Case Study: Educational Institution

Introduction

This case study of a educational institution is based on a July 2013 survey of Ingenuity IPA customers by TechValidate, a 3rd-party research service. The profiled organization asked to have their name blinded to protect their confidentiality.

> " **"IPA is very useful and has become a daily tool of my research."**

Challenges

- Solved the following challenges since deploying IPA for RNA sequencing analysis:
  - Improved understanding of the structure of different isoforms
  - Can now distinguish different isoforms
  - Can more clearly identify biologically relevant isoforms
- Purchased IPA for RNA sequencing analysis for the following reasons:
  - Interpret the impact of expression changes in the context of biological processes, disease and cellular phenotypes, and molecular interactions
  - Compile targeted bibliographies with experimental evidence linking their differentially expressed isoforms to biological processes, disease, and molecular interactions

Use Case

- Uses the following species in their RNA seq analysis:
  - Humans
  - Mice
- Uses the following upstream analysis packages to generate RNA-Seq expression values:
  - EdgeR

Results

- Purchased IPA for RNA seq analysis over the following competitors:
  - GeneGo
- Rates the following IPA capabilities compared to the competition:
  - Faster time to insights: extremely differentiated
  - Ease of use: extremely differentiated
  - Novel insights: extremely differentiated
  - Deeper analysis: extremely differentiated
- Is extremely satisfied with the value for identifying biologically relevant isoforms from RNA seq data using IPA.

About Ingenuity IPA

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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