Q1 2022: What's new in Selector (Reagents and model systems)

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We are excited to announce new enhancements to the platform between January - March 2022.

This quarter, we added data from over **5,500,000 experiments** and **1,800,000 products** across our reagent and model system types. In addition, we added preprint data from **bioRxiv** as a new data source, **amino acid coordinates** for protein products, new specifications for **ELISA kits**, and more! Learn about these new features below!

Please note that access to these features and enhancements will depend on which reagents and model systems are available at your organization.

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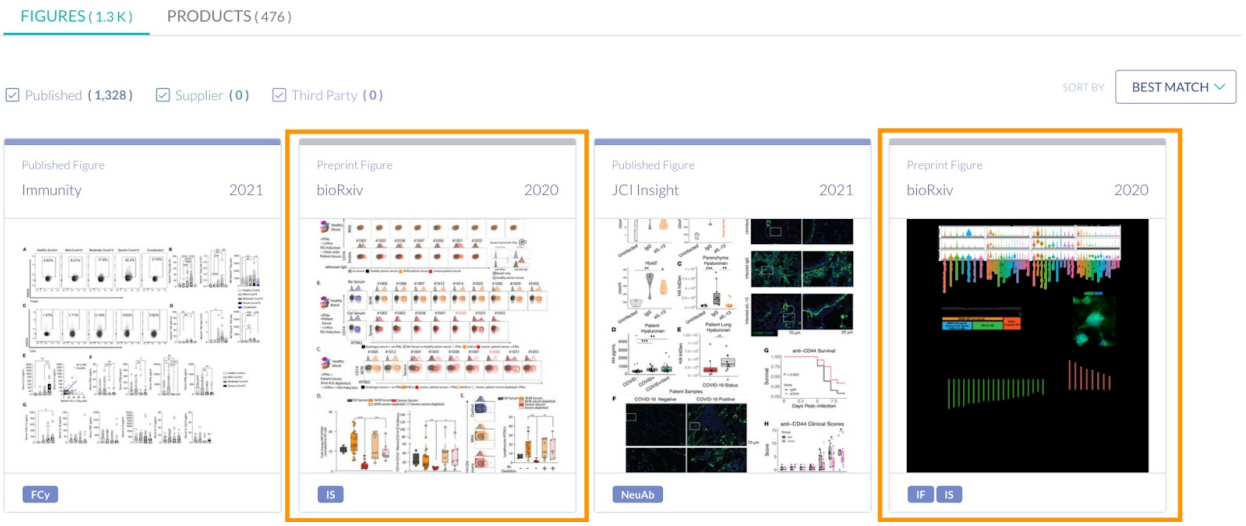
1. Preprint data is now on the platform

BenchSci has partnered with **bioRxiv** to provide you with visibility on the latest developments in biomedical research. This new data source will help you:

- Stay up-to-date on recent research being explored against your target
- See which products have been used most recently
- Avoid waiting months to years for an article to be published in a peer-reviewed journal

Click here to learn more about viewing preprint data.



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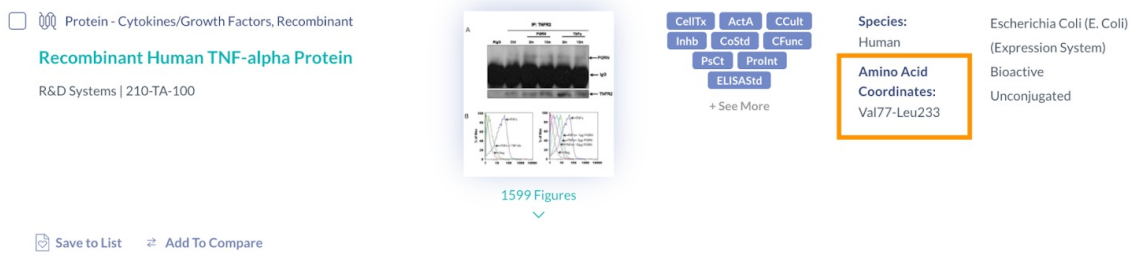
2. Protein amino acid coordinates

You can now easily identify the protein fragments being sold by vendors by reviewing amino acid coordinates for protein products. Our internal team of bioinformaticians has mapped vendor-provided protein sequences to

determine amino acid coordinates across over 1 million protein products. This will help you select protein products with greater confidence, ensuring proteins contain key functional groups before purchasing. Click here to learn more.

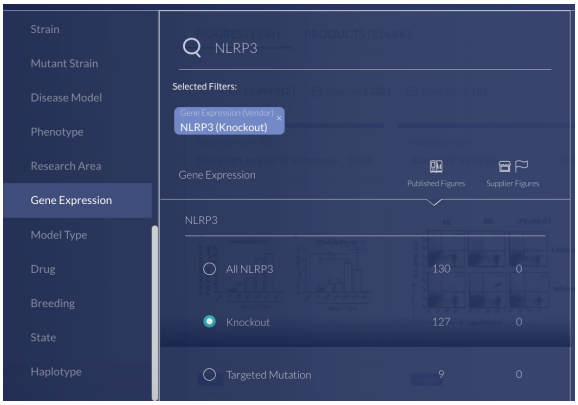


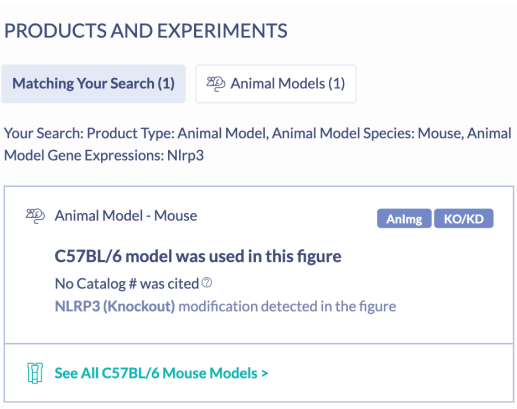
3. Predicted PCR binding location for in-house generated products

Predicted binding location data for in-house generated PCR primers and probes is now available. BenchSci has leveraged its strong bioinformatics pipeline to infer predicted binding location data for 33% of in-house generated PCR primers and probes. This improvement will enable you to select custom primers with greater confidence, as previously, we only had this binding location data for vendor products. Click here to learn more.

4. Find animal models with custom genetic modifications

BenchSci has developed novel technology to detect **genetic modifications** in animal models within the literature, adding data from an initial 16,000 figures! Avoid going down the path of generating your own model that may already exist. You can now search by gene name to find the most appropriate animal model for your research across commercially available models with genetic modifications of interest and custom models produced by labs in-house post-purchase. Click here to learn more.





5. Links to cell line gene expression databases

When searching for cell lines, you can now review gene expression data from three third-party data sources: *ImmGen*, the *Human Protein Atlas*, and the *Human Cancer Model Initiative*. A link to these databases is listed on product pages, where available, to provide additional product details, including gene profiles, increasing confidence when selecting cell lines for your experimental context. Click here to learn more about finding gene expression data for cell products or check out our blog post.

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6. New specifications for ELISA kits

Based on user feedback, we have added new product specifications for **ELISA kits**, including *Sensitivity, Assay Format, Detection, Inter-assay Precision*, and *Intra-assay Precision*, where available. Based on these ELISA kit specifications, you will now be able to make more informed selections based on requirements for your experimental context. Click here to learn more about these new specs .

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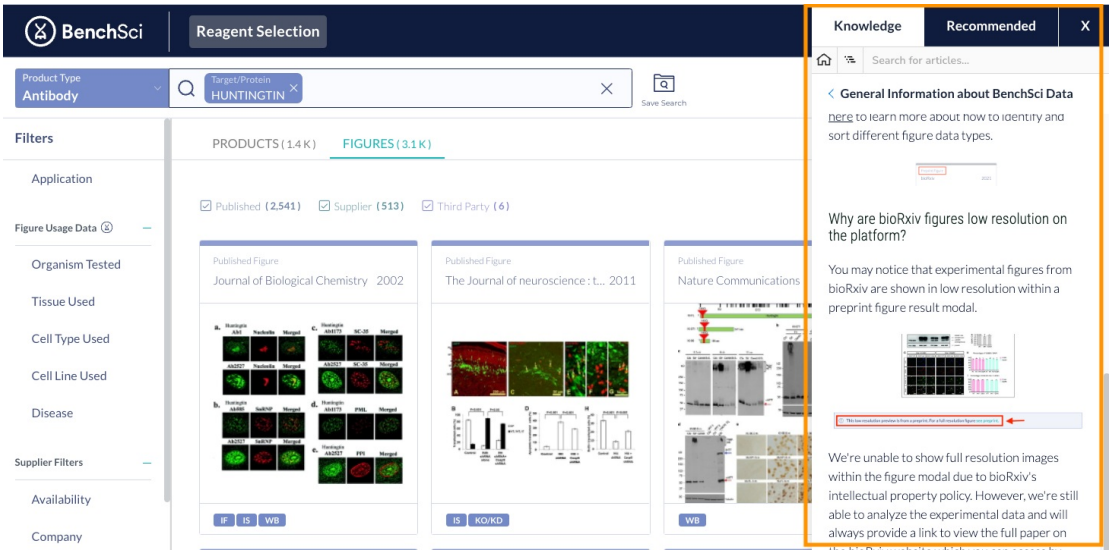
7. Knowledge Center help widget

The **Knowledge Center** is home to over 200 articles that provide helpful how-to guides, strategies for searching our database, and answers to FAQs about our features and data.



The *Support* button in the top right corner of the app opens a widget to quickly and easily access help content from our **Knowledge Center** while you are searching, all in the same window. Click here to learn more about utilizing the in-app widget.

Please note that access to these features and enhancements will depend on which reagents and model systems are available at your organization. If you have access to antibody data only, check out our **Antibody** update.