GETTING STARTED: QUICK REFERENCE GUIDE FOR THE CLASSICAL USER INTERFACE

Choose which user interface you want to work with: Simplified User Interface or Classical User Interface.

If you want to use the same user interface everytime when you open the software then check Remember the choice checkbox before selecting one of the two interfaces.

⚠️ Step 1: Input - Define chemical of interest or "target chemical"

Define your target chemical by Chemical Name, CAS number, SMILES, drawing the molecule or selecting it from a list. To define a chemical by CAS number:
Click **#** → enter the number, and then click **Search** → the program displays the structure → **OK**

The structure is displayed on the data matrix.

To define the target endpoint, which will be used for the predictions click **Define**

**Step 2: Profiling - Retrieve information based on the identity of the substance or its structure**

Select profilers by ticking the corresponding boxes → **Apply**. The program establishes a "profile" of the chemical based on its structure.
To obtain the general background information on any profiler, right click on it and select **About**. To obtain the scientific information used to build the profiler, select it and click **View**.

The highlighted profiles correspond to the selected endpoint in the data matrix or to the defined target endpoint if any.
**Step 3: Endpoint** - Retrieve experimental results from the resident databases

Select databases by ticking ☑ the corresponding databases → Gather. The retrieved information is displayed according to four subsections in the endpoint tree:

![Endpoint Tree Image]

To open the data tree: left-click on the nodes. To access detailed information on the experimental results: double-click on the result in the matrix.

The highlighted databases correspond to the selected endpoint in the data matrix or to the previously defined endpoint if any.

**Step 4: Category definition** - Identify chemicals which could form a category with the "target" chemical

Select one grouping method according to the profile of your target chemical in the window **Grouping methods** → Define.

To identify the analogues of the target accounting for metabolic activation of the chemicals based on specific criteria select → Define with metabolism

To check how much relevant to a target endpoint an alert is, once the **Define (with metabolism) button** is selected then calculate the Alert performance:
To identify the subgroups within an existing category that are determined by the definitions of the currently selected profiling method

To assess the consistency of the defined category

The category consistency is endpoint specific. Three layers of information are considered important: Physicochemical similarity; Structural similarity and Mechanistic similarity.

The highlighted profiles correspond to the selected endpoint in the data matrix or to the previously defined endpoint if any.

**Step 5: Data gap filling - Predict missing data by read-across, trend analysis, QSAR models or automated/standardized workflows**

Select data gap filling by clicking in the corresponding cell in the data matrix, and then select one of the data gap filling methods:

- **Read-across**: for “qualitative” endpoints (skin sensitization or mutagenicity e.g. positive, negative, equivocal) or for “quantitative endpoints” (e.g., 96h-LC50 for fish) if only very few analogues with experimental results are identified. → [Read across]

- **Trend analysis**: for “quantitative” endpoints if many analogues with experimental results are identified. → [Trend analysis]

- **(Q)SAR models**: if no analogue with experimental results is identified or to build a weight of evidence case. → [Q SAR]

- **Standardized and Automated workflows**: once started, they follow the implemented logic and finish with prediction. They include read-across or trend
analysis method depending on the endpoint. Custom workflows can be

created, imported, exported or deleted →

**Step 6: Report** – Obtain a detailed report for your prediction or category

Four report types are available in TB 4.5. Prediction is needed for the *Prediction* report, only. →

Read across Assessment Elements could be included to the report automatically by selection of **RAAF scenario**

Four export types are also available in TB 4.5. → The Export allows exporting of various information from the current data matrix.

⚠️ Each of the above illustrated functionalities is explained in details in the F1 help file available with installation (press F1).