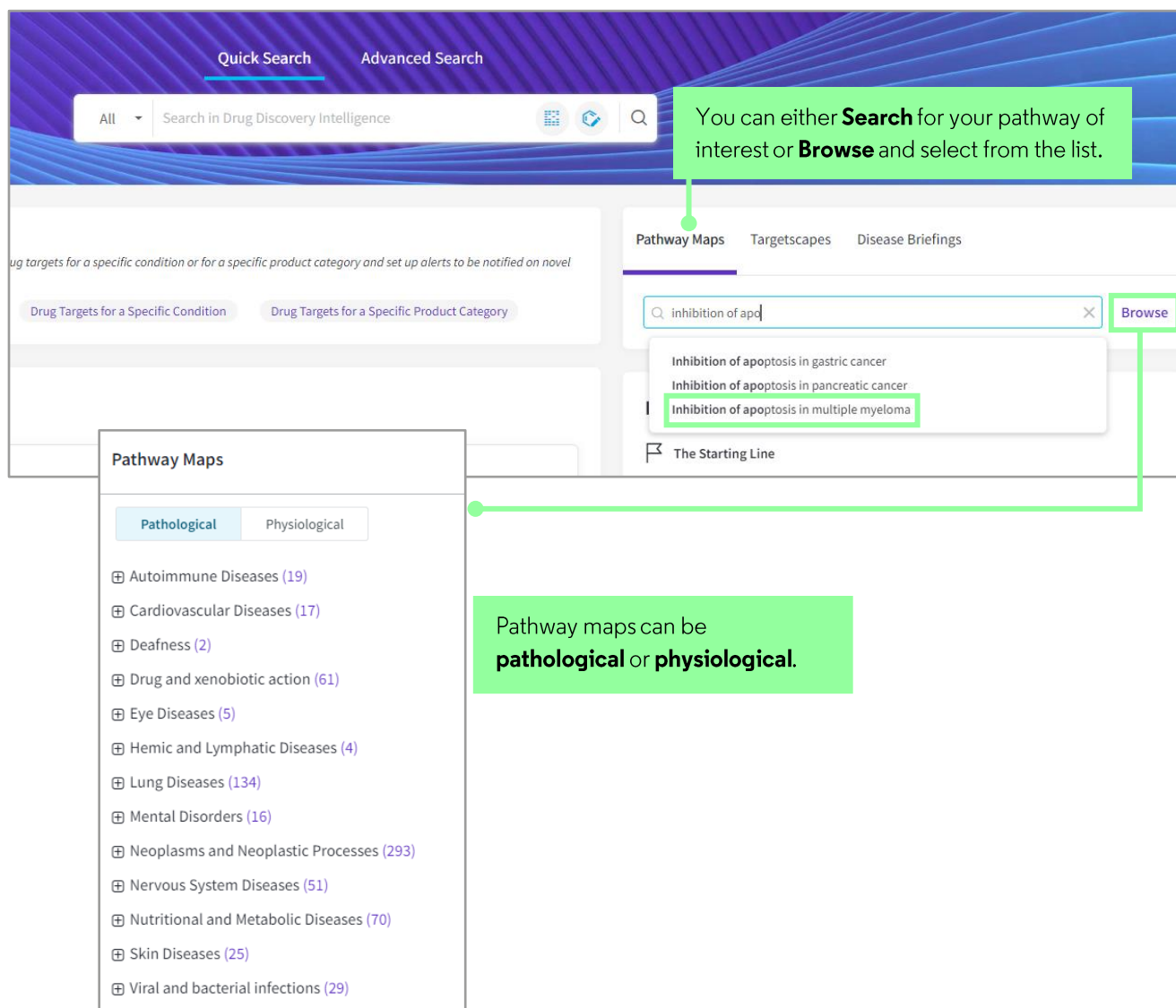


Pathway maps

The Gene & Targets area now contains pathway maps to provide further biological context around your targets of interest. These pathway maps show molecular interactions that have been manually curated and validated from peer reviewed articles.

1. Easily access Pathway Maps with the **shortcut** on the landing page.



You can either **Search** for your pathway of interest or **Browse** and select from the list.

Pathway Maps

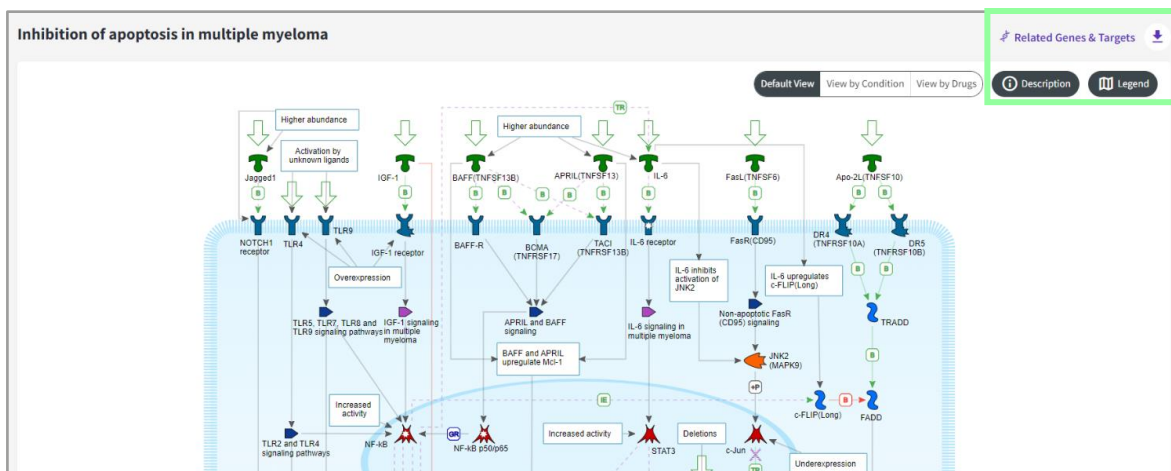
Pathological Physiological

- ⊕ Autoimmune Diseases (19)
- ⊕ Cardiovascular Diseases (17)
- ⊕ Deafness (2)
- ⊕ Drug and xenobiotic action (61)
- ⊕ Eye Diseases (5)
- ⊕ Hemic and Lymphatic Diseases (4)
- ⊕ Lung Diseases (134)
- ⊕ Mental Disorders (16)
- ⊕ Neoplasms and Neoplastic Processes (293)
- ⊕ Nervous System Diseases (51)
- ⊕ Nutritional and Metabolic Diseases (70)
- ⊕ Skin Diseases (25)
- ⊕ Viral and bacterial infections (29)

Pathway maps can be **pathological** or **physiological**.

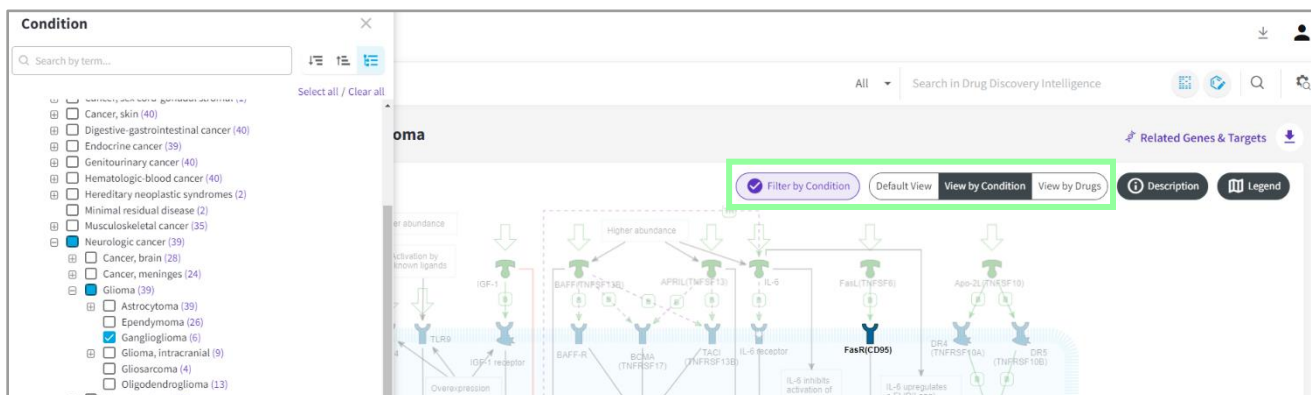
2. Pathway maps are **completely interactive** so that you can easily click through to objects of interest, as well as navigate and understand the cascades leading to a particular process.

Use the options on the top right to read the **description** and **legend** of the map, **download** it in a high-quality image, and navigate to the **associated target records**.

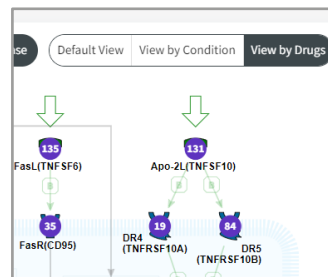


3. Pathway maps have 2 alternative views that can be selected from the top menu:

- a. **View by Condition** – Highlights objects that have been associated with a particular condition. Use the **Filter by Condition** button to refine by your condition/s of interest.



- b. **View by Drugs** – Shows the number of drugs associated with each object. You may click on the object of interest to navigate to the associated list of drugs & biologics.



Pathway maps are also available within your gene/target records to quickly visualize neighbouring molecules and understand the biological and pathological processes in which they are involved.

1. Search for your target of interest and navigate to **Biological Context**. Under **Pathway Maps**, select the pathway you'd like to explore:

Genes & Targets "APRIL" ✕ 🔍

TNF superfamily member 13

Record Conditions Therapies Gene Variants Biological Context

Pathway Maps

- Apoptosis and survival_APRIL and BAFF signaling
- Apoptosis and survival_Anti-apoptotic TNFs/NF-kB/Bcl-2 pathway
- Apoptosis and survival_Anti-apoptotic TNFs/NF-kB/IAP pathway
- B cell signaling in hematological malignancies
- Dysregulation of germinal center response in SLE
- Immune response_IL-4-responsive genes in type 2 immunity
- Inhibition of apoptosis in multiple myeloma
- NF-kB pathway in multiple myeloma
- Renal tubulointerstitial injury in Lupus Nephritis
- Role of B cells in SLE

Within Biological Context, you will find **Pathway Maps**, as well as **Targetscapes** and **Scientific Animations** – all of them designed to help unveil the target's role in biological systems.

Lastly, you can easily identify pathway maps that are more prominent in a list of genes/targets.

1. After performing a Genes & Targets search, use **Apply Filters** to refine your results by **Pathway Maps**:

Genes & Targets Conditions Gene Variants Overview

▼ Apply Filters Customize Columns Sorted by relevance

Name	Gene Symbol	Synonym	Organism	PDB	Drugs	Drug Highest Phase	Experimental Pharmacology	Experimental Models	
chromosome 1 open reading frame 35	C1orf35	C1orf35 C1orf35 variant 1	Homo sapiens (human)		0		0	0	
<div style="display: flex;"> <div style="flex: 1;"> <p>Apply Filters</p> <ul style="list-style-type: none"> Condition Organism Molecular Function Biological Process Subcellular Location Tissue Expression Pathway Map Drugs Drug Highest Phase Drug Under Active Development Condition Phase Development </div> <div style="flex: 2;"> <p>Search</p> <p>Select all / Clear all</p> <ul style="list-style-type: none"> <input type="checkbox"/> T follicular helper cell dysfunction in SLE (47) <input type="checkbox"/> Macrophage and dendritic cell phenotype shift in cancer (45) <input type="checkbox"/> Role of B cells in SLE (43) <input type="checkbox"/> Immune response_CD40 signaling in dendritic cells, monocytes, and macrophages (42) <input type="checkbox"/> Immune response_IL-3 signaling via JAK/STAT, p38, JNK and NF-kB (42) <input type="checkbox"/> COVID-19: immune dysregulation (39) <input type="checkbox"/> Role of tumor-infiltrating B cells in anti-tumor immunity (39) <input type="checkbox"/> Androgen receptor activation and downstream signaling in Prostate cancer (38) <input type="checkbox"/> EGFR family signaling in pancreatic cancer (38) <input type="checkbox"/> Immune response_TCR alpha/beta signaling (38) <input type="checkbox"/> Oxidative stress_ROS signaling (38) <input type="checkbox"/> Signal transduction_FGFR3 signaling (37) <input type="checkbox"/> SLE genetic marker-specific pathways in T cells (37) <input type="checkbox"/> Signal transduction_MIF signaling (36) </div> </div>									
					2D0LL 6TD4	2	Phase I	14	4
					7JH4 7O56				
					5LSU 5VCR	20	Phase I	57	0
					6UE6 6XCC				

Pathway maps are sorted by frequency. The purple numbers reflect how many results in the list appear in each map.

For more information contact Customer Service at [**LS Product Support**](#).