

VIDEO TRANSCRIPT

INTIENT[®]

RESEARCH: TARGET ID

The INTIENT platform enables insights and collaboration across life sciences and healthcare.

INTIENT's core capabilities include:

- a compliant and secure infrastructure,
- machine learning-ready data management tools,
- DevOps and testing tools, and
- common runtime.

INTIENT also includes specific capabilities across four product suites.

The platform is powered by Google Cloud and supported by the INTIENT network partner ecosystem, giving access to independent software, services, hardware and content providers on Google Cloud's open architecture.

Let's have a closer look at INTIENT Research:

INTIENT Research is a powerful product suite for research teams. INTIENT Research offers solutions for each step in the drug development process. One solution helps researchers find promising drug targets. This is usually like looking for a needle in a haystack.

The INTIENT Research Target ID solution is designed to help make the haystack more manageable. It does this by identifying and ranking promising targets for a given disease, and providing insights to assess their viability and probability of success.

This is Angela. She is a biologist, and currently in the process of identifying relevant targets for a new drug. Let's see how INTIENT Research can make her target ID process easier.

Upon log in, she arrives at the "disease or gene selection" page. Here, she is able to see what type of data, and how much of that data, is available in the database for a given disease. She can also select which data sets she wants to be used for her analysis. She can either search for a gene or a disease to investigate. She selects the list entry for rheumatoid arthritis, and is taken to the RA page, where she sees an overview of that disease and a ranking of gene targets for RA.

She can navigate down this list using the strip plot, or the page clicks at the bottom. The targets which have already been reviewed by scientists in her organization are listed, as well as the ones which have been recommended for or against pursuit, for this disease.

She now selects a target of interest, and an overview of that target appears. Since she is not a data scientist herself, she requests a bioinformatician in her organization to assess the viability of this target. Here, she articulates her rationale for why she wants to review this target, and the hypothesis she has for its impact.

Michael, who is a bioinformatician in Angela's organization, is now able to initiate his own review of the target. This collaboration leverages the "supporting evidence" functionality of INTIENT Research.

Michael receives a notification of Angela's request, and starts his review.

He investigates the requested target by looking at which other genes appear in this locus, and where specific variants lie in relation to those genes.

The solution also provides him with additional pieces of supporting evidence, such as the physiological processes which are modulated by this target, the genetic pathways up and downstream of this target, a list of drugs that exist for this target along with their approval status and indications, as well as the protein interactions which exist for this target.

With all these powerful insights at hand within Target ID, Michael produces a useful set of data around the target, helping Angela identify and collect the most promising targets for their new drug quickly and precisely.

This is just one of the many solutions available within the INTIENT Research product suite, which is an integral part of the INTIENT platform, a comprehensive, unique platform that enables insights and collaboration across life sciences and healthcare.

Please visit our website at [Accenture.com/INTIENTResearch](https://www.accenture.com/INTIENTResearch) to learn more.