

Round-Up 2023: What's new in the ASCEND platform

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A look back at some exciting features that we built in 2023 to empower scientists to design more successful experiments

We expanded our data coverage

Throughout 2023, we added over **8 million products**, **1.7 million publications**, and **34 million experimental insights** to the platform. We also added four new data sources:

Enhance your view of biological connections with abstract data

We now incorporate publication abstracts as an additional data source that you can leverage to quickly assess the results and conclusions from studies. [Learn more](#).

Available for the following app(s): **Navigator**, **Architect**, and **Defender**

Discover new experimental insights with patent data

Patents can provide insight into disease hypotheses and validation of target genes, proteins, and drug compounds. We now incorporate patents across various therapeutic areas as an additional data source to explore. [Learn more](#).

Available for the following app(s): **Navigator** and **Architect**

Access thousands of new papers from Sage Publications

Through our new partnership with Sage Publications, the world's fifth-largest journal publisher, we've increased our data coverage across the platform in areas such as musculoskeletal, cardiometabolic, and neuroscience research.

View the latest developments in health sciences research from medRxiv

Reviewing preprint data enables scientists to gain early visibility into cutting-edge research. Our preprint coverage across the platform now includes medRxiv and bioRxiv, for a total of 450,000 experiments linked to 100,000 figures. [Learn more](#).

Take a deeper dive into these powerful updates

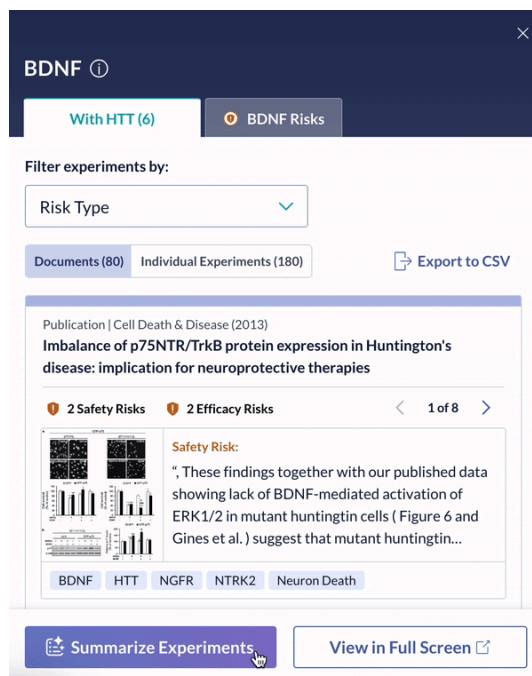
Streamline evidence review with AI-generated summaries

When searching in Navigator, you may surface many results supporting a connection between two biological

entities (such as proteins, genes, diseases, and drugs). To expedite the evidence review process, we built an AI-powered summarization feature that quickly consolidates experimental insights in paragraph form. [Learn more](#).

This feature is currently in beta and available to select customers.

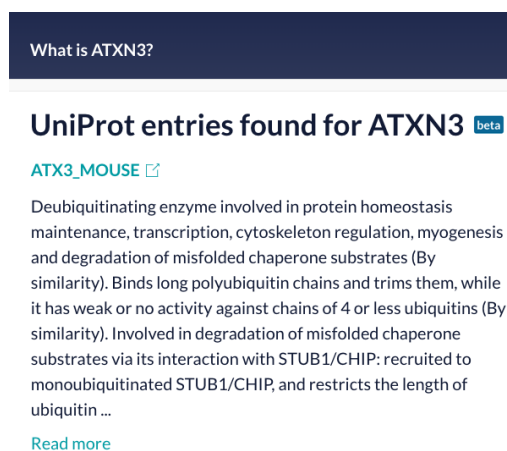
Available for the following app(s): **Navigator**



Access overviews of protein, gene, and chemical functionality

When searching in Navigator, you may encounter proteins/genes and chemicals that you are not immediately familiar with. We now surface protein function information from [UniProt](#) and chemical property information from [ChEBI](#) directly within the evidence pane to help you quickly understand the underlying biology behind the connections shown in the evidence network. [Learn more](#).

Available for the following app(s): **Navigator**

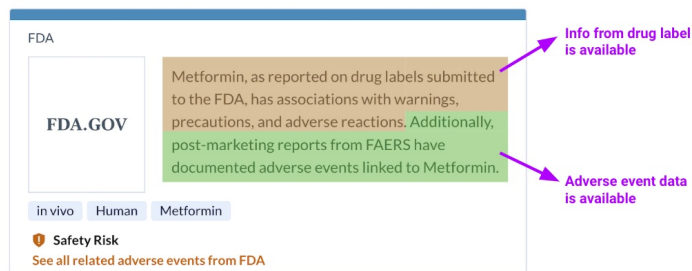


Leverage new risk data sources

We added multiple new data sources to help you identify potential safety risks:

- **Mouse Genome Informatics:** Access data about the viability and outcomes associated with transgenic and knockout mice. [Learn more.](#)
- **Online Mendelian Inheritance in Man:** Review potentially harmful phenotypes associated with modulation of a target. [Learn more.](#)
- **U.S. Food and Drug Administration:** View safety warnings/precautions and adverse event data for drugs and chemicals. [Learn more.](#)

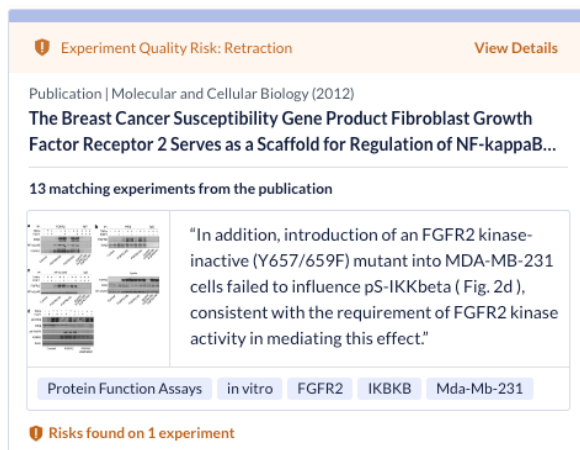
Available for the following app(s): **Navigator** and **Defender**



Easily identify if a paper has been retracted

We've partnered with [Retraction Watch](#) to identify papers that have been retracted for methodological issues, scientific misconduct, or other reasons. These papers are flagged as Experiment Quality Risks so you can make the best decision possible about whether to trust the results or if it is better to explore other evidence. [Learn more.](#)

Available for the following app(s): **Navigator** and **Defender**



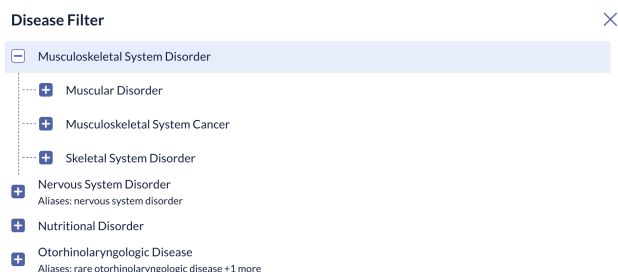
Improved filtering for diseases and biological pathways

We've made improvements to help you search for connections between entities such as genes, proteins, pathways, and diseases:

- **Disease filtering:** You may want to expand (or restrict) your search for higher-level disease classes (like *cancer*) or disease subclasses (like *gastrointestinal cancer*). We integrated our disease library with [Mondo Disease Ontology](#), a trusted third-party source for disease classification and hierarchies, to help you easily identify relationships between parent diseases and those classified under them. [Learn more.](#)

- **Pathway filtering:** You may want to expand (or restrict) your search for higher-level pathways (like *cell activation*) or pathway subclasses (like *T cell activation*). We restructured our pathway library into hierarchies using trusted third-party sources (including [KEGG Pathway Database](#) and [Gene Ontology Resources](#)) to help you understand pathway relationships and find relevant evidence. [Learn more.](#)

Available for the following app(s): **Navigator** (diseases and pathways) and **Architect** (diseases)



Filter evidence by *in vitro* or *in vivo* experiments

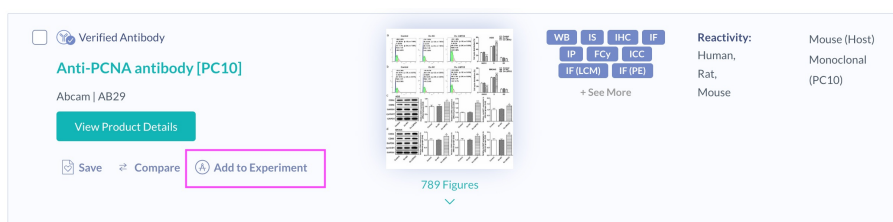
We introduced an ***in vitro/in vivo*** filter to help you accelerate your literature review and quickly surface experimental evidence that is most relevant to your research. [Learn more.](#)

Available for the following app(s): **Navigator** and **Architect**

Add Selector products directly to an Architect experiment

We added new functionality to Selector that allows you to easily populate reagents and model systems of interest into a new or existing experiment plan in Architect. This means you can now start your experiment design process in either Architect or Selector. [Learn more.](#)

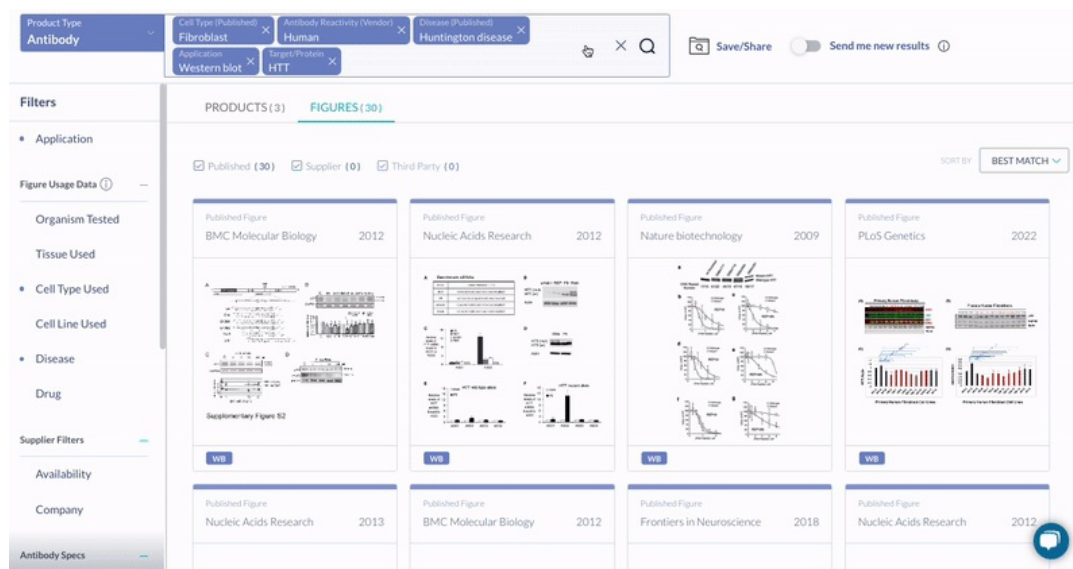
Available for the following app(s): **Architect** and **Selector**



Get notified when there are new results for your reagent or model system search

You can now opt in to receive email alerts when new product and figure results matching your search criteria are added to our platform. This will help you stay informed about recent developments in your field. [Learn more.](#)

Available for the following app(s): **Selector**



Find animal model data based on dietary conditions

The new **Diet** filter helps scientists find animal models of interest and supporting publication data based on dietary conditions. For example, if you were looking for an animal model to study obesity, you may want to find animal models fed a *high-fat diet*.

Available for the following app(s): **Selector**

Filters		Diet	
Application		Search for Diet	
Figure Usage Data			
Tissue Used			
Cell Type Used			
Cell Line Used			
Disease			
Diet			
Supplier Filters			
Availability			
Company			
Accreditation			

Name	Products	With Published Figures
High-fat diet	111	111
Deficient diet	18	18
Low-fat diet	17	17
Western diet	14	14
Ketogenic diet	5	5
Rodent diet	5	5
High-fat/ high-sugar	4	4
Ain-93g	3	3
Ain-93m	3	3

Surface more data for microbial research

Leverage the new *Microbial Detection* option in the **Application** filter to narrow your search for antibody and PCR products that target microbial proteins. We also added more catalog data from vendors like *Meso Scale Discovery* and *Sino Biological* to provide scientists researching microbial targets with more relevant product and figure data.

Available for the following app(s): **Selector**

Please note that access to these features and enhancements depends on what is available at your

organization.