## MASST Web Interface Tutorial

1) Paste M/Z value and spectrum peaks. Enter other information and click on "MASST Molecule".

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GNPS Classic MASST foodMASST	MASST+ microbeMASST Documentation	
	GNPS MASST	
	This interface enables you to search a single M spectrum against public GNPS spectral libraries public MS/MS datasets. Find exactly in what co your molecule has been previously observed.	S/MS and all texts
Search Parameters	Spectrum Peaks	Reporting Information
Minimum Cosine Score	Precursor M/Z	Analysis Description
0.7	337.155	Cyclopiazonic acid
Minimum Matched Peaks	Peaks	Email address
6	30.033323 207.030106	icarbon@ncsu.edu
Parent Mass Tolerance	41.037846 1098.494019 42.033474 622.983582	GNPS Login
2.0	43.017254 3939.47998 43.053467 804.571411	GNPS Username (optional)
Fragment Mass Tolerance	53.037067 142.545105	GNPS Password
0.5	55.053783 463.353699	GNPS Password (optional)
Analog Search	57.056606 226.688507 58.065262 1169.906006	
No	67.017197 4984.604004 67.053978 215.108902	
Public Databases to Search	01000070 210.100902	h.
Non-redundant MS/MS	~	
		<b>— 4</b>
Populate Demo	MASST Molecule	

2) Monitor progress of MASST run.

← → C	edu/ProteoSAFe/status.jsp?task=1582659f1e5d49519f2c2aa93dc03f6d	:
Back t	to main page	
2 doL	Status	
Statu	Glow         SEARCH_SINGL_SPECTRUM (version release_29)           Is         Clone] [Clone to Latest Version]	
User	quickstart_GNPS (ccms.web@gmail.com)	
Title	Cyclopiazonic acid	
Date Crea	ted 2023-05-20 09:10:54.0	
Exec Time	ution 2 minutes 58 seconds	
Prog	ress	
Spec Libra	specilibs/CASAW.SIK-KANG-LEGACY-LIBRARY/GNPS-SAM-SIK-KANG-LEGACY-LIBRARY.mgf specilibs/CASAW/CASAW.mgf specilibs/CASAW/CASAW.CASAW.CASAW.CASAW.SIK-KANG-LEGACY-LIBRARY.mgf specilibs/CASAW/CASAW.CASAW	

3) Click on "Dataset Matches".

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GNPS:	Global Natural Products Social Molecular Networking		ЮН				
Back to main pa	8¢						
Job Status							
Workflow	SEARCH_SINGLE_SPECTRUM (version release_29)						
	DONE [Clone] [Clone to Latest Version]						
	[ <u>View All Library Hits</u> ]						
	Community Matches [Dataset Matches]						
	Methods and Citation for Manuscripts [Workflow Written Description]						
Status	Reanalyze Files Found [ Analyze Files Found With Molecular Networking ]						
	Foodomics Specific Analysis [ View Foodomics Specific Molecules   View Matched Files   View Interactive Tree   Download Tree.(ison)   Download Tree.(H	<u>TML)</u> ]					
	Export/Download Network Files [ <u>Download Cytoscape Data</u> ]						
	Advanced Views - External Visualization [ Direct Cytoscape Preview/Download ]						
User	quickstart_GNPS (ccms.web@gmail.com)						
Title	Cyclopiazonic acid						
Re-Analyze Task Outputs	Import to Re-analyze Task Data						
Date Created	2023-05-20 09:10:54.0						
Execution Time	20 minutes 29 seconds						
Progress	(app. plane, app. plane) (app. plan	end					
L			_				

4) Click on "View File Matches".

Back to main page Back to status page Download

Cycloptack acid 44 Hits 1 - 6 out of 6 H Go to Go									
Apply Filters	View Dataset 🌻	Title 🗘	Description 🌻	Organisms 🌲	Cosine Score 🖨	Matched Peaks 🖨	MZ Delta 🌻	NumFiles 🌲	View File Matches in GNPS 韋
Filter By:						<b></b> -			
View Mirror Match USI Links 1	View MSV000086604	GNPS Chemodiversity in Aspergillus section Flavi	Show	Aspergillus sp. (NCBITaxon:5065)	0.92	14	0.00	14	View File Matches
View Mirror Match USI Links 2	View MSV000085858	GNPS Streptomyces scabiei 87.22 MYMm/YMSm/OBA positive and negative ionization mode	Show	Streptomyces scabiei 87.22	0.78	10	0.91	4	View File Matches
View Mirror Match USI Links 3	<u>View</u> <u>MSV000085360</u>	GNPS - 15_fungal isolates_bioconversion_EGCG	(Show)	Eurotum cristatum (VEGITaxon:141): (Lidadoportum tenuissimum (VEGITaxon:7008);Penicilium sp. (VEGITaxon:7008);Penicilium xaalkum (VEGITaxon:505);Caldoportum sp. (VEGITaxon:5055);Caldoportum sp. (VEGITaxon:5056);Caldoportum sp. (VEGITaxon:5061);Trametes hirsuta (VEGITaxon:5061);Trametes hirsuta (VEGITaxon:531);Penicilium steckii (VEGITaxon:531);Penicilium steckii (VEGITaxon:531);Penicilium steckii	0.75	6	0.00	7	View File Matches
View Mirror Match USI Links 4	View MSV000084595	GNPS - Comparative genomics metabolomics analysis of Streptomyces species	Show	Streptomyces	0.73	10	0.11	39	View File Matches
View Mirror Match USI Links 5	View MSV000079098	GNPS_Cichewicz_Fungi_Collection		Fungi (NCBITaxon:4751)	0.72	8	0.00	3	View File Matches
View Mirror Match USI Links 6	View MSV000088455	GNPS_QINGLIN Fungi_20211126_Molecular networking parameters	Show	Fungi (NCBITaxon:4751)	0.70	10	0.00	1	View File Matches

5) Download tab-delimited MASST results file (.tsv).

		Back to main	n page Back to status page	Download		
			Downloa Include	ad Option:  Tab-Delimited Result Only Entries:  Filtered  All Download		
Cyclopiazonic acid Select columns	Hits 1 ~ 14 out of 14	Go to	Go			
Apply Filters	dataset_id 🗢	dataset_scan ≑	filename ≑		View Metadata 鏱	View Chromatogram (Beta) 🌲
Filter By:	MSV000086604					
1	MSV000086604	N/A	f.MSV000086604/ccms_peak/Gr	oup 1/sk1928.mzML	View Metadata	View LCMS
2	MSV000086604	N/A	f.MSV000086604/ccms_peak/Gr	oup 1/sk1927.mzML	View Metadata	View LCMS
3	MSV000086604	N/A	f.MSV000086604/ccms_peak/Gr	roup2/sk1926.mzML	View Metadata	View LCMS
4	MSV000086604	N/A	f.MSV000086604/ccms_peak/Gr	oup 1/sk1925.mzML	View Metadata	View LCMS
5	MSV000086604	N/A	f.MSV000086604/ccms_peak/Gr	roup2/sk1923.mzML	View Metadata	View LCMS
6	MSV000086604	N/A	f.MSV000086604/ccms_peak/Gr	roup2/sk1919.mzML	View Metadata	View LCMS
7	MSV000086604	N/A	f.MSV000086604/ccms_peak/Gr	oup 1/sk1915.mzML	View Metadata	View LCMS
8	MSV000086604	N/A	f.MSV000086604/ccms_peak/Gr	oup 5/sk1895.mzML	View Metadata	View LCMS
9	MSV000086604	N/A	f.MSV000086604/ccms_peak/Gr	oup 1/sk1891.mzML	View Metadata	View LCMS
10	MSV000086604	N/A	f.MSV000086604/ccms_peak/Gr	oup 1/sk1890.mzML	View Metadata	View LCMS
11	MSV000086604	N/A	f.MSV000086604/ccms_peak/Gr	oup 1/sk1889.mzML	View Metadata	View LCMS
12	MSV000086604	N/A	f.MSV000086604/ccms_peak/Gr	oup 6/sk1888.mzML	View Metadata	View LCMS
13	MSV000086604	N/A	f.MSV000086604/ccms_peak/Gr	oup 1/sk1885.mzML	View Metadata	View LCMS
14	MSV000086604	N/A	f.MSV000086604/ccms_peak/Gr	oup 4/sk1880.mzML	View Metadata	View LCMS