

Case Study: Harvard University and Ingenuity Variant Analysis

Introduction

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



“[Ingenuity Variant Analysis] helped provide clarity, confirmation and graphic visualization of our analysis results.”

Challenges

- Solved the following challenges by deploying Ingenuity Variant Analysis:
 - Realized faster and easier identification of causal variants
 - Reduced IT infrastructure costs
 - Improved access to biological content including primary sources
 - Improved sharing and collaboration capabilities
 - Reduced the need for developing own informatics pipeline
 - Eliminated the need for creating and maintaining own up-to-date database of biomedical literature
 - Enabled independent study without the need for specialized bioinformatics skills
 - 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
 - Access user friendly interface and no bioinformatics experience needed
 - Collaborate and share easily with colleagues and peers

Use Case

- Uses the following applications with Ingenuity Variant Analysis:
 - Gene Pathway Analysis
- Sequencing data is from the following platforms:
 - Illumina MiSeq

Results

- 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:
 - Accessibility/ ease of use: 3 (differentiated)
 - Speed: 4 (very differentiated)
- Is satisfied with the ease of use of Ingenuity Variant Analysis.

Organization Profile

Organization:
Harvard University

Industry:
Educational Institution

About Ingenuity Systems

QIAGEN offers industry-leading 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.

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