GOBIOM Use Case 5

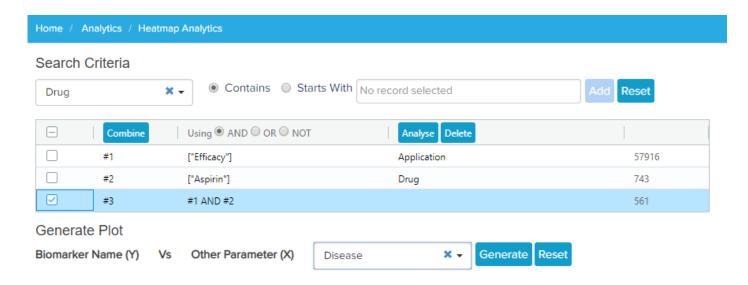# Identification of alternate uses for Aspirin in new indications

- ✓ A drug repurposing group in a major pharmaceutical company is looking at exploring the possible use of Aspirin in other indications

- ✓ The groups main objective is to assess all the efficacy biomarkers reported against Aspirin in different indications and possibly corner the indications in which most efficacy biomarkers were evaluated.

- ✓ Also, the group wants to identify which companies are actively involved in the aspirin associated clinical trials
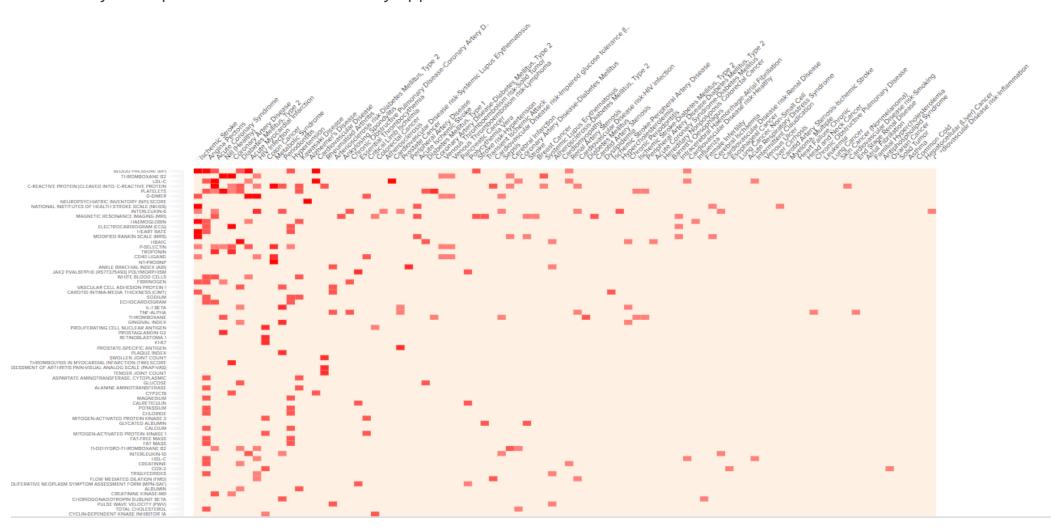
To perform the analysis, following search strategy can be adopted in GOBIOM

1. Retrieve all Efficacy biomarkers reported against Aspirin from GOBIOM database using the 'Heat map analytics' option present in the menu bar

2. Perform the interested query using the options present in 'strategy search' i.e. select 'Aspirin' by selecting 'Drug' search parameter followed by selecting 'Efficacy' in the 'Application' parameter

3. Build the search strategy by adding the parameters of interest and combine them using AND, OR, NOT options

4. Select the interested dataset and select the respective X and Y axis to display the heat map with the retrieved biomarkers by clicking on the 'Analyze' button.

Tool retrieves the Efficacy biomarkers reported against Aspirin and map them with the other indications to which they are reported for the same Efficacy application

Based on the heat maps user can gain following insights

✓ User can quickly identify the indications in which the drug has been studied, suggesting a possible therapeutic utility of the drug in these indications.

✓ Heat map analysis of top indications vis-à-vis number of biomarkers can provide insights into drug repositioning in indications other than which the drug is intended to use

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