close cooperation with our customers, characterized by outstanding user-friendliness, efficiency and optimal integration in the daily work routine.

The continuous implementation and improvement of new and existing sequencing techniques during the past few years required and still requires high adaptability and consequent acting of software suppliers. Herein also lies the strength of **JSI medical systems**, striving for the goal of meeting the customer's requirements by providing convenient software solutions promptly.

Highlights of SEQUENCE Pilot - module SeqNext

SeqNext is a sophisticated software module for the analysis of Next Generation Sequencing data assisting the daily work in molecular biology labs by a variety of functions and methods. The **SeqNext** module totally fits into the **SEQUENCE Pilot** interface, which simplifies the changeover to the new platform for users of other **SEQUENCE Pilot** modules.



SeqNext at a glance:

- ✓ Covering the whole spectrum of Next Generation Sequencing, **SeqNext** is fully compatible to the platforms from Ion Torrent, SOLID, SOLEXA and 454
- ✓ Regions of interest can be defined that are to be analyzed to get a clear look on the results that matter without any unessential overhead.
- ✓ Reliable detection of SNPs, deletions, insertions and duplications of any length. Up-to-date algorithms and analysis methods guarantee highest detection rates.
- ✓ User defined thresholds for mosaic detection permit a differentiated analysis with minimal false-positives.
- ✓ All detected variations / mutations are well-arranged in one table view, explicitly classified and completed by various information.
- ✓ Low coverage warnings can be specified freely providing the security to be aware of misinterpretations.
- ✓ Threshold to define minimum absolute coverage for mutations.
- ✓ Detection of Copy Number Variations like large deletions or insertions based on fragment coverage.
- ✓ Analysis of large patient pools, summary view of patients and patient details.
- ✓ Easy navigation within the sequencing plot, just move to points of interest by a single click.
- ✓ Entirely integrates into the look-and-feel of **SEQUENCE Pilot**.
- ✓ Reliably maps reads of commonly used length on all supported platforms.
- ✓ Support of Chip-based enrichment with clear display of mutations in tabular view.
- ✓ Comment your analysis by sequence annotations.
- ✓ Secure user management.
- ✓ Technical and medical validation, secured by the user management.
- ✓ An internal mutation database for archiving results provides access on information to fall back on in future analysis.
- ✓ Clearly structured analysis data management and archiving securely keeping the results of your work.
- ✓ Medical reports for individual patients providing detailed information for further diagnostics.
- ✓ Flexible licensing scheme, single client or network installations with various options.
- ✓ Efficient use of spare computing resources by parallel data analysis on multiple computers.
- ✓ Fast algorithms for high performance computing, even on outdated hardware.

Why our customers choose our products

- x **JSI** realizes customer preferences without extra charge to provide software solutions that perfectly cover the specific needs.
- x Frequent updates guarantee a short reaction on customer needs and new technologies.
- x A competent and flexible customer service provides a highly available support exceeding a simple product guide.
- x Qualified and customized customer trainings on-site or via Internet not only assist the first steps but also accompany and enrich the further use of the software.

Licensing Schemes

Single User

SEQUENCE Pilot – SeqNext is installed on single computer, the license is bound to the hardware. Multiple user (profiles) at this computer can log into **SEQUENCE Pilot**, using their **SEQUENCE Pilot** profile.

Client-Server Installation

SEQUENCE Pilot – SeqNext is installed on a server computer only, or a workstation that acts as a **SeqNext** server, and the clients connect to this installation without having anything installed. This principle simplifies the maintenance and update-management of the software. The client licenses are available in bundles of 3, 5 or unlimited copies.

System Requirements

- Linux 32 Bit (Kernel 2.4 or higher) (server license only)
- Windows 2000 / XP (32 Bit only) / Vista / 7 / 2003 Server / 2008 Server, 32 Bit and 64 Bit design
- For processing files exceeding 4 GB a 64 Bit operating system is recommended (server license only)
- 4 GB RAM min.
- Dual core processor with 2,5 GHz/core min.
- 60 GB free disk space
- Network connectivity, 100 MBit/s min.

If you would like to try **SEQUENCE Pilot – SeqNext**, please contact our sales team to get a free trial license.