

### GlaxoSmithKline (GSK) deploys Data Management solution for Next-Generation Sequencing Lab



**GlaxoSmithKline plc** (LSE: [GSK](#) NYSE: [GSK](#)) is a United Kingdom-based [pharmaceutical](#), biological, and [healthcare company](#). **GSK** is the world's second largest pharmaceutical company and a research-based company with a wide portfolio of pharmaceutical products covering anti-infectives, central nervous system, respiratory, gastro-intestinal/metabolic, oncology, and vaccines products.

#### The Challenge

The Molecular Discovery lab of GSK sought to architect, implement and support a data management solution that could properly support their emerging Next Generation Sequencing (NGS). The first issue was implementing the proper solution in a short amount of time. They were also faced with finding a partner that would understand the environment, could recommend then implement the proper scalable solution and, work well with their internal support team. Typically the instrument vendor will provide an entry-level compute system. However, these systems often do not scale to the appropriate level needed should a customer such as GSK need additional instruments in the environment. Their existing challenges included:

- Tight timeline
- Infrastructure limitations for NGS environment
- Budget Constraints
- Computational limitations – needed faster time to results

#### The Solution

Because of our experience with Sequencing environments and other groups at GSK, RCH was selected to integrate a scalable compute solution to manage the data results from the Illumina instruments. We worked directly with the internal IT staff, research scientists, and instrument vendor to provide the optimum scalable solution for this dynamic environment. It was because of our proven reputation at GSK and other pharmaceutical companies that RCH was chosen for this challenging task. We proposed:

- Flexible and scalable industry leading servers and storage
- Minimal management administration overhead
- Integrated strategic plan using best of breed options
- Scalable computationally

#### The Results

Today, the Molecular Discovery group of GSK has a comprehensive, scalable, flexible data management solution designed to support their dynamic NGS environment. Even though their instrument environment may change, they now have in place a flexible system that will accommodate that growth. Fortunately, they were able to work with a vendor in RCH that has specific experience and working with such research groups. The RCH team was able to act quickly and efficiently within the customers parameters.

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