CYGNUS

CYGNUS X1
Bioinformatics Workstation



SEQUENCING THE FUTURE

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CYGNUS

Overview

CYGNUS X1 Bioinformatics Workstation is a tower-style dedicated server purpose-built for bioinformatics analysis. With deeply integrated, self-developed computing and storage engines, the CYGNUS® X1 delivers a one-stop solution that eliminates key pain points—including lengthy turnaround times, cumbersome deployment, complex operations, and data security concerns.

The CYGNUS X1 provides comprehensive coverage across four core application areas—pathogen research, genetics, reproductive health, and pharmacogenomics. It comes equipped with a suite of standardized bioinformatics analysis plugins, is compatible with mainstream sequencing platforms, and supports offline deployment to balance data security with operational flexibility. As a secure, efficient, and user-friendly end-to-end bioinformatics solution, the CYGNUS X1 Bioinformatics Workstationwill driving high-quality advances in life sciences research.



Core Advantages

Plugin list

Ordering Information

Service Information

Core Advantages

VERSATILE

Unlock multiple applications via integrated bioinformatics software

One-stop, plugin-based bioinformatics workflows—covering QC, assembly, and variant calling. Designed for diverse applications, it integrates premier databases to precisely annotate over 20,000 human genes and 38,000 microbes.

DATA SECURE

Secure Offline Data Storage

Runs seamlessly in strictly offline environments to shield sensitive data. It delivers compliant, fully controlled local analysis that eliminates external risks and elevates your high-quality breakthroughs in scientific research.

READY-TO-USE

Intuitive Interface that Eliminates Complex Bioinformatics Barriers

Dual-Mode Operation：Automated Run +Custom Workflow

- Automated Run

Paired with Cygnus sequencer platform, data automatically triggers analysis upon sequencing completion.

- Custom Workflow

Supports data import and manual task creation with customizable parameters.





STATUS MONITORING

- Real-time status monitoring with instant alerts to prevent storage overflow



HIGHLY SCALABLE

Comprehensive NGS platform support with versatile expansion

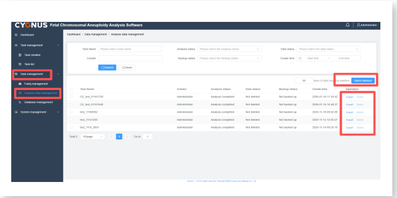
- Integrated Data & Plugin Management

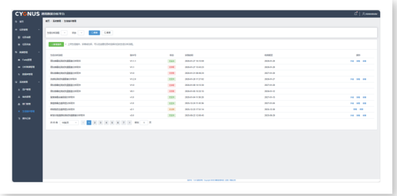
Data Management

Supports seamless data operations: upload, download, back up, and delete with ease.

Plugin MAnagement

Provides full lifecycle control: install, uninstall, configure, and upgrade pipelines on demand.





CYGNUS X1 Plugin list

Category	List
Pathogens	1. Pathogen Metagenomic Detection Kit Data Analysis Software 2.Genetic testing for Target Next- generation Sequencing for Respiratory Infection Pathogen Kit Data Analysis Software 3. Influenza Virus Whole-Genome Detection Kit Data Analysis Software 4. SARS-CoV-2 Whole-Genome Detection Kit Data Analysis Software 5. Chikungunya Virus Whole-Genome Detection Kit Data Analysis Software 6. Mpox Virus Whole-Genome Detection Kit Data Analysis Software 7. Mycobacterium Tuberculosis Whole-Genome Detection Kit Data Analysis Software 8. Mycobacterial Identification and Antimicrobial Resistance (AMR) Detection Kit Data Analysis Software 9. Norovirus Whole-Genome Detection Kit Data Analysis Software 10. Dengue Virus Whole-Genome Detection Kit Data Analysis Software 11. Rotavirus Virus Whole-Genome Detection Kit Data Analysis Software
Genetics	1. Genetic testing and individualized drug use evaluation for genetic early-onset coronary heart disease risk Kit Data Analysis Software 2. Genetic Testing for Cardiocerebral Thrombosis and Medication1Evaluation Kit Data Analysis Software 3. Genetic Testing for The Maturity Onset Diabetes of The Young(MODY) Kit Data Analysis Software 4. Genetic Screening and Detection of Newborn and Pediatric Genetic Disease Kit Data Analysis Software 5. Genetic Screening and Detection of Expanded Carrier Screening with Monogenic Diseases Kit Data Analysis Software 6. Whole exome sequencing Kit Data Analysis Software 7. Medical Whole exome sequencing Analysis Kit Data Analysis Software 8. Genetic Testing for Hereditary cancer Sequencing Kit Data Analysis Software
Reproduction	1. Fetal Chromosomal Aneuploidy Detection Data Analysis Software 2. Fetal Chromosomal Aneuploidy and Microdeletions/ Microduplications Detection Data Analysis Software 3. Preimplantation genetic testing for Aneuploidies(PGT-A) Data Analysis Software 4.Copy number variation Detection Kit Data Analysis Software
Pharmacogenomics	1. Pharmacogenomic Testing for Antipsychotic and Antineurological medications Data Analysis Software 2. Pharmacogenomic Testing for Cardiovas cular Disease medications Data Analysis Software 3. Pharmacogenomic Testing for Diabetes, Anti-Hypertension, Uric Pharmacogenomic Data Analysis Software 4. Genetic Testing of Medication for Children's Neurological Diseases Kit Data Analysis Software

Reagent Kits







Ordering Information

Order now to power up your genomics research.

- System specifications

	CYGNUS X1 Standard	CYGNUS X1 Pro
Specs	CPU：24C 48T Memory：128G ~256G HDD >=16T~32T	CPU：64C 128T Memory：256G~640G HDD >=32T
Supported Plugins	1. Pathogens-all 2. Genetics-part 3. Reproduction-all 4. Pharmacogenomics-all	All plugin
Advantages	Cost-effective	Performance-Driven
Cat. No.	G-214-012-101	G-214-013-101

- Working environment

Temperature
15°C-25°C

Relative humidity
20%RH-80%RH

Power Requirements
220V±10V, 50/60Hz

Service Information

Professional installation, environment optimization, and performance verification.

Rapid, multi-channel technical support (phone, email, online portal) for software operation and data analysis.

Onsite operation training and routine maintenance to guarantee a rapid onboarding experience.

Regularly updated authoritative databases to ensure data precision.