Re-profile a drug using Clarivate Analytics Integrity

Does your company have technology that could support repurposing of known drugs, including those that didn’t make it to the market because they were not efficacious enough?

Clarivate Analytics Integrity can accelerate your drug re-profiling research by pinpointing potential products of interest. Benefit from intuitive filtering tools within Integrity to narrow down your research results and identify products that may be suitable for re-profiling. You can also use Integrity to gather all related information associated with your potential product in different Knowledge Areas to try to understand why development hasn’t advanced and what recent activity there has been around the drug. Example Scenario: your company has a new platform technology to improve bioavailability of compounds formulated in capsules. As a biochemist, you would like to search Integrity for known drugs developed with capsule formulation that did not make it to the market because of poor efficacy due to low bioavailability in plasma.

Search for drugs with pharmacokinetic values indicating potential bioavailability issues:

To search for compounds with specific pharmacokinetics values for a certain parameter you should start with a search in the Pharmacokinetics/Metabolism Knowledge area.

In the advanced search form you can select Administered Product and then the Formulation field; in this case we are interested in the bioavailability of compounds formulated in capsules.

Using the search field called Value, in the Measured Product submenu, you can search for low PK values for a particular parameter. Select bioavailability (F), and add units, in this case percentage, and define the values you wish to find, in this example less than 50%.

You can search for PK/M results for drugs tested in humans by selecting the field Model and Humans.

Tip:
- To find a list of parameter abbreviations and definitions, click Frequently Asked Questions either on the bottom left-hand side of the Integrity home page or under the Support/Help tab on the navigator bar.
- Use the Browse Indexes (Index button to the right of the search field) to select and copy search terms to the from.

Click Start to launch your search and display results.
Find compounds of potential interest for your research:

To review further information associated with these results, you can open the Options pull-down menu and click All Related Information via Quick Search.

To review the drug records to pinpoint potential product suitable for reprofiling, click the Drugs & Biologics link.

To see the full product records, open the Options pull-down menu and select Full Records.

If you have any questions please contact us at: DTStraining@clarivate.com
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Tip: Some Pharmacokinetics/Metabolism records have an associated metabolic scheme. This is indicated by a button labelled “Metab” in the results table display. Click on this button to open a popup window with a metabolism scheme, text description and related references.

To find products that did not make it to the market you can use **Filter by Statistics** and select **Development Status**. From the chart select products that are not launched.

You can also select **Under Active Development/No development Reported** and select only product with no development reported.

Once you have identified an interesting product, you can get background information before contacting the company to offer your technology.

For example, look at the **Experimental Pharmacology** data to see the activity levels and at the **Literature** references to try to understand why development hasn’t advanced and what recent activity there has been around the drug.