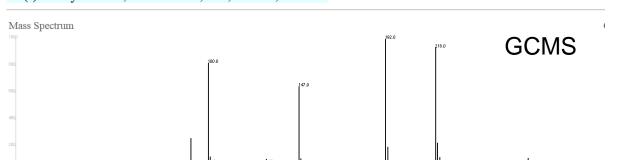
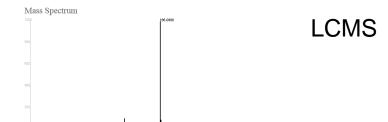




- Why using a specific tool for processing GC-MS data?
  - GC-MS data have their own specificity
    - First one is higer amount of ions in a mass spectra with El compared to ESI



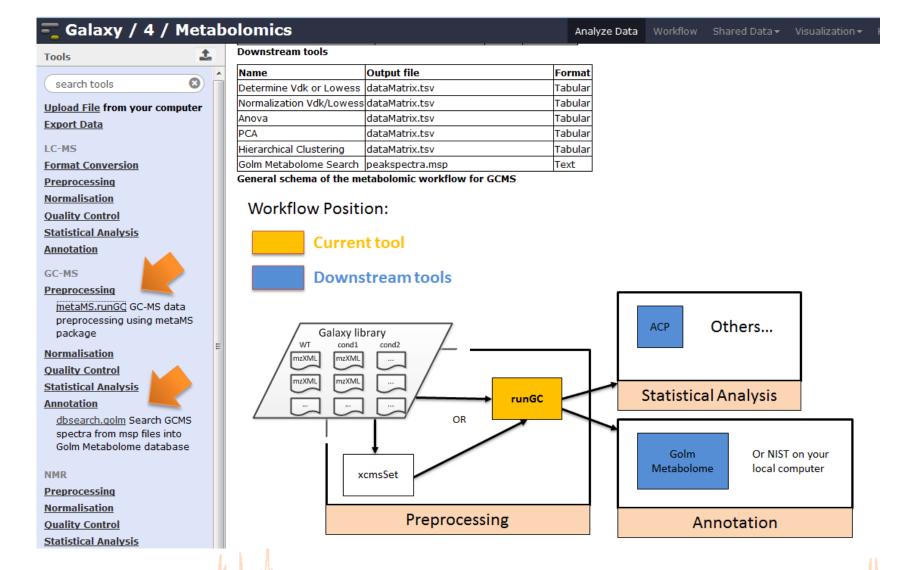




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L-(-)-Phenylalanine; GC-EI-TOF; MS; 2 TMS; BP:192





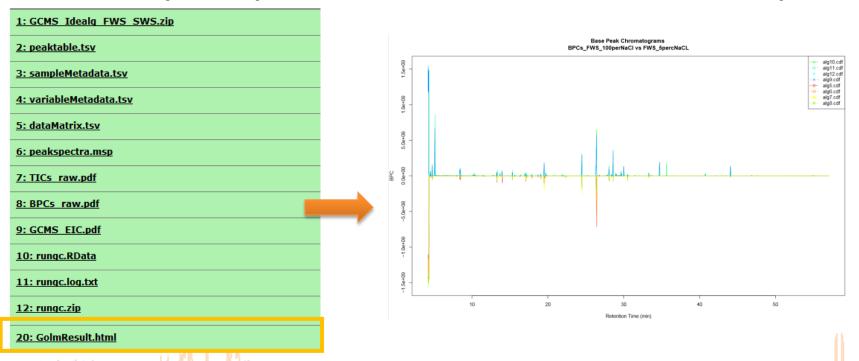
warren with the



 In fine that tool use xcms/CAMERA under metaMS R package from R. Wehrens

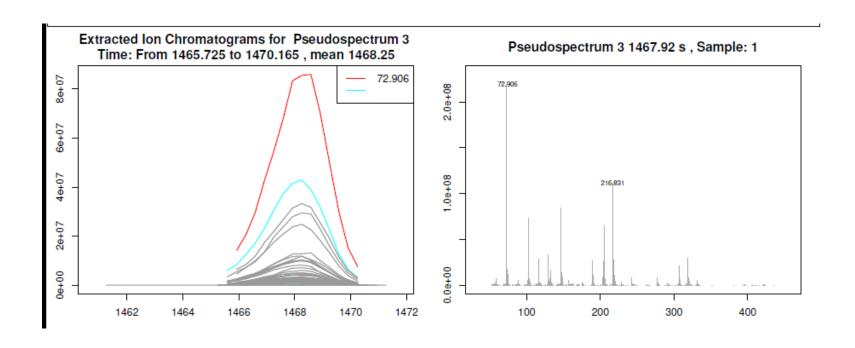
metaMS: Wehrens, R.; Weingart, G.; Mattivi, F. Journal of Chromatography B.

with adapted parameters and dedicated outputs





9: GCMS EIC.pdf



Peakpicking/grouping quality control

merry all the all

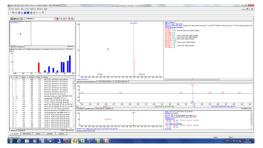


#### 6: peakspectra.msp





A MSP export of pseudospectras readable by NIST or Golm Metabolome



NIST MSsearch

#### 20: GolmResult.html

cname	analyteName	ri	DotproductDistance	EuclideanDistance	HammingDistance	JaccardDistance	s12GowerLegend
	Citric acid (4TMS)	1803.92065	0.01	0.01	15	0.28	0.4
	Isocitric acid (4TMS)	1805.39966	0.04	0.01	109	0.74	0.71
	Gluconic acid (6TMS)	1984.52283	0.11	0.02	85	0.82	0.82
	Malic acid, 3-oxalo- (1MEOX) (4TMS) BP	2200	0.12	0.02	868	0.96	0.89
	Galactaric acid (6TMS)	2030.46814	0.12	0.02	461	0.92	0.85
	Arabinoheptulosonic acid enol, 3-deoxy- (5TMS) MP	1926.63843	0.11	0.02	499	0.92	0.85
	Malic acid, 3-oxalo- (1MEOX) (4TMS) MP	2190.4812	0.12	0.02	478	0.93	0.87
	myo-Inositol-1-phosphate (7TMS)	2414.291	0.12	0.02	403	0.92	0.85

http://web11.sb-roscoff.fr/download/w4m/howto/w4m\_HowToUseNIST\_V01.pdf

mercely with the

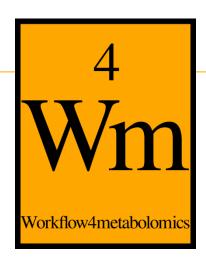


- Then go to other databases with the .MSP file
- Or go to statistical analysis with

3: sampleMetadata.tsv
4: variableMetadata.tsv

5: dataMatrix.tsv

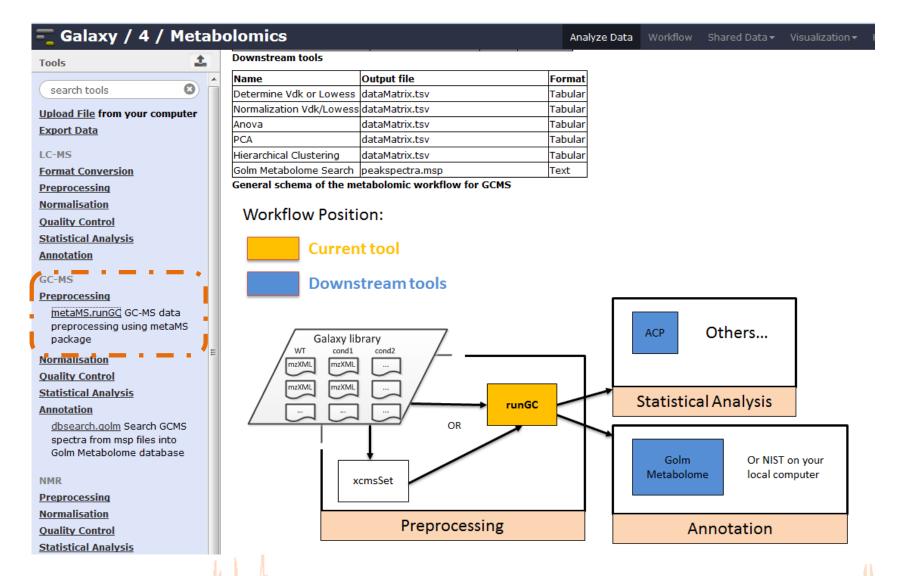
mrum mulle



#### **HOW TO**

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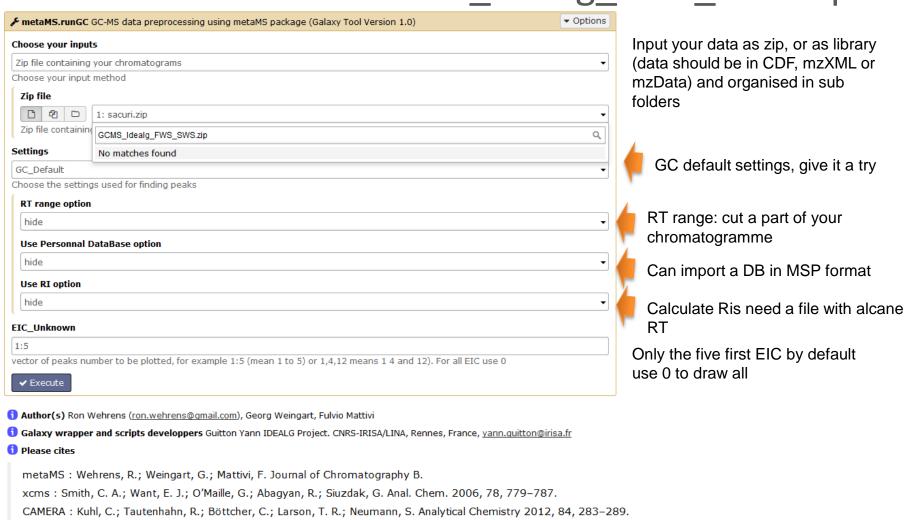




warren with the

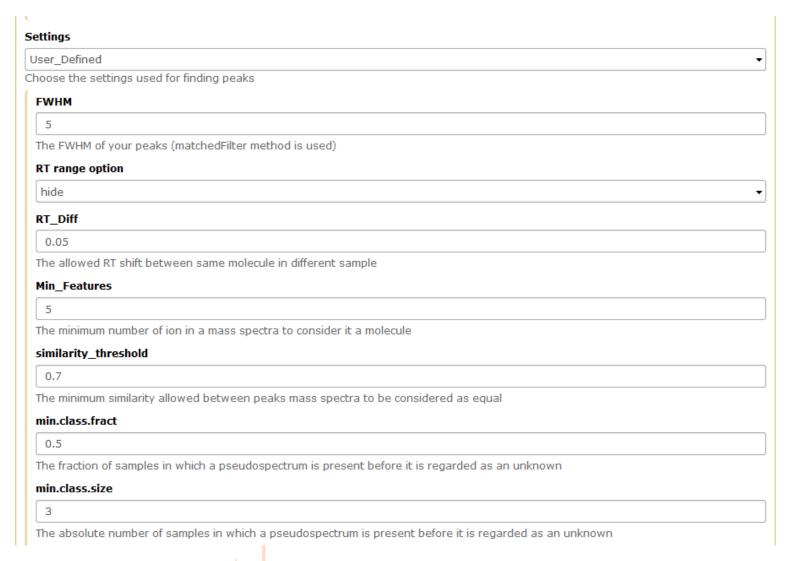


Can be tested with GCMS\_Idealg\_FWS\_SWS.zip



more realizable meller than the

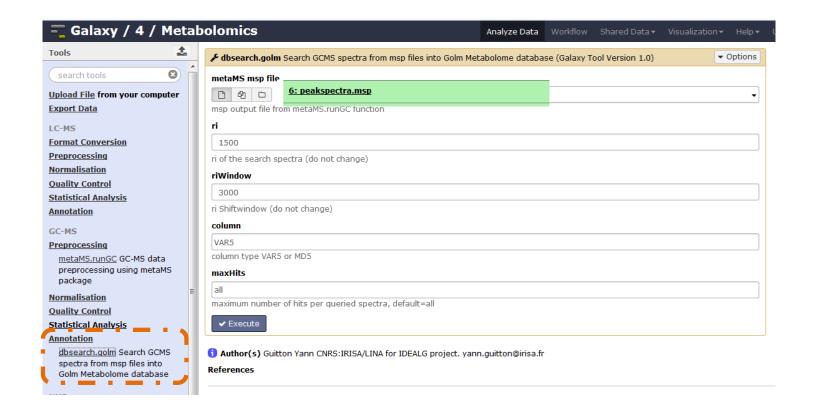




In fact all are xcms/CAMERA parameters

when we were





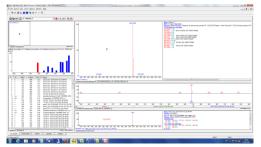


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**NIST MSsearch** 

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http://web11.sb-roscoff.fr/download/w4m/howto/w4m\_HowToUseNIST\_V01.pdf

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# Thanks!

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