

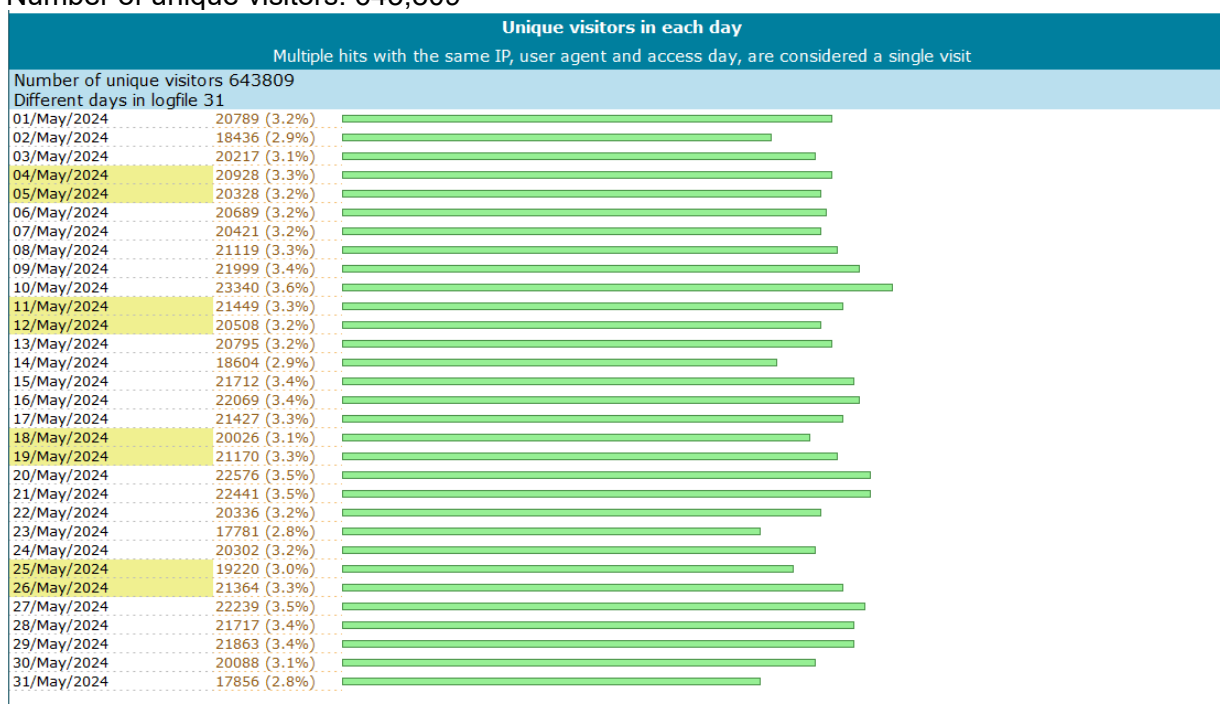
## Access and Use Statistics and FAIR metrics on Metabolomics Workbench (MW)

**Approach:** We used both custom analysis of apache logs and Visitors tool (<http://www.hping.org/visitors/>) on combined access\_log and ssl\_access\_log. vsftpd log was analyzed separately.

Access and use statistics are based on analysis of the log over about one month (May 2024, unless indicated otherwise). Access by web crawlers, bots, etc., has been excluded from the beginning of the analysis (see IP Exclusion List 1 at the end).

### Overall access to the MW website

Number of unique visitors: 643,809



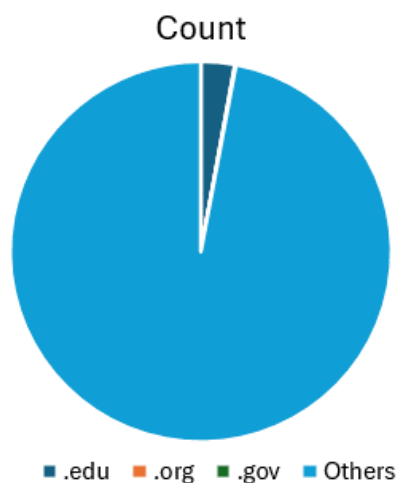
### Country-based access statistics

From the IP addresses, hostname and their geographical location (country) is identified and summarized.

This is after excluding additional IP addresses (in R script) with 'bot', 'spider', etc., in their hostnames (see IP Exclusion List 2 at the end): top 30 countries:

Country_short	Country_long	Count
US	United States of America	5819141
SG	Singapore	1555910
GB	United Kingdom of Great Britain and Northern Ireland	432705
NL	Netherlands	409596
FR	France	172014
IN	India	105178
CA	Canada	82527
FI	Finland	76030
DE	Germany	62417
CN	China	46343
RO	Romania	38859
ES	Spain	23525
HK	Hong Kong	21064
UA	Ukraine	19211
CH	Switzerland	17966
KR	Korea (Republic of)	15612
AU	Australia	15497
NO	Norway	14918
CZ	Czechia	13868
TW	Taiwan (Province of China)	13484
IE	Ireland	12480
IT	Italy	10628
SE	Sweden	9645
HU	Hungary	7129
SK	Slovakia	4971
GR	Greece	3667
JP	Japan	3518
ID	Indonesia	3455
MX	Mexico	3296
BR	Brazil	3253

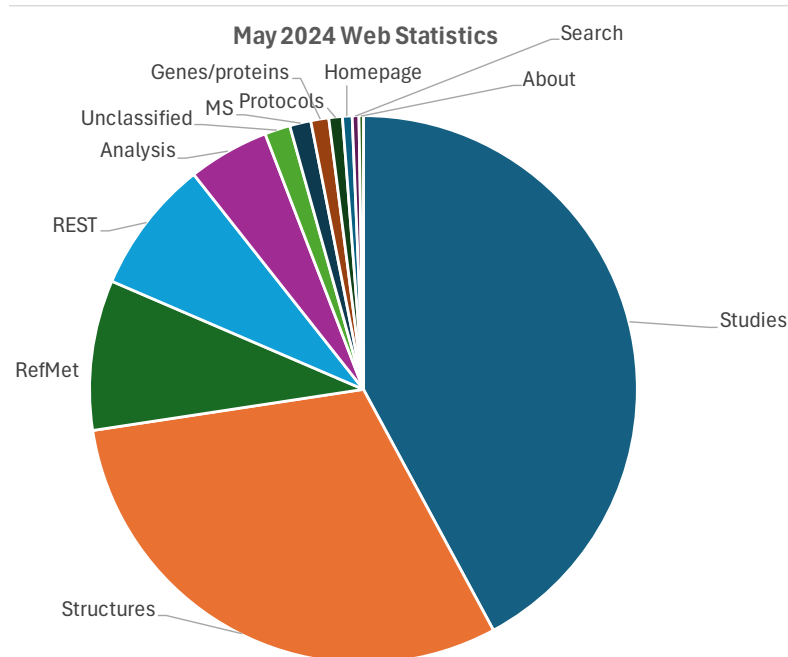
Category	Count	Percent
.edu	198889	2.200
.org	20859	0.231
.gov	712	0.008
Others	8820836	97.562



### Resource types (Major categories)

Category	May 2024 Web Statistics (31 days)	Hits per day
Studies	3838335	123817
Structures	2776744	89572
RefMet	807515	26049
REST	720421	23239
Analysis	436476	14080
Unclassified	137109	4423

MS	114110	3681
Genes/proteins	96574	3115
Protocols	72699	2345
Homepage	51876	1673
Search	36098	1164
About	23761	766



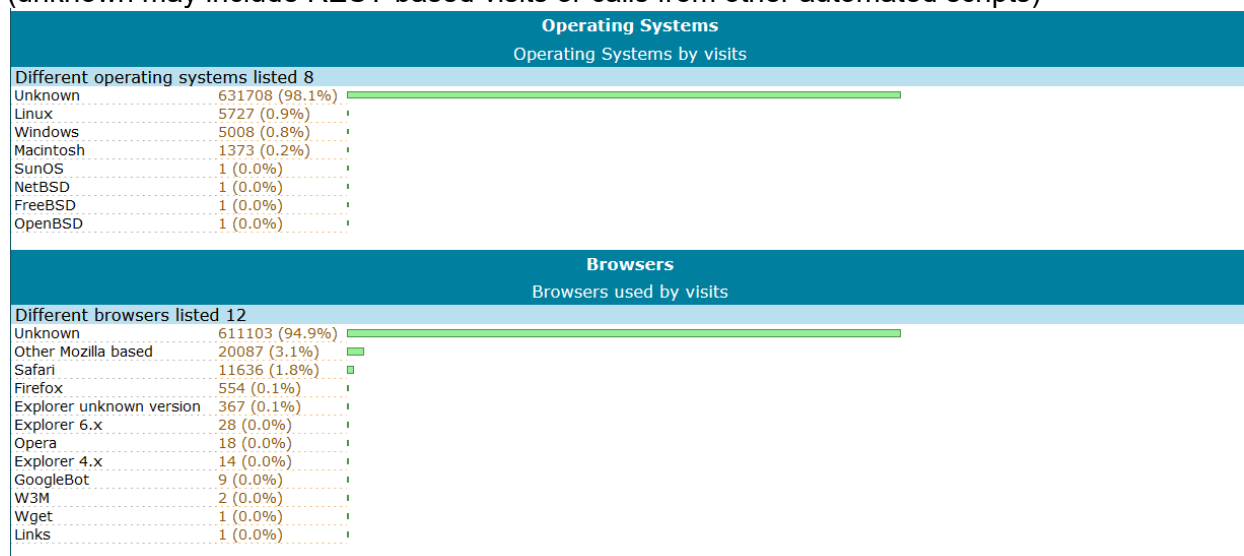
### Top page hits over May 2024:

Type of page	End-point	Count
Studies	/data/DRCCMetadata.php	3207893
Statistical analysis	/data/metabolite_id_show.php	2057320
Studies	/rest/study	489484
REFMET	/databases/refmet/refmet.php	362747
REFMET	/databases/refmet/name_to_refmet_new_min.php	272421
Structure data	/data/StructureData.php	254977
Statistical analysis	/data/show_metabolite_data_by_factors.php	195472
REFMET	/rest/refmet	141814
REFMET	/databases/refmet/refmet_details.php	136562
Archive	/data/show_archive_contents_json.php	125428
Pathways	/data/show_h_pathway_metabolites2.php	123794
Massbank	/data/massbank.php	107433

REST	/rest/protein	82640
General	/data/png_display_inline2.php	80522
Studies	/data/study_textformat_view.php	72692
Metabolites	/data/show_metabolites_by_study.php	55326
Structure data	/data/molfile_show.php	52568
Pathways	/data/show_h_pathway_metabolites_reactome.php	51980
General	/homepage	51876
Study summary	/data/DRCCStudySummary.php	51436
Metabolite-Gene	/databases/proteome/MGP_detail.php	49615
Pathways	/data/show_h_pathway_metabolites.php	41544
Metabolite-Gene	/databases/proteome/MGP_table.php	41531
MetStat	/data/metstat_hist.php	39087
Protocols	/protocols/protocoldetails.php	34192
Statistical analysis	/data/showfile_t.php	32914
Studies	/data/study_textformat_list.php	32646
Statistical analysis	/data/ttest1_grid.php	29574
Files	/data/file_extract_7z.php	29294
Statistical analysis	/data/metstat_studies.php	29052

## OS and browsers

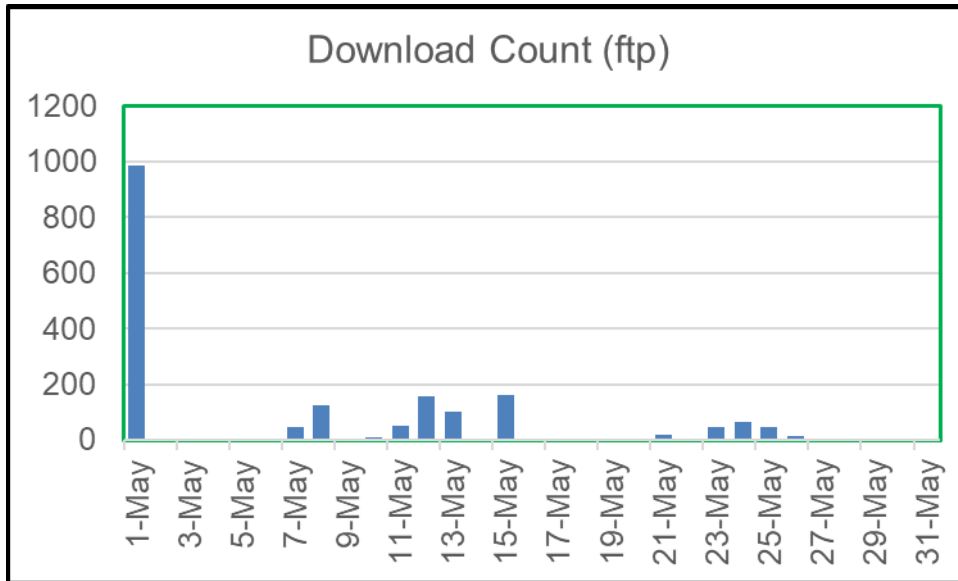
(unknown may include REST-based visits or calls from other automated scripts)



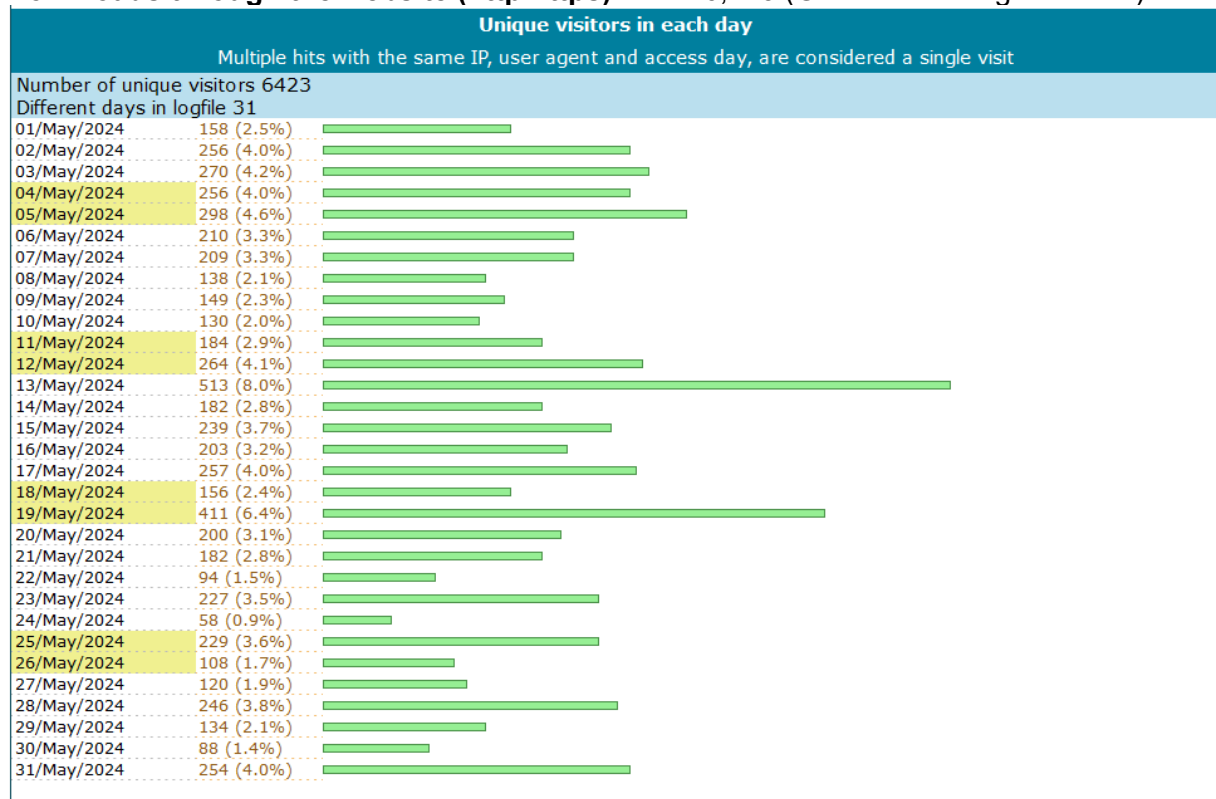
## Download statistics

Amount of total data downloaded (http + ftp): about 56 TB

**FTP-based downloads: Total 1861**



**Downloads through the website (http/https): Total 6,423 (Generated using "Visitors")**



**Top 20 downloads requested:**

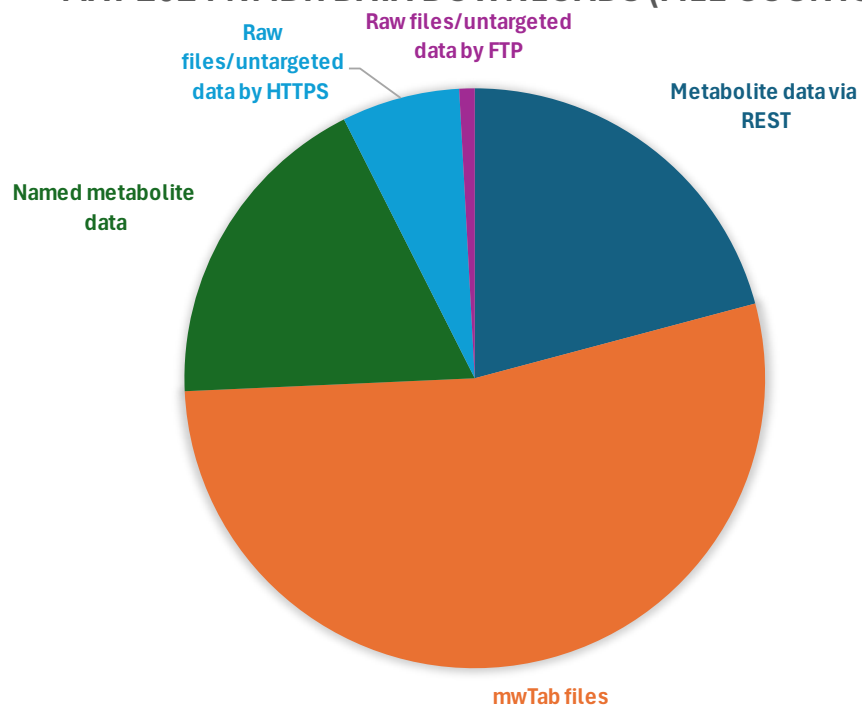
Requested pages		
Page requests ordered by hits		
Different pages requested 3507		
1)	53	/studydownload/ST000923_AN001514_Results.txt
2)	53	/studydownload/ST000946_AN001552_Results.txt
3)	52	/studydownload/ST000923_AN001513_Results.txt
4)	45	/studydownload/ST000919_AN001506_Results.txt
5)	36	/studydownload/ST003159_AN005181_Results.txt
6)	31	/studydownload/ST000746_AN001169_Results.txt
7)	27	/studydownload/ST001357_AN002260_Results.txt
8)	24	/studydownload/ST001357.tar.gz
9)	22	/studydownload/ST000884_AN001441_Results.txt
10)	20	/studydownload/ST002819_MDRD_Metabolon.xlsx
11)	19	/studydownload/ST000923_AN001516_Results.txt
12)	19	/studydownload/ST000867_Results_combined_GCMS_LCMS_Data.xlsx
13)	19	/studydownload/ST001000_AN001632_Results.txt
14)	17	/studydownload/ST003124_AN005119_Results.txt
15)	17	/studydownload/ST003159_AN005182_Results.txt
16)	17	/studydownload/ST000923_AN001515_Results.txt
17)	17	/studydownload/ST002773_AN004513_Results.txt
18)	16	/studydownload/ST002773_AN004514_Results.txt
19)	16	/studydownload/ST003004_AN004935_Results.txt
20)	15	/studydownload/ST003092_AN005061_Results.txt

### Mode of download (May 2024)

Unlike the filtering for other statistics, these are based on the entire log for May 2024 (without excluding bots, spiders, etc).

Type	May 2024 NMDR Data downloads (file counts)
Metabolite data via REST	46786
mwTab files	119901
Named metabolite data	41007
Raw files/untargeted data by HTTPS	14769
Raw files/untargeted data by FTP	1920

## MAY 2024 NMDR DATA DOWNLOADS (FILE COUNTS)



**Access statistics of our GitHub page for Jupyter notebooks repository (covers 1/1/2024 – 4/9/2024)**

<https://github.com/metabolomicsworkbench/jupyter-notebooks>

Views:

- Unique: 78
- Total: 365

Clones:

- Unique: 13
- Total: 13

Referrers

- Google:
  - Unique: 53
  - Total: 196
- metabolomicsworkbench.org
  - Unique: 63
  - Total: 403

Accesses By Path (not complete)

Path	Unique	Total
/blob/master/jupyter-notebooks-on-metabolomics-cloud.pdf	6	12
/blob/master/MWPerformClusteredHeatMapAnalysis.ipynb	16	54
/blob/master/MWPerformDataNormalization.ipynb	41	86
/blob/master/MWPerformLinearDiscriminantAnalysis.ipynb	4	10
/blob/master/MWPerformPartialLeastSquaresDiscriminantAnalysis.ipynb	6	12
/blob/master/MWPerformPrincipalComponentAnalysis.ipynb	7	14
/blob/master/MWPerformRandomForestAnalysis.ipynb	8	24
/blob/master/MWPerformRelativeLogAbundanceAnalysis.ipynb	5	10
/blob/master/MWPerformVolcanoPlotAnalysis.ipynb	24	66
/blob/master/MWPlotNamedMetabolitesResultsExample.ipynb	19	50
/blob/master/MWRestAPICompoundDataExample.ipynb	6	16
/blob/master/MWRestAPIExactMassDataExample.ipynb	2	4
/blob/master/MWRestAPIGeneDataExample.ipynb	11	36
/blob/master/MWRestAPIOverZDataExample.ipynb	2	4
/blob/master/MWRestAPINamedMetabolitesResultsExample.ipynb	15	50
/blob/master/MWRestAPIRefMetDataExample.ipynb	8	16
/blob/master/MWRestAPIStudyDataExample.ipynb	7	20
/blob/master/MWSampleData1.csv	4	16
/blob/master/MWSampleData2.txt	1	2
/blob/master/MWUtil.py	4	12
/blob/master/README.md	3	8

<https://github.com/metabolomicsworkbench/MetENP>

Views:

- Unique: 85
- Total: 524

Clones:

- Unique: 57
- Total: 60

Referrers



- bdcw.org
  - Unique: 4
  - Total: 6
- biorxiv.org
  - Unique: 57
  - Total: 181
- Google:
  - Unique: 296
  - Total: 1165
- metabolomicsworkbench.org
  - Unique: 141
  - Total: 418

Accesses By Path (not complete)

Path	Unique	Total
MetENP	116	245
MetENP/blob/main/README.md	7	22
MetENP/blob/main/vignettes/Case%20study%201_%20Study%20ST000915.html	6	16
MetENP/blob/main/vignettes/MetENP_ST001256.ipynb	1	4
MetENP/blob/main/vignettes/MetENP_vignette_Jupyter_notebook.ipynb	4	10
MetENP/tree/main	7	33
MetENP/tree/main/data	3	22
MetENP/tree/main/inst/extdata	1	2
MetENP/tree/main/R	19	128
MetENP/tree/main/vignettes	23	155

<https://github.com/metabolomicsworkbench/MetENPAppyter>

Views:

- Unique: 4
- Total: 6

Clones:

- Unique: 5
- Total: 5

Referrers

- Google:
  - Unique: 4
  - Total: 4

Accesses By Path (not complete)

Path	Unique	Total
MetENPAppyter	7	8
MetENPAppyter/tree/main/MetENP_R/MetENP	2	4

The number of accesses to the Jupyter/Binder entry page at:




<https://www.metabolomicsworkbench.org/data/AnalyzeUsingJupyterNotebooks.php>

The number of hits to the entry page is low- about 20 per week. This doesn't necessarily mean that users are clicking on the external Binder/Github links on this page, though.

## FAIRShake metrics

Pre-calculated stats on MW: <https://fairshake.cloud/project/85/assessments/>

### Project Assessments (6697)


Assessment			Metrics								
Target	Rubric		Globally unique identifier	Persistent identifier	Machine-readable metadata	Standardized metadata	Resource identifier in metadata	Resource discovery through web search	Open, Free, Standardized Access protocol	Protocol to access restricted content	Persistence of resource and metadata
Fatb Induction Experiment (FatBIE)	FAIR metrics by fairmetrics.org		no (0.00)	no (0.00)	yes (1.00)	yes (1.00)	yes (1.00)	yes (1.00)	yes (1.00)		no (0.00)
Intestinal Samples II pre/post transplantation	FAIR metrics by fairmetrics.org		no (0.00)	no (0.00)	yes (1.00)	yes (1.00)	yes (1.00)	yes (1.00)	yes (1.00)		no (0.00)
Metabolomic analysis of mouse embryonic fibroblasts, embryonic stem cells, and induced pluripotent stem cells	FAIR metrics by fairmetrics.org		no (0.00)	no (0.00)	yes (1.00)	yes (1.00)	yes (1.00)	yes (1.00)	yes (1.00)		no (0.00)

Apparently, the FAIRshake tool that generated the above statistics is not fully mature and requires manual curation. MW uses document object identifiers (DOI) for the projects, which is included (referred to as Persistent Identifier) in the metadata submitted to the CFDE portal. Through the DOI, one can access all the publicly available data on the MW website.

[https://fairshake.cloud/digital\\_object/6578/assessments/](https://fairshake.cloud/digital_object/6578/assessments/)

Tags: NIHcommonfund

## Digital Object Assessments (1)

Assessment			Metrics								
Rubric	Project		The repository provides contact information for staff to enable users with questions or suggestions to interact with repository experts.	Tools that can be used to analyze each dataset are listed on the corresponding dataset pages.	The repository maintains licenses to manage data access and use.	The repository hosts data and metadata according to a set of defined criteria to ensure that the resources provided are consistent with the intent of the repository.	The repository provides documentation for each resource to permit its complete and accurate citation.	A description of the methods used to acquire the data is provided.	Version information is provided for each resource, where available.	The structure of the repository permits efficient discovery of data and metadata by end users.	The repository uses a standardized protocol to permit access by users.
The FAIRshake repository rubric	NIH Data Sharing Repositories		yes (1.00)	yes (1.00)	no (0.00)	yes (1.00)	yes (1.00)	yes (1.00)	yes (1.00)	yes (1.00)	yes (1.00)

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https://www.metabolomicsworkbench.org/about/termsofuse.php

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## IP Exclusion List 1

### As php code:

```
$blocked_ip=array(
'132.249', '3.91', '5.9', '34.238', '35.174', '40.77', '46.229', '46.4', '54.209', '66.249', '69.3', '78.46',
'91.137', '92.22', '95.216', '95.91', '106.120', '136.243', '144.76', '148.251', '157.55', '162.21',
'173.234', '178.255', '178.63', '180.76', '185.25', '192.151', '207.46', '213.174'
);
```

```
$blocked_ip3 = array('100.26.127', '103.131.71', '104.245.145', '110.249.201', '110.249.202',
'110.93.150', '111.225.148', '111.225.149', '114.111.32', '114.119.128', '114.119.129',
'114.119.130', '114.119.131', '114.119.132', '114.119.133', '114.119.134', '114.119.135',
'114.119.136', '114.119.137', '114.119.138', '114.119.139', '114.119.140', '114.119.141',
'114.119.142', '114.119.143', '114.119.144', '114.119.145', '114.119.146', '114.119.147',
'114.119.148', '114.119.149', '114.119.150', '114.119.151', '114.119.152', '114.119.153',
'114.119.154', '114.119.155', '114.119.156', '114.119.157', '114.119.158', '114.119.159',
'114.119.160', '114.119.161', '114.119.162', '114.119.163', '114.119.165', '114.119.166',
'114.119.167', '116.179.32', '116.179.37', '118.184.177', '123.125.109', '123.126.68',
'123.183.224', '125.209.235', '128.127.105', '129.206.45', '13.66.139', '135.125.216',
'135.181.137', '135.181.138', '135.181.140', '135.181.62', '135.181.74', '141.8.142',
'144.217.135', '147.162.3', '147.162.36', '147.92.153', '149.154.161', '149.155.131', '149.56.150',
'149.56.160', '154.51.131', '154.54.249', '157.90.177', '157.90.182', '157.90.209', '159.138.102',
'162.19.100', '162.19.101', '168.119.64', '168.119.65', '168.119.68', '17.121.112', '17.121.113',
'17.121.114', '17.121.115', '17.22.237', '17.22.245', '17.22.253', '17.241.219', '17.241.227',
'17.241.75', '17.246.15', '17.246.19', '17.246.23', '179.190.203', '184.75.211', '185.101.32',
'185.138.241', '185.191.171', '185.54.230', '189.124.192', '191.96.106', '194.187.169',
'194.187.171', '194.9.191', '195.154.122', '195.154.123', '195.154.126', '195.191.219',
'195.201.106', '198.134.108', '198.134.109', '198.251.73', '198.98.183', '199.47.82', '20.15.133',
'204.15.110', '207.241.229', '207.241.231', '207.241.233', '207.241.235', '207.241.236',
'211.249.46', '213.180.203', '216.244.66', '220.181.108', '23.22.35', '3.224.220', '31.3.152',
'31.3.153', '35.196.132', '35.227.62', '35.237.4', '37.46.121', '49.7.20', '49.7.21', '5.102.173',
'5.133.192', '5.255.231', '5.255.253', '5.45.207', '5.62.16', '5.62.20', '5.62.34', '5.62.41', '5.62.43',
'5.62.47', '5.62.49', '5.62.56', '5.62.57', '5.62.58', '5.62.59', '5.62.60', '5.62.61', '5.62.62', '5.62.63',
'50.21.188', '51.210.144', '52.167.144', '52.70.240', '54.161.41', '54.236.1', '54.236.121',
'54.36.148', '54.36.149', '58.250.125', '61.135.159', '65.108.103', '65.108.41', '65.108.6',
'65.108.64', '65.108.99', '65.21.231', '65.21.35', '69.160.160', '74.208.2', '76.164.224',
'77.234.43', '77.234.44', '77.75.72', '77.75.73', '77.75.76', '77.75.77', '77.75.78', '77.75.79',
'77.88.5', '79.142.76', '81.17.57', '85.208.96', '85.208.98', '85.31.186', '87.250.224', '91.143.80',
'91.219.212', '91.242.162', '93.158.161', '95.108.213', '95.142.112', '95.142.121', '95.142.127',
'95.217.72', '95.87.154');
```

## IP Exclusion List 2

### As php code:

\$blocked\_ip is as above in List 1.

```
$blocked_ip3 = array(
'162.55.85.226', '40.76.163.23', '123.126.50.10', '111.202.101.132', '111.202.101.149',
'111.202.101.143', '123.126.50.41', '123.126.50.46', '111.202.101.122', '111.202.101.177',
'111.202.101.98', '123.126.50.144', '123.126.50.30', '123.126.50.34', '111.202.101.115',
'111.202.101.2', '111.202.101.47', '123.126.50.120', '123.126.50.148', '123.126.50.65',
'111.202.101.101', '111.202.101.126', '111.202.101.14', '111.202.101.144', '111.202.101.150',
'111.202.101.183', '111.202.101.30', '123.126.50.11', '123.126.50.18', '123.126.50.49',
'123.126.50.64', '111.202.101.28', '111.202.101.38', '111.202.101.59', '111.202.101.82',
'123.126.50.104', '123.126.50.105', '123.126.50.147', '123.126.50.150', '123.126.50.50',
'123.126.50.78', '123.126.50.83', '111.202.101.127', '111.202.101.136', '111.202.101.154',
'111.202.101.159', '111.202.101.176', '111.202.101.180', '111.202.101.185', '111.202.101.193',
'111.202.101.3', '111.202.101.88', '123.126.50.111', '123.126.50.138', '123.126.50.160',
'123.126.50.27', '123.126.50.48', '111.202.101.135', '111.202.101.140', '111.202.101.163',
'111.202.101.165', '111.202.101.18', '111.202.101.187', '111.202.101.196', '111.202.101.31',
'111.202.101.32', '111.202.101.57', '111.202.101.75', '111.202.101.86', '111.202.101.91',
'123.126.50.12', '123.126.50.146', '123.126.50.164', '123.126.50.165', '123.126.50.23',
'123.126.50.24', '123.126.50.29', '123.126.50.62', '123.126.50.63', '123.126.50.76',
'123.126.50.87', '123.126.50.94', '111.202.101.109', '111.202.101.121', '111.202.101.164',
'111.202.101.173', '111.202.101.182', '111.202.101.189', '111.202.101.195', '111.202.101.27',
'111.202.101.81', '111.202.101.92', '123.126.50.125', '123.126.50.133', '123.126.50.135',
'123.126.50.159', '123.126.50.16', '123.126.50.162', '123.126.50.166', '123.126.50.170',
'123.126.50.171', '123.126.50.38', '123.126.50.43', '123.126.50.54', '123.126.50.75',
'123.126.50.98', '111.202.101.111', '111.202.101.116', '111.202.101.128', '111.202.101.130',
'111.202.101.174', '111.202.101.21', '111.202.101.33', '111.202.101.48', '111.202.101.49',
'111.202.101.50', '111.202.101.77', '123.126.50.119', '123.126.50.15', '123.126.50.155',
'123.126.50.4', '123.126.50.47', '123.126.50.69', '123.126.50.99', '111.202.101.105',
'111.202.101.12', '111.202.101.13', '111.202.101.134', '111.202.101.152', '111.202.101.160',
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