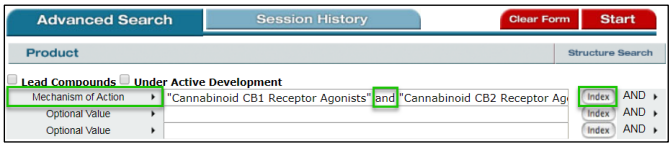
Find suitable experimental models for your compound

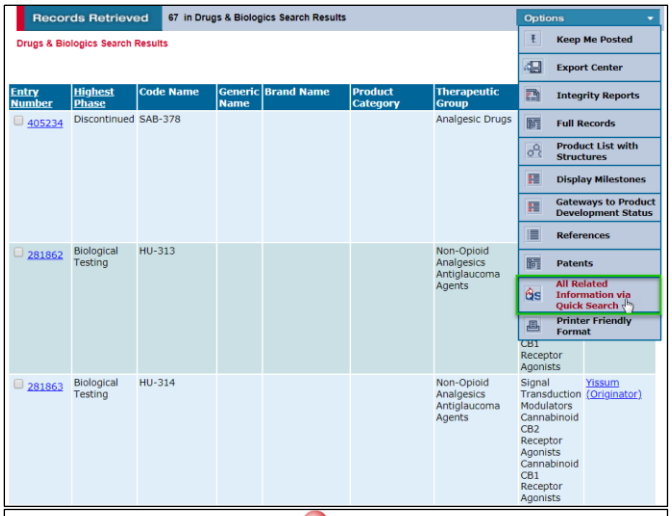
Are you interested in finding comprehensive information on validated, in vivo, preclinical models of human diseases, toxicity, or target efficacy studies that can be used in testing your compound?

Experimental Models Knowledge Area of *Clarivate Analytics Integrity* enables you to find models of human disease and understand a model´s performance in previous assay/drug tests. You will be able to access information about model-related drugs, biomarkers, targets, genomics, experimental pharmacology, literature, and patents where available. **Example Scenario**: you have identified a cannabinoid receptor agonist for the treatment of pain with a dual mechanism of action and would like to start preclinical trials in an animal model. You want to identify other compounds that have a dual cannabinoid agonist mechanism and review the models the drugs were tested on.

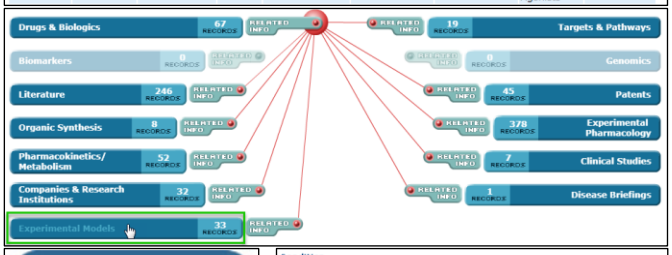
Find suitable experimental models for testing your compound:



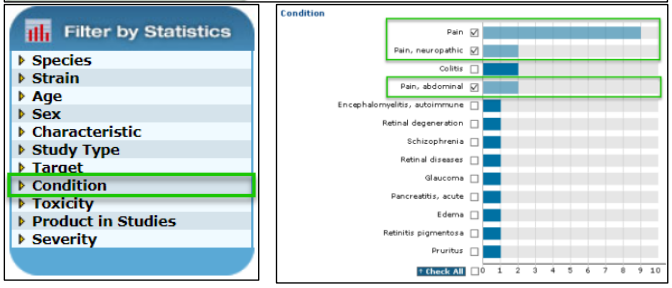
In *Integrity* you can set up a search to find compounds that have a dual mechanism of action. In the **Drugs & Biologics** Knowledge Area run a search using the **Mechanism of Actions** field and select terms from the **Index**. In this example, we want to see compounds that are Cannabinoid CB1 Receptor Agonist and Cannabinoid CB2 Receptor Agonists. Use the term **AND** between the mechanism terms in the field. It will automatically appear as **OR** and you will need to change it manually to **AND**.



The results show those compounds that have been shown to act as both Cannabinoid CB1 Receptor Agonists and Cannabinoid CB2 Receptor Agonists. You can sort the results by the **Highest Phase** by clicking on the column heading.



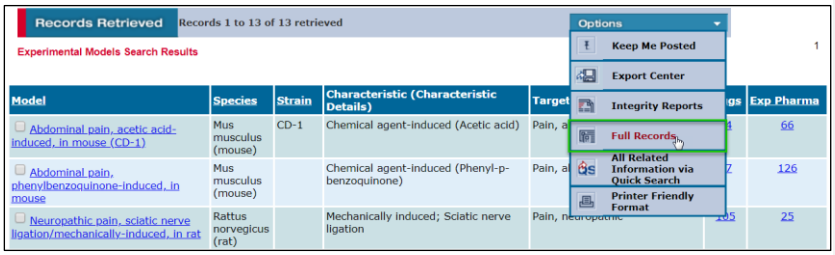
To see the **Experimental Models** that have been used in testing these compounds, open the **Options** menu and then select **All Related Information via Quick Search**.



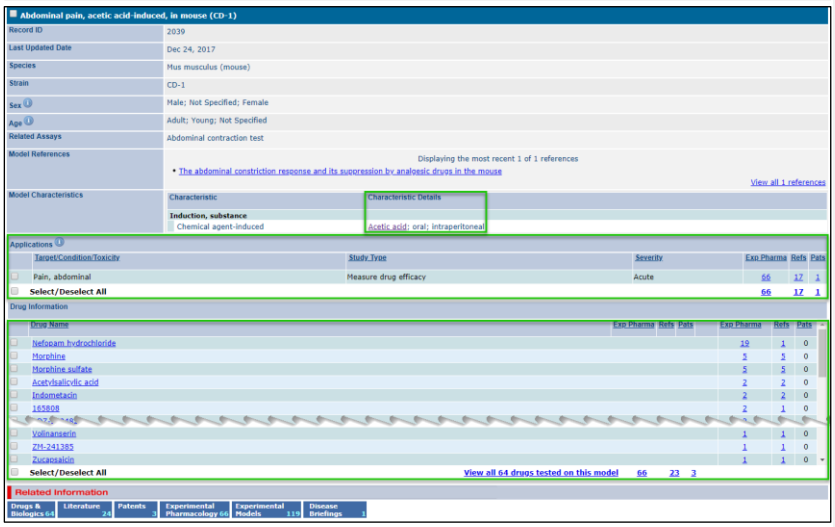
Clicking the link to the **Experimental Models** Knowledge Area displays a table of the models used in tests with the cannabinoid CB1/CB2 receptor agonists. To see only those models for pain, you should select the **Condition** filter by **Statistics chart** and from the chart select the categories that are for **Pain**.

Clarivate Analytics

Working with your data:



To see the full records, open the **Options** pulldown menu and select **Full Records**. The full record display contains information about the model and its characteristics.



Some records contain a link in the **Characteristic Details** that opens a popup window with further information about, for example, the **Inducer**.

The **Experimental Model** record shows the **Application Information** at the top. Applications are classified as Target, Condition, or Toxicity by the entry in the Study Type field: Pharmacodynamic studies, Measure drug efficacy, and Measure drug toxicity, respectively. You can link to the **Experimental Pharmacology** records, **References**, and **Patents** associated with the **Application**. At the bottom of the record you can see which drugs have been tested in the model and link through to the **Drugs & Biologics**, **Experimental Pharmacology**, **Reference**, and **Patent records**.

By clicking on the **Experimental Pharmacology** links you will see the associated data values displayed in a table.