

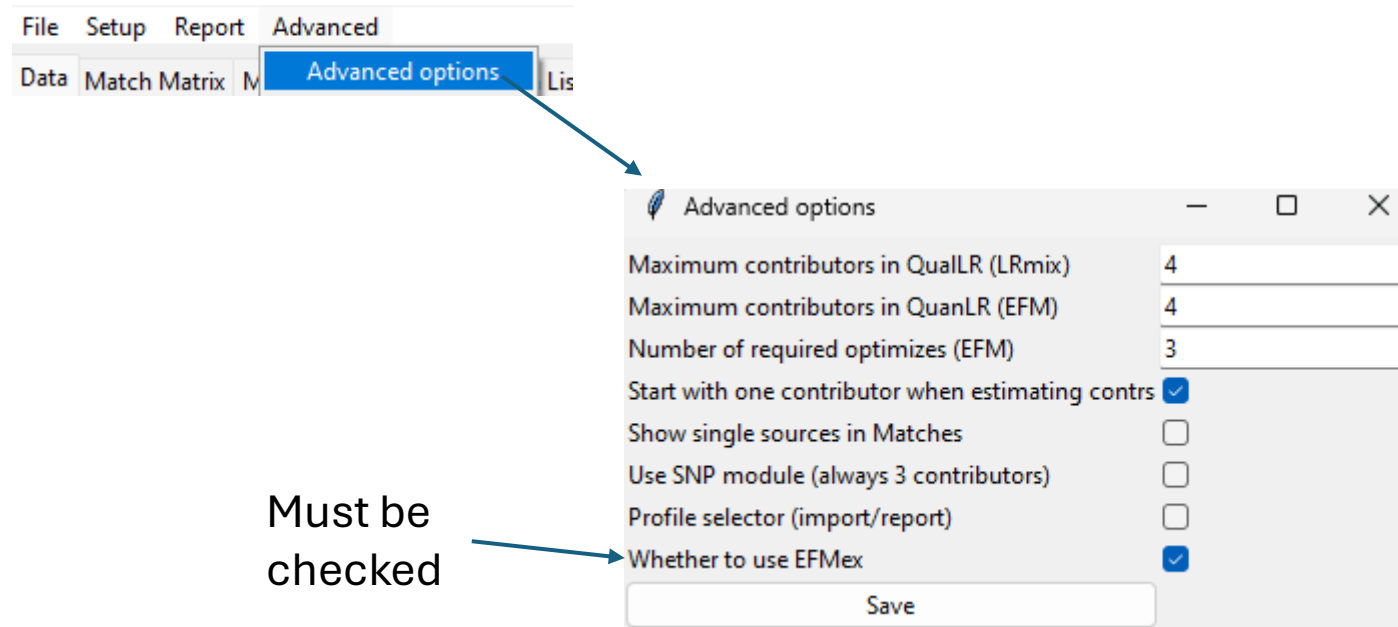
CaseSolver v2.1

Possible to use EFMex (GLR) in CaseSolver

$$LR_{GLR} = \frac{\max_{j:POI \in H_j} \hat{L}_j}{\max_{j:POI \notin H_j} \hat{L}_j}$$

By Øyvind Bleka, Des 2024

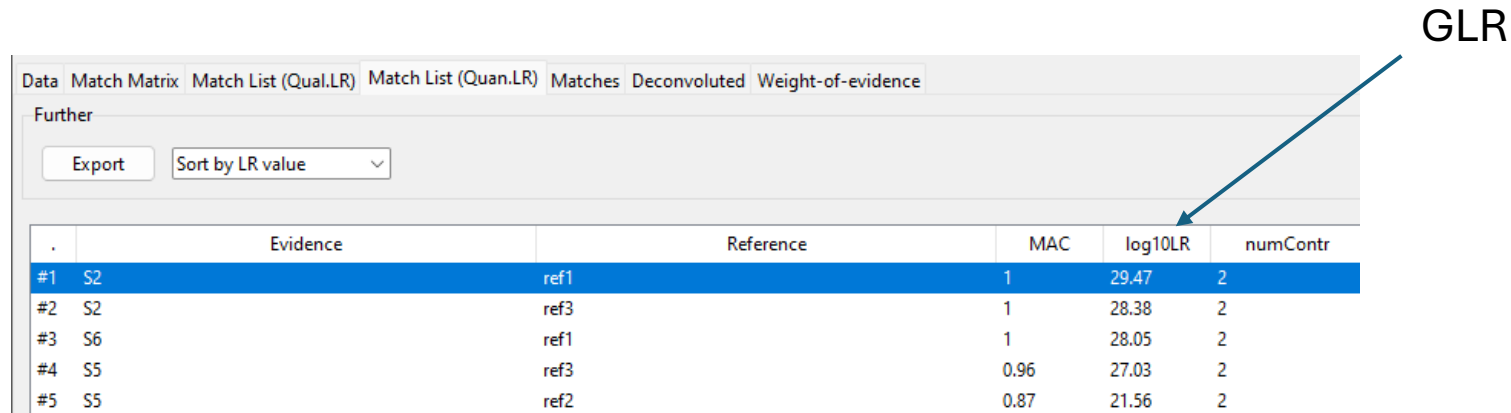
What needs to be done to activate EFMex



Affects the Quantitative calculations in two places in the program

1) Quantitative LR in «compare».

GLR



Data Match Matrix Match List (Qual.LR) Match List (Quan.LR) Matches Deconvoluted Weight-of-evidence

Further

Export Sort by LR value

.	Evidence	Reference	MAC	log10LR	numContr
#1	S2	ref1	1	29.47	2
#2	S2	ref3	1	28.38	2
#3	S6	ref1	1	28.05	2
#4	S5	ref3	0.96	27.03	2
#5	S5	ref2	0.87	21.56	2

The GLR of Reference:

- Executed when multiple references are evaluated for a given Evidence
- Becomes same as before if only one reference is evaluated.

Double-clicking the line will give:

- «Expected PH-plot» for the **most likely hypothesis** under H_p
- Hence other references may show up together with Reference if they fit well

2) WoE hypothesis specification window

Hypothesis window for weight of evidence

Add hyp. set Select all Unselect all Evaluate

CONS: Select all Unselect all Uncondition all

Set	Evid(s)	POI	Cond(s)	NOC	CONS
<input checked="" type="checkbox"/> #1	S6	ref1	None	2	<input type="checkbox"/>
<input checked="" type="checkbox"/> #2	S2	ref1++	None	2	<input type="checkbox"/>
<input checked="" type="checkbox"/> #3	S5	ref3++	None	2	<input type="checkbox"/>

ref1
ref3

Multiple references can be assigned under POI. This executes the EFMex calculations (based on GLR)

Conditioning is still possible as before

Hover button to see which are the multiple POIs

Note: The hypothesis window is automatically filled with multiple POIs if the EFMex option is chosen.