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## GOBIOM Use Case 4



# Identification of diagnostic biomarkers evaluated in Bile duct cancer



- ✓ A diagnostic development group intends to identify diagnostic biomarkers evaluated in Bile duct cancer and study overlapping of these biomarkers across different indications
- ✓ To analyze the diagnostic biomarkers that are common between Bile duct cancer and other oncological, metabolic and cardiovascular indications
- ✓ To explore the probable role of common diagnostic markers reported in multiple indications which will enable in understanding the complex biological system and cellular networks in disease development.

To perform the analysis, following search strategy can be adopted in GOBIOM

1. Retrieve all Diagnostic biomarkers of Bile duct cancer 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 'Bile duct cancer' by selecting 'indication' search parameter followed by selecting 'diagnosis' 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.

Home / Analytics / Heatmap Analytics

### Search Criteria

Disease   Contains  Starts With

<input type="checkbox"/>	<input type="button" value="Combine"/>	Using <input checked="" type="radio"/> AND <input type="radio"/> OR <input type="radio"/> NOT	<input type="button" value="Analyze"/>	<input type="button" value="Delete"/>
<input type="checkbox"/>	#1	["Diagnosis"]	Application	47559
<input type="checkbox"/>	#2	["Bile Duct Cancer"]	Disease	69
<input checked="" type="checkbox"/>	#3	#1 AND #2		24

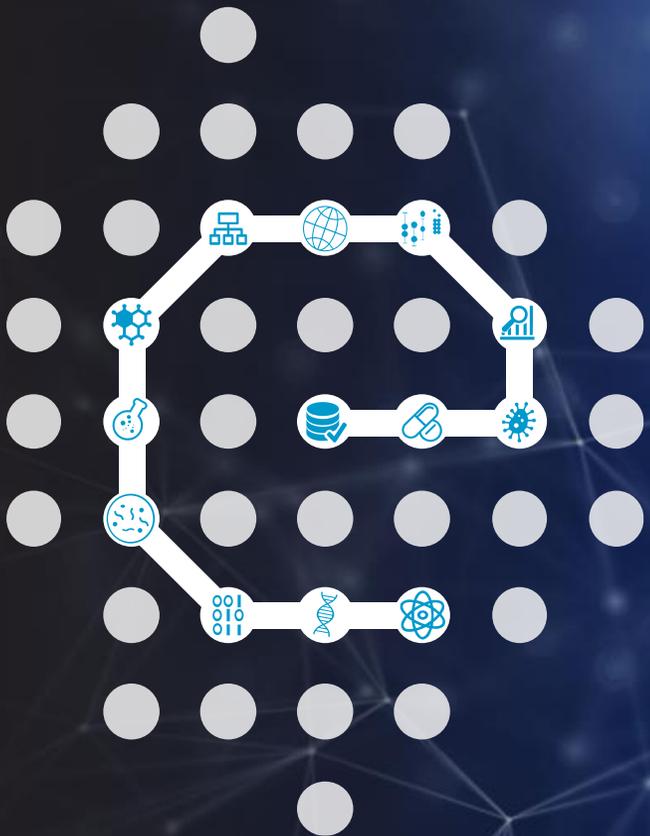
### Generate Plot

Biomarker Name (Y) Vs Other Parameter (X)



Based on the heat maps user can gain following insights

- ✓ Analyze large set of biomarkers quickly and effectively
- ✓ Visualize biomarker trends in an indication
- ✓ Evaluate and understand the role of biomarkers common between different indications
- ✓ Identification of potential and reliable biomarkers from the data set
- ✓ Identification of outliers for more accurate results



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# THANK YOU



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