# **DO-MS-Processing**

Release 1.0

**Georg Wallmann** 

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#### **COMMAND LINE USAGE**

Command line tool for feature detection in shotgun MS experiments. Can be used together with DIA-NN to provide additional information on the peptide like features identified in the MS1 spectra.

#### 1.1 Positional Arguments

**report** Path pointing to report.tsv output from DIA-NN.

Default: /home/runner/work/DO-MS-DIA/DO-MS-DIA/docs

### 1.2 options

**--raw-parser-location** Path pointing to the ThermoRawFileParser executeable.

**--dinosaur-location** Path pointing to the dinosaur jar executeable.

**-m, --mono** Use mono for ThermoRawFileParser under Linux and OSX.

Default: False

-d, --delete Delete generated mzML and copied raw files after successfull feature generation.

Default: False

**-v, --verbose** Show verbose output.

Default: False

-t, --temporary-folder Input Raw files will be temporarilly copied to this folder. Required for use with

Google drive.

**-r, --raw-file-location** By default, raw files are loaded based on the File.Name column in the report.tsv.

With this option, a different folder can be specified.

Default: ""

**--no-feature-detection** All steps are performed as usual but Dinosaur feature detection is skipped. No

features.tsv file will be generated.

Default: False

**--no-fill-times** All steps are performed as usual but fill times are not extracted. No fill\_times.tsv

file will be generated.

Default: False

**--no-tic** All steps are performed as usual but binned TIC is not extracted. No tic.tsv file

will be generated.

Default: False

**--no-sn** Signal to Noise ratio is not estimated for precursors

Default: False

--no-mzml-generation Raw files are not converted to .mzML. Nevertheless, mzML files are expected

in their theoretical output location and loaded. Should be only be carefully used

for repeated calulcations or debugging

Default: False

**--mz-bin-size** Bin size over the mz dimension for TIC binning.

Default: 10.0

**--rt-bin-size** Bin size over the RT dimension for TIC binning in minutes. If a bin size of 0 is

provided, binning will not be applied and TIC is given per scan.

Default: 1

**--resolution** Set the resolution used for estimating counts from S/N data

Default: 70000

**-p, --processes** Number of Processes

Default: 10

**--isotopes-sn** Use all isototopes from the same scan as the highest intensity datapoint for esti-

mating the SN and copy number.

Default: False

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## **INTEGRATION WITH SEARCH PIPELINES**