

freezerworks by dataworks development

freezerworks by dataworks development is a comprehensive laboratory information management system (LIMS) designed to optimize sample tracking and data management in various scientific and medical fields. Developed by Dataworks Development, this software solution addresses the critical needs of biobanks, research laboratories, and clinical facilities by providing robust tools for inventory management, workflow automation, and regulatory compliance. The platform integrates seamlessly with existing laboratory processes, ensuring accurate sample storage, retrieval, and documentation. This article explores the key features, benefits, and applications of freezerworks by dataworks development, highlighting its role in enhancing operational efficiency and data integrity. Additionally, it discusses the system's scalability, user-friendly interface, and support for regulatory standards, making it an indispensable tool for laboratory professionals. The following sections provide a detailed overview, implementation insights, and best practices for maximizing the value of freezerworks by dataworks development.

- Overview of Freezerworks by Dataworks Development
- Key Features and Functionalities
- Benefits of Implementing Freezerworks
- Applications Across Industries
- Integration and Compatibility
- Regulatory Compliance and Security
- Implementation and User Support

Overview of Freezerworks by Dataworks Development

Freezerworks by Dataworks Development is a specialized laboratory information management system tailored to meet the demanding requirements of sample management in research and clinical settings. This software offers a centralized platform where laboratories can efficiently track, organize, and manage biological samples and associated data. Designed to reduce errors and improve data accessibility, Freezerworks supports a wide range of sample types and storage conditions, including ultra-low temperature freezers, liquid nitrogen tanks, and ambient storage. The system's architecture prioritizes scalability, accommodating laboratories of various sizes from

small research groups to large institutional biobanks.

History and Evolution

Dataworks Development launched Freezerworks with the goal of addressing the complexities of laboratory sample management. Over time, the software has evolved through continuous updates and enhancements, incorporating user feedback and technological advancements. This evolution has resulted in a mature platform that now includes features such as barcode scanning, audit trails, and customizable reporting. The commitment to innovation ensures that Freezerworks remains relevant in an ever-changing regulatory and technological landscape.

Core Components

The core components of Freezerworks include sample inventory management, user access controls, data reporting, and integration capabilities. These components work collaboratively to provide a cohesive user experience that streamlines the entire lifecycle of sample handling. The system's database architecture supports complex queries and data analytics, empowering laboratories to make informed decisions based on accurate sample data.

Key Features and Functionalities

Freezerworks by Dataworks Development is packed with features that facilitate efficient laboratory management and data integrity. Its functionalities are designed to automate routine tasks, minimize human error, and provide comprehensive oversight of sample inventories.

Sample Tracking and Inventory Management

The software offers detailed tracking of samples, including location, status, and chain of custody. Users can assign barcodes to samples and storage units, enabling rapid scanning and retrieval. The inventory management system supports hierarchical storage models, such as freezers, racks, boxes, and individual sample positions, providing granular control over sample organization.

Customizable Workflows and Automation

Laboratories can configure Freezerworks to match their specific workflows, automating processes such as sample intake, freezing, thawing, and disposal. Automation reduces manual entry, accelerates processing times, and ensures consistency across operations. Alerts and notifications can be set up to

monitor sample conditions and inventory thresholds, facilitating proactive management.

Reporting and Data Analytics

Freezerworks includes robust reporting tools that enable users to generate detailed reports on sample usage, inventory status, and audit logs. The analytics capabilities help identify trends, optimize storage utilization, and support research documentation requirements. Reports can be customized and exported in multiple formats for regulatory submissions or internal review.

Benefits of Implementing Freezerworks

Utilizing freezerworks by dataworks development offers numerous advantages that enhance laboratory efficiency, accuracy, and compliance. These benefits translate into improved operational workflows and better resource management.

Improved Sample Integrity

Through precise tracking and controlled access, Freezerworks minimizes the risk of sample misplacement or contamination. Barcode scanning and audit trails ensure that every sample's history is documented, safeguarding research validity and clinical reliability.

Enhanced Operational Efficiency

Automation of routine tasks and streamlined inventory management reduce the workload on laboratory staff, allowing them to focus on critical scientific activities. The system's intuitive interface accelerates training and daily operations, leading to faster sample processing and retrieval.

Regulatory Compliance Support

Freezerworks supports compliance with key regulatory standards such as CLIA, HIPAA, and FDA requirements. The software's detailed record-keeping and secure data handling help laboratories meet audit and inspection criteria, reducing compliance risks.

Scalability and Flexibility

The platform's scalable design accommodates laboratory growth and evolving operational needs. Customizable workflows and modular features ensure that

Freezerworks adapts to diverse laboratory environments and project scopes.

Applications Across Industries

Freezerworks by Dataworks Development serves a broad spectrum of industries that require meticulous sample management and data control. Its versatility makes it suitable for various scientific disciplines and organizational types.

Biobanking and Biomedical Research

In biobanking, maintaining sample provenance and storage conditions is critical. Freezerworks enables biobanks to catalog vast collections of biological specimens, ensuring optimal storage and traceability for research and clinical studies.

Pharmaceutical and Biotechnology Laboratories

Pharmaceutical companies utilize Freezerworks to manage compound libraries, clinical trial samples, and quality control materials. The system supports stringent regulatory requirements and enhances data integrity in drug development processes.

Academic and Government Research Facilities

Academic laboratories and government agencies benefit from Freezerworks' ability to handle complex research projects involving multiple sample types and collaborators. The software facilitates data sharing while maintaining security and compliance.

Integration and Compatibility

Freezerworks by Dataworks Development is designed for seamless integration with existing laboratory information systems (LIS), electronic lab notebooks (ELN), and other data management tools. This interoperability enhances workflow continuity and data consistency across platforms.

Hardware and Software Compatibility

The software supports barcode scanners, label printers, and other laboratory hardware, allowing for smooth hardware-software interaction. It is compatible with various operating systems and database management systems, offering deployment flexibility.

API and Data Exchange

Freezerworks provides application programming interfaces (APIs) and data export/import functionalities that facilitate communication with external systems. This capability enables automation of data transfer, reducing manual data entry and errors.

Regulatory Compliance and Security

Maintaining regulatory compliance and data security is paramount in laboratory environments. Freezerworks by Dataworks Development incorporates features that protect sensitive information and support regulatory adherence.

Data Security Measures

The system employs role-based access controls, encryption, and secure user authentication to safeguard data. Regular backups and audit trails ensure data integrity and availability in case of system failures or security breaches.

Compliance with Industry Standards

Freezerworks is engineered to comply with industry standards such as 21 CFR Part 11, HIPAA, and GLP. These compliance features assist laboratories in meeting documentation and validation requirements mandated by regulatory bodies.

Implementation and User Support

Successful deployment of freezerworks by dataworks development involves careful planning, training, and ongoing support. Dataworks Development provides comprehensive resources to facilitate smooth implementation and maximize software utilization.

Installation and Configuration

The installation process can be customized to fit the laboratory's infrastructure, whether on-premises or cloud-based. Configuration options allow tailoring the software to specific workflows and operational needs.

Training and Customer Support

Dataworks Development offers extensive training programs, including webinars, documentation, and hands-on sessions to ensure users are proficient with the system. Dedicated support teams provide technical assistance and troubleshooting to maintain uninterrupted laboratory operations.

Continuous Updates and Improvements

Regular software updates introduce new features, security patches, and performance enhancements. This ongoing development ensures that Freezerworks remains a cutting-edge solution aligned with the latest technological and regulatory trends.

- Centralized sample tracking and inventory management
- Customizable workflows and automation features
- Robust reporting and data analytics tools
- Compliance with regulatory standards including HIPAA and FDA
- Integration capabilities with laboratory hardware and software
- Scalable architecture suitable for various laboratory sizes
- Comprehensive user training and dedicated customer support

Frequently Asked Questions

What is Freezerworks by Dataworks Development?

Freezerworks by Dataworks Development is a software solution designed for managing laboratory inventory, sample tracking, and biorepository management. It helps organizations efficiently track and organize frozen samples and related data.

What are the key features of Freezerworks?

Key features of Freezerworks include sample tracking, barcode labeling, inventory management, audit trails, reporting tools, customizable fields, freezer map visualization, and integration capabilities with other lab systems.

Is Freezerworks suitable for clinical and research laboratories?

Yes, Freezerworks is widely used by both clinical and research laboratories for biobanking and sample management due to its robust tracking features and compliance with regulatory standards.

Can Freezerworks integrate with other laboratory information management systems (LIMS)?

Freezerworks offers integration options and APIs that allow it to work alongside other LIMS and electronic data management systems to provide seamless data exchange and workflow automation.

Does Freezerworks support barcode scanning for sample management?

Yes, Freezerworks supports barcode scanning to improve accuracy and efficiency in sample tracking, allowing users to quickly locate and update sample information.

What kind of customer support does Dataworks Development provide for Freezerworks users?

Dataworks Development provides comprehensive customer support for Freezerworks users, including technical assistance, training resources, software updates, and personalized consulting services to optimize laboratory workflows.

Additional Resources

1. Freezerworks Essentials: A Comprehensive Guide to Sample Management

This book serves as an in-depth introduction to Freezerworks software, providing users with step-by-step instructions on managing biological samples efficiently. It covers key features such as inventory tracking, barcoding, and data reporting. Ideal for new users and laboratory managers seeking to optimize their sample storage processes.

2. Mastering Freezerworks: Advanced Techniques for Data Management

Designed for experienced users, this title delves into the advanced functionalities of Freezerworks. Readers will learn how to customize workflows, automate routine tasks, and integrate Freezerworks with other laboratory information systems. The book also explores troubleshooting tips and best practices for maintaining data integrity.

3. Freezerworks Integration: Connecting Your Lab Systems Seamlessly

This book focuses on the technical aspects of integrating Freezerworks with

various laboratory instruments and software platforms. It explains API usage, data synchronization, and interoperability challenges. Laboratory IT professionals and system administrators will find valuable insights to enhance their lab's digital ecosystem.

4. Data Security and Compliance in Freezerworks

A critical resource for ensuring that sample data managed in Freezerworks meets industry standards and regulatory requirements. The book discusses security protocols, user access controls, audit trails, and compliance with HIPAA, GDPR, and other regulations. It is essential reading for compliance officers and lab managers.

5. Freezerworks for Biobanking: Best Practices and Protocols

Targeted at biobank managers, this title outlines how to leverage Freezerworks for efficient biobanking operations. Topics include sample tracking, donor information management, storage optimization, and data sharing. It also provides case studies demonstrating successful biobank implementations.

6. Custom Reporting and Analytics in Freezerworks

This guide teaches users how to create tailored reports and analyze sample data within Freezerworks. It covers report design, data visualization techniques, and exporting results for presentation or further analysis. Researchers and lab managers will benefit from enhanced data-driven decision-making skills.

7. Optimizing Laboratory Inventory with Freezerworks

Focusing on inventory management, this book explains how Freezerworks can streamline tracking of reagents, consumables, and equipment. Readers will learn inventory control strategies, reorder alerts, and asset management features. It is a valuable tool for laboratory supervisors aiming to reduce waste and improve efficiency.

8. Training and Onboarding New Users to Freezerworks

This practical manual provides best practices for training laboratory staff and new users on Freezerworks software. It includes lesson plans, hands-on exercises, and troubleshooting tips to ensure smooth user adoption. Training coordinators and lab managers will find it useful for building competent teams.

9. Future Trends in Sample Management: Innovations with Freezerworks

Exploring the evolving landscape of sample management, this book highlights upcoming features and technological advancements in Freezerworks. Topics include AI integration, cloud-based solutions, and mobile access enhancements. It offers a forward-looking perspective for labs preparing to adopt next-generation sample management tools.

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freezerworks by dataworks development: Biobanking of Human Biospecimens Pierre Hainaut, Jim Vaught, Kurt Zatloukal, Markus Pasterk, 2021-08-25 Over the past 25 years, biobanks of human specimens have become a cornerstone for research on human health and have empowered the “omics” revolution that characterizes biomedical science in the XXIst Century. Today, biobanking of human specimens is a critical component of the interface between clinical practice and translational research, supporting the discovery and validation of new biomarkers of disease etiology, risk, early detection, diagnosis, prognosis, prediction and relapse. With the development of personalized medicine, biobanking of cryopreserved specimens has become standard practice in order to investigate genetic, transcriptomic, proteomic, metabolomics and immunological biomarkers useful to inform caregivers for therapeutic decisions. Data generated from biobanked specimens represent a rapidly growing and highly valuable resource, participating in the emergence of Big Data Medicine. With the development of large computing capabilities and artificial intelligence, data associated with biobanked specimens constitute a unique resource for the discovery and validation of new biomarkers and therapeutically actionable targets. Interconnecting, interoperating and sharing this data have become major issues for national health systems, raising enormous stakes as well as major societal, legal and cybersecurity challenges in terms of compliance with the protection of personal sensitive information. This book project is the second part of an initiative launched in 2012 to produce a published corpus of knowledge encompassing all aspects of human biobanking as a central practice for research and medicine. The first volume, published in 2017, is entitled: Human Biobanking: Principles and Practice. This first volume compiled a series of high level contributions overseeing the main developments that carried the progression of human biobanking as a research and biotechnological field over the past two decades. This new book project will constitute de facto Volume 2 of the same initiative, under the title: Biobanking of Human Biospecimens: lessons from 25 years of biobanking experience. Hence, the two volumes will share the same generic title (Biobanking of Human Biospecimens), with different subtitles, making clear that the two volumes are interrelated while highlighting their specificities in terms of what they actually cover. As a result, the two books are “twins” but can also be used independently of each other. The overarching aim of the two volumes of Biobanking of Human Biospecimens is to provide a published “one-stop shop” for state-of-the-art information on what constitutes the field of human biobanking, from conception of a biobank, standard operating procedures, ethical and societal aspects, governance, networking, interoperability and economic sustainability. This inclusive publication concept meets the needs of a vast readership, including scientists, doctors and technical staffs who are directly involved in biobanking operations, scientists in other disciplines that heavily rely on biobanking (such as genomics or proteomics), stakeholders and policy makers, and of course students for whom biobanking is becoming an important part of the training curriculum. So far, there has been a lack of major textbooks on biobanking. Documentation for biobanking is widely available through numerous publications, regulatory documents published by International or Governmental Agencies, and sets of recommendations essentially accessible through the Internet. However, it is difficult to access a single, top-of-the shelf reference that provides at a glance a large coverage of all aspects of human biobanking. Fulfilling this need is the main origin of the concept for this back-to-back publication project. To our knowledge, there is currently no other publication project with the same breath and scope as this one in the field of biobanking.

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freezerworks by dataworks development: World Health Report 2012 World Health Organization, The World Health Report 2012, the biannual flagship report of the World Health Organization, focuses for the first time in its history on the theme of research for better health. Decisions on healthcare are still made without a solid grounding in research evidence, and an impetus is required for this state of affairs to change. Aimed at ministers of health, the report provides new ideas, innovative thinking, and pragmatic advice on how to strengthen health research systems. WHO and PLoS have launched an initiative to encourage researchers to complement and substantiate the key messages in World Health Report 2012 by creating a special WHO/PLoS Collection. PLoS invited the submission of papers, especially from low- and middle-income countries, on topics related to strengthening of key functions and components of national health research systems. The World Health Report 2012 focuses on eight specific areas, discussed in the editorial, within the theme of 'No Health Without Research.' We highlight below some examples of articles previously published in PLoS journals in these specific areas of interest. Now iMedPub brings this collection to you within a book.

freezerworks by dataworks development: Freshney's Culture of Animal Cells Amanda Capes-Davis, R. Ian Freshney, 2021-03-17 FRESHNEY'S CULTURE OF ANIMAL CELLS THE NEW EDITION OF THE LEADING TEXT ON THE BASIC METHODOLOGY OF CELL CULTURE, FULLY UPDATED TO REFLECT NEW APPLICATIONS INCLUDING IPSCS, CRISPR, AND ORGAN-ON-CHIP TECHNOLOGIES Freshney's Culture of Animal Cells is the most comprehensive and up-to-date resource on the principles, techniques, equipment, and applications in the field of cell and tissue culture. Explaining both how to do tissue culture and why a technique is done in a particular way, this classic text covers the biology of cultured cells, how to select media and substrates, regulatory requirements, laboratory protocols, aseptic technique, experimental manipulation of animal cells, and much more. The eighth edition contains extensively revised material that reflects the latest techniques and emerging applications in cell culture, such as the use of CRISPR/Cas9 for gene editing and the adoption of chemically defined conditions for stem cell culture. A brand-new chapter

examines the origin and evolution of cell lines, joined by a dedicated chapter on irreproducible research, its causes, and the importance of reproducibility and good cell culture practice. Throughout the book, updated chapters and protocols cover topics including live-cell imaging, 3D culture, scale-up and automation, microfluidics, high-throughput screening, and toxicity testing. This landmark text: Provides comprehensive single-volume coverage of basic skills and protocols, specialized techniques and applications, and new and emerging developments in the field Covers every essential area of animal cell culture, including lab design, disaster and contingency planning, safety, bioethics, media preparation, primary culture, mycoplasma and authentication testing, cell line characterization and cryopreservation, training, and troubleshooting Features a wealth of new content including protocols for gene delivery, iPSC generation and culture, and tumor spheroid formation Includes an updated and expanded companion website containing figures, artwork, and supplementary protocols to download and print The eighth edition of Freshney's Culture of Animal Cells is an indispensable volume for anyone involved in the field, including undergraduate and graduate students, clinical and biopharmaceutical researchers, bioengineers, academic research scientists, and managers, technicians, and trainees working in cell biology, molecular biology, and genetics laboratories.

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