

Case Study: Cornell University and Ingenuity Variant Analysis

Introduction

This case study of Cornell University is based on a March 2013 survey of Ingenuity Systems customers by TechValidate, a 3rd-party research service.

"Identifying the causal variants supported by high confidence literature is the key thing in which our institute is interested. Ingenuity makes it so simple and easy. [Our] thanks to Ingenuity."

Challenges

- Solved the following challenges by deploying Ingenuity Variant Analysis:
 - Realized faster and easier identification of causal variants
 - Improved access to biological content including primary sources
 - Improved sharing and collaboration capabilities
 - Eliminated the need for creating and maintaining own up-to-date database of biomedical literature
 - Enabled support for more studies by providing a self-service tool for colleagues and collaborators
- Purchased Ingenuity Variant Analysis for the following reasons:
 - Access rich biological content in Ingenuity Knowledge Base plus additional sources of variant level content
 - Reduce time to identify variants worth following up on
 - Identify high impact, most compelling variants to follow up on
 - Collaborate and share easily with colleagues and peers

Organization Profile

Organization: **Cornell University**

Industry: **Educational Institution**

About Ingenuity Systems

QIAGEN offers industryleading applications for the analysis, interpretation, and reporting of biological data.

Understanding raw data is one of the most significant challenges in modern molecular methods. Data must be examined within the context of complex biological processes, and rapidly increasing throughput makes analyses time and labor intensive. QIAGEN's portfolio of powerful tools addresses this bottleneck with innovative applications based on cutting-edge bioinformatics.

Use Case

- Uses the following applications with Ingenuity Variant Analysis:
 - DNA sequencing Whole Genome
- Sequencing data is from the following platforms:
 - Illumina Genome Analyzer (GA) / HiSeq

Results

- Chose Ingenuity Systems over the following solutions:
 - ANNOVAR
 - VAAST / Omicia
- Saves > 3 days per sample using Ingenuity Variant Analysis for DNA variant annotation and analysis.
- Reduced time to results by > 75% by using Ingenuity Variant Analysis for DNA variant annotation and analysis.
- Rated the following Ingenuity Variant Analysis capabilities in terms of how differentiated they are compared to other data analysis solutions:
 - Speed: 5 (strongly differentiated)
 - Accurate evidence: 5 (strongly differentiated)
 - Accessibility/ ease of use: 5 (strongly differentiated)
 - Sharing with colleagues/peers: 5 (strongly differentiated)
 - Security: 5 (strongly differentiated)
- Is extremely satisfied with the ease of use of Ingenuity Variant Analysis.

Learn More:

CQIAGEN

Ingenuity Systems

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Research by

TechValidate

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