



Clinical

GENOMICS LAB SYSTEMS IMPLEMENTATION

LabAnswer offers management, business, and technical consulting for Genomics laboratories with prestigious customers such as OpGen, a leading microbial genetic analysis company developing accurate and rapid clinical diagnostic tests for the growing healthcare market. LabAnswer combines management consulting, genomics laboratory domain expertise, and extensive technical knowledge to optimize genomics laboratory operations.

SUMMARY

LabAnswer implemented a cloud based, HIPAA compliant system to support OpGen’s newly launched clinical services laboratory and Acuitas™ testing services for multi-drug resistant organisms. This CLIA certified laboratory will focus on developing best-in-class portfolio of genetic tests and analysis services for the surveillance and identification of healthcare associated infections (HAIs) and human pathogens. Next generation DNA and genetic analysis technologies generate a tremendous amount of genetic data that benefits significantly from automated scientific data management that a LIMS system provides.



Example Genomics Work Flow

THE CHALLENGE

OpGen contacted LabAnswer for assistance in implementing a system to support the launch of their new clinical laboratory services. With an aggressive time line to have a system up and running, OpGen selected LabAnswer because of its depth and breadth of experience in providing complete end-to-end service solutions with capabilities to take a system’s implementation from strategy and planning, through solution implementation and then ongoing support. LabAnswer brought to bear subject matter experts with hands on experience running labs, superb design and requirements gathering skills, configuration expertise, and project management and execution methodologies to make this a reality.



“LabAnswer was instrumental to the successful launch of OpGen’s Clinical Services Laboratory, especially given our compressed time line.

LabAnswer’s domain knowledge, coupled with their technical expertise, and dedication to meeting the project goals made them the perfect partner for OpGen.”



Vadim Sapiro, CIO of OpGen

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SOLUTION SELECTION

LabAnswer and OpGen identified a LIMS Cloud Platform as the enterprise information system to support the laboratory. The LIMS application provides configurable functionality to support business functions required by the clinical lab. Deploying via a cloud platform provides many benefits including no upfront capital or hardware costs, secure infrastructure, data privacy controls, and flexibility needed to rapidly develop and deploy an application. As business demand for the clinical services increases, the cloud platform will also be able to continuously scale without hardware upgrade projects.

IMPLEMENTATION APPROACH

At the onset, LabAnswer and OpGen formulated both strategic and tactical plans to deliver highest value functionality within strict business deadlines. In a strategic planning capacity, LabAnswer defined implementation scope by defining vision, goals and objectives, creating business process work flows and eliciting requirements. After the initial scope was defined, the teams worked together to prioritize critical system and high value functions to be implemented in the LIMS, and relegated lesser value functions to an enhancement queue. In parallel, the LIMS Cloud Platform was setup to support the configuration, testing and deployment phases of the project. LabAnswer developed the system in an iterative prototyping model that kept the OpGen team constantly engaged in the evolution of the system. As the system development entered into the final phase, LabAnswer executed the training and data prep for system go live.

ABOUT OPGEN, INC.

OpGen, Inc. is a leading microbial genetic analysis company developing accurate and rapid clinical diagnostic tests for the growing healthcare market. The company is building on the success of its genomic and DNA analysis systems and services in the public health and life sciences sectors to expand its focus into clinical diagnostics to combat complex healthcare associated infections where there is a significant unmet clinical need. OpGen's clinical services laboratory utilizes the latest next generation technologies with an emphasis on improving patient outcomes and reducing healthcare costs by providing comprehensive, clinically relevant genomic information. The company's Whole Genome Mapping technology, software and services are used by public health laboratories, health care institutions, and the life sciences community around the world for strain typing, comparative genomics, and sequence assembly and finishing.

For more information, please visit www.opgen.com.



“OpGen made a great partner for this implementation as they understood the value a LIMS can bring to their business.

They collaborated with the LabAnswer team to leverage the LIMS platform to its fullest value and were actively involved every step of the way.

We met critical business goals together.”



Brian Brunner of LabAnswer's Clinical Practice.



LABORATORY INFORMATICS

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