

Identify Cancer Driven Variants from Human Sequencing Data

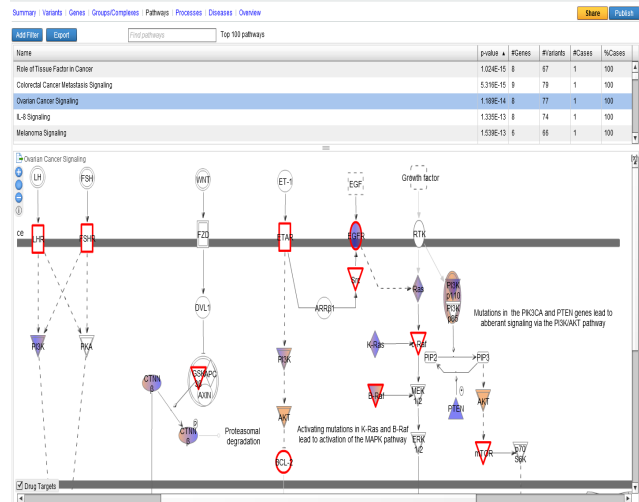
Ingenuity® Variant Analysis™ combines analytical tools and integrated content to help you rapidly identify the most compelling disease variants using selection criteria based both upon published biological evidence and your own knowledge of disease biology.

Overview

Ingenuity Variant Analysis provides simple and secure access to a web-based application that helps you rapidly identify **cancer driver variants** from human DNA sequencing datasets and interpret their impact on signaling pathways and drug response.

The HIPAA certified Variant Analysis application allows for knowledge-driven identification of disease-causing variants by leveraging the expert-curated Ingenuity® Knowledge Base of human pathology, which includes over 4 million variant and gene findings curated from the literature and public databases such as COSMIC and OMIM. Additionally, Ingenuity provides cancer disease models that streamline the identification of causally-consistent cancer driver variants.

Both single tumors and tumor-normal pairs can be analyzed to assess the impact of SNP, indel, gene fusion, and copy number variants on gain or loss of function of gene activity. The consequences of deleterious mutations can be visualized on cancer pathway diagrams to understand synergistic effects and to identify commonalities across tumor type or time series. Curated pharmacogenetic and drug target/treatment information relevant to driver mutations can also be readily reviewed.



Leverage deep biological knowledge to identify gene mutations that affect biological pathways and processes most relevant to particular forms of cancer.

Intuitive design is easy to use

Variant Analysis was designed to be easy for researchers to use. Just apply a series of simple, intuitive filters to sort through variants and quickly identify those most likely to impact symptoms, biological processes, or genes known to be implicated in drug response or disease progression.

Learn more and try it at:
www.ingenuity.com/variants

