

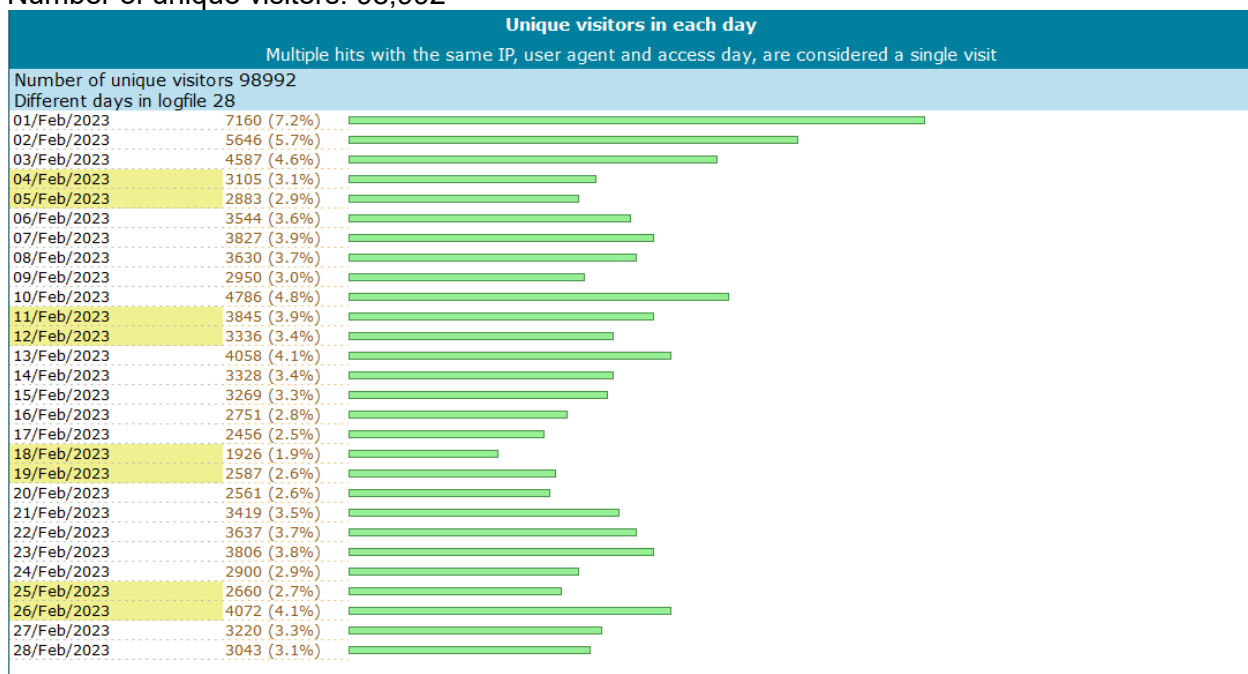
Access and Use Statistics and FAIR metrics on Metabolomics Workbench (MW)

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 (February 2023, 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: 98,992



Country-based access statistics

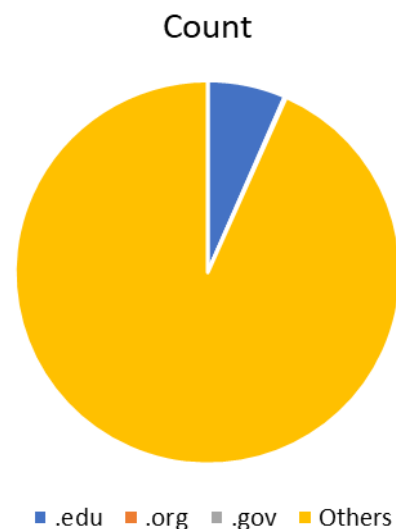
From the IP addresses, hostname and their geographical location (country) is identified and summarized.

Top 30 counties:

| Country_short | Country_long | Count |
|---------------|--------------------------|--------|
| US | United States of America | 681483 |
| FR | France | 541757 |
| SG | Singapore | 155192 |
| FI | Finland | 107098 |
| CA | Canada | 85102 |
| DE | Germany | 69543 |
| NL | Netherlands | 62470 |

| | | |
|----|--|-------|
| GB | United Kingdom of Great Britain and Northern Ireland | 55929 |
| GH | Ghana | 42718 |
| ES | Spain | 19802 |
| CN | China | 18789 |
| SE | Sweden | 16486 |
| AU | Australia | 15950 |
| BE | Belgium | 15226 |
| CZ | Czechia | 14102 |
| HK | Hong Kong | 13773 |
| IT | Italy | 12384 |
| RO | Romania | 12188 |
| PL | Poland | 11780 |
| JP | Japan | 11232 |
| UA | Ukraine | 9936 |
| NO | Norway | 8983 |
| RU | Russian Federation | 8887 |
| IN | India | 8785 |
| IL | Israel | 8048 |
| HU | Hungary | 7656 |
| IS | Iceland | 7089 |
| CH | Switzerland | 6715 |
| RS | Serbia | 6435 |
| AE | United Arab Emirates | 5898 |

| Category | Count | Percent |
|----------|---------|---------|
| .edu | 137190 | 6.536 |
| .org | 1603 | 0.076 |
| .gov | 1066 | 0.051 |
| Others | 1959099 | 93.337 |

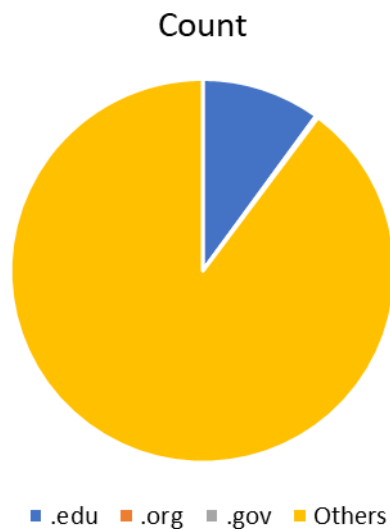


After excluding additional IP addresses with 'bot', 'spider', etc., in their hostnames (see IP Exclusion List 2 at the end): top 30 countries:

| Country_short | Country_long | Count |
|---------------|--|--------|
| US | United States of America | 599210 |
| FI | Finland | 107097 |
| CA | Canada | 85102 |
| NL | Netherlands | 62470 |
| FR | France | 61435 |
| DE | Germany | 57283 |
| GB | United Kingdom of Great Britain and Northern Ireland | 53623 |
| GH | Ghana | 42718 |
| ES | Spain | 19802 |
| CN | China | 18789 |
| SE | Sweden | 16486 |
| AU | Australia | 15950 |
| BE | Belgium | 15226 |
| CZ | Czechia | 14100 |
| HK | Hong Kong | 13773 |

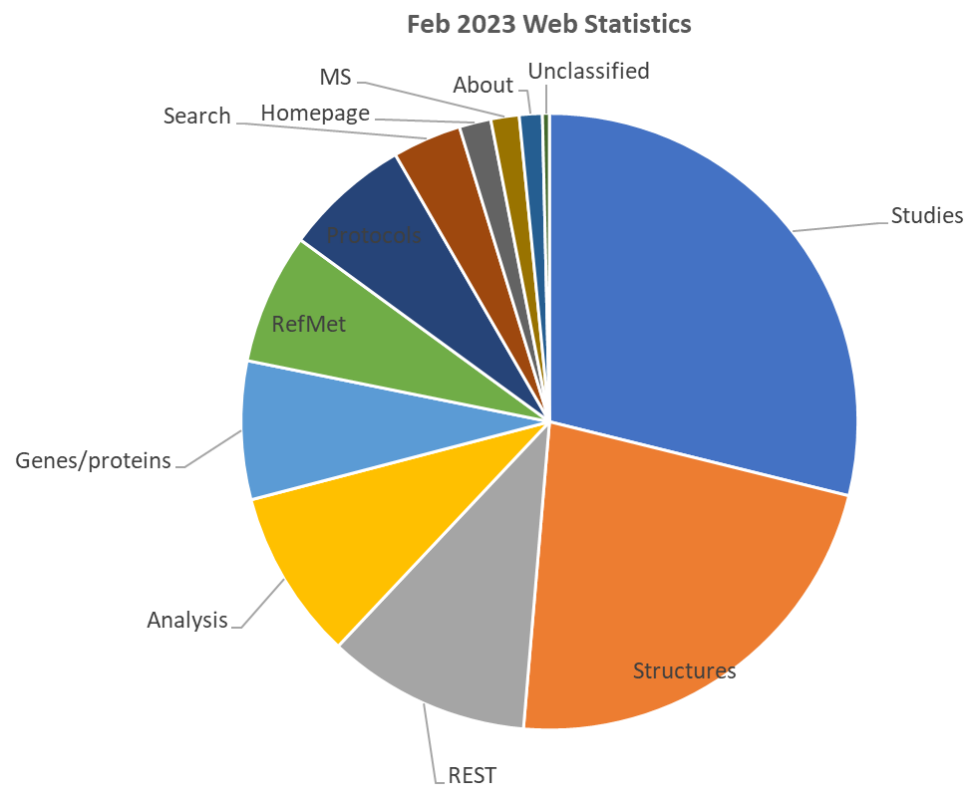
| Category | Count | Percent |
|----------|---------|---------|
| .edu | 137190 | 10.018 |
| .org | 1591 | 0.116 |
| .gov | 1066 | 0.078 |
| Others | 1229650 | 89.789 |

| | | |
|----|----------------------|-------|
| IT | Italy | 12384 |
| RO | Romania | 12188 |
| PL | Poland | 11780 |
| JP | Japan | 11232 |
| UA | Ukraine | 9936 |
| NO | Norway | 8983 |
| IN | India | 8785 |
| IL | Israel | 8048 |
| HU | Hungary | 7656 |
| IS | Iceland | 7089 |
| CH | Switzerland | 6715 |
| RS | Serbia | 6435 |
| AE | United Arab Emirates | 5898 |
| SG | Singapore | 5892 |
| RU | Russian Federation | 5891 |



Resource types (Major categories)

| Category | Feb 2023 Web Statistics (28 days) | Hits per day |
|----------------|-----------------------------------|--------------|
| Studies | 605788 | 21635 |
| Structures | 471839 | 16851 |
| REST | 223858 | 7995 |
| Analysis | 186963 | 6677 |
| Genes/proteins | 152297 | 5439 |
| RefMet | 144062 | 5145 |
| Protocols | 139057 | 4966 |
| Search | 75757 | 2706 |
| Homepage | 34923 | 1247 |
| MS | 31206 | 1115 |
| About | 25241 | 901 |
| Unclassified | 7694 | 275 |



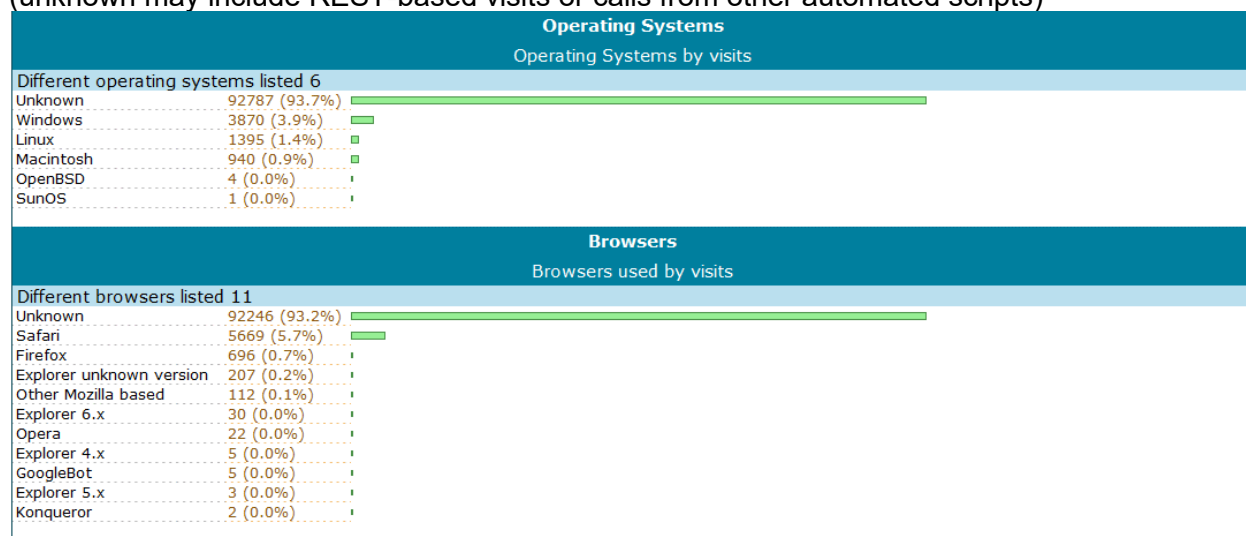
Top page hits over Feb 2023:

| Type of page | End-point | Count |
|----------------------|---|--------|
| Studies | /data/DRCCMetadata.php | 359226 |
| REFMET | /rest/refmet | 146990 |
| Structure data | /data/StructureData.php | 145566 |
| Statistical analysis | /data/metabolite_id_show.php | 133176 |
| Metabolite-Gene | /databases/proteome/MGP_table.php | 94467 |
| Search | /search/sitesearch.php | 68559 |
| Protocols | /protocols/protocoldetails.php | 66724 |
| Study summary | /data/DRCCStudySummary.php | 64274 |
| REFMET | /databases/refmet/refmet.php | 60081 |
| Studies | /rest/study | 59610 |
| Protocols | /protocols/general.php | 58848 |
| Statistical analysis | /data/show_metabolite_data_by_factors.php | 53784 |
| REFMET | /databases/refmet/abbrev_generic.php | 53452 |
| Metabolite-Gene | /databases/proteome/MGP_detail.php | 43730 |
| General | /data/png_display_inline2.php | 42394 |
| REFMET | /databases/refmet/refmet_details.php | 35035 |
| General | /homepage | 34923 |
| Archive | /data/show_archive_contents_json.php | 27782 |
| Massbank | /data/massbank.php | 26687 |
| Files | /data/file_extract_7z.php | 24398 |

| | | |
|--------------|--------------------------------------|-------|
| Study search | /data/show_studies_by_pubchem.php | 21640 |
| Pathways | /data/show_h_pathway_metabolites.php | 21492 |
| Search | /data/s3.php | 15982 |
| Files | /data/file_extract.php | 14958 |
| Search | /data/search_untarg_mz.php | 14519 |

OS and browsers

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

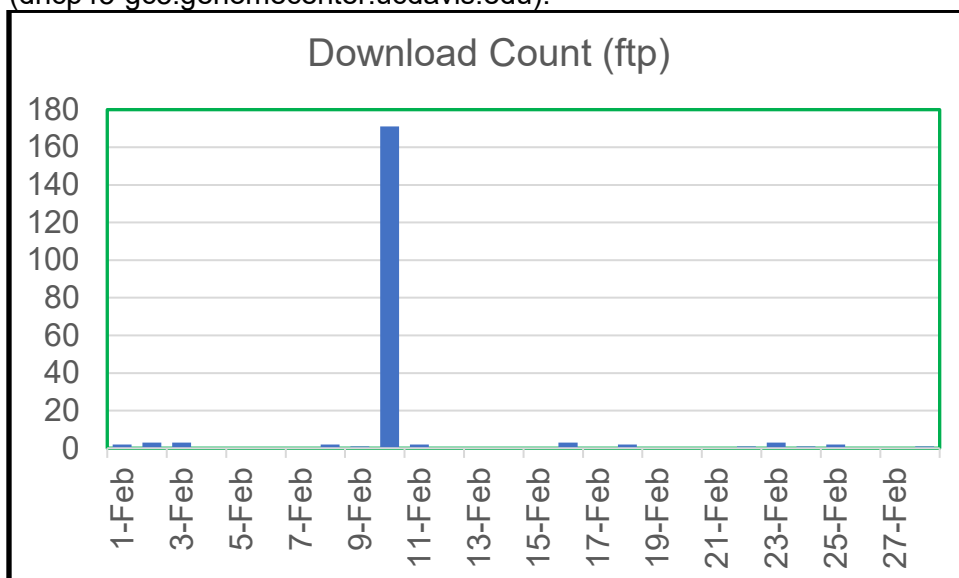


Download statistics

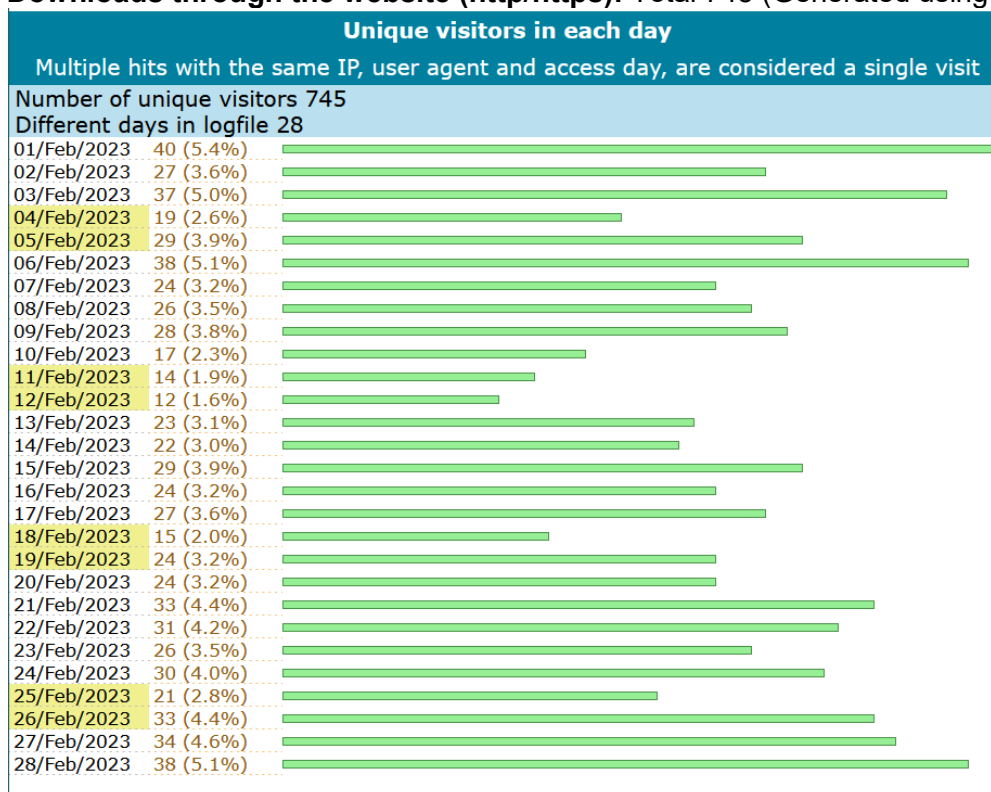
Amount of data downloaded: about 5 TB

FTP-based downloads: Total 197

Important note: In Feb 2023, 171 downloads were from UC Davis (dhcp45-gc5.genomecenter.ucdavis.edu).



Downloads through the website (http/https): Total 745 (Generated using "Visitors")



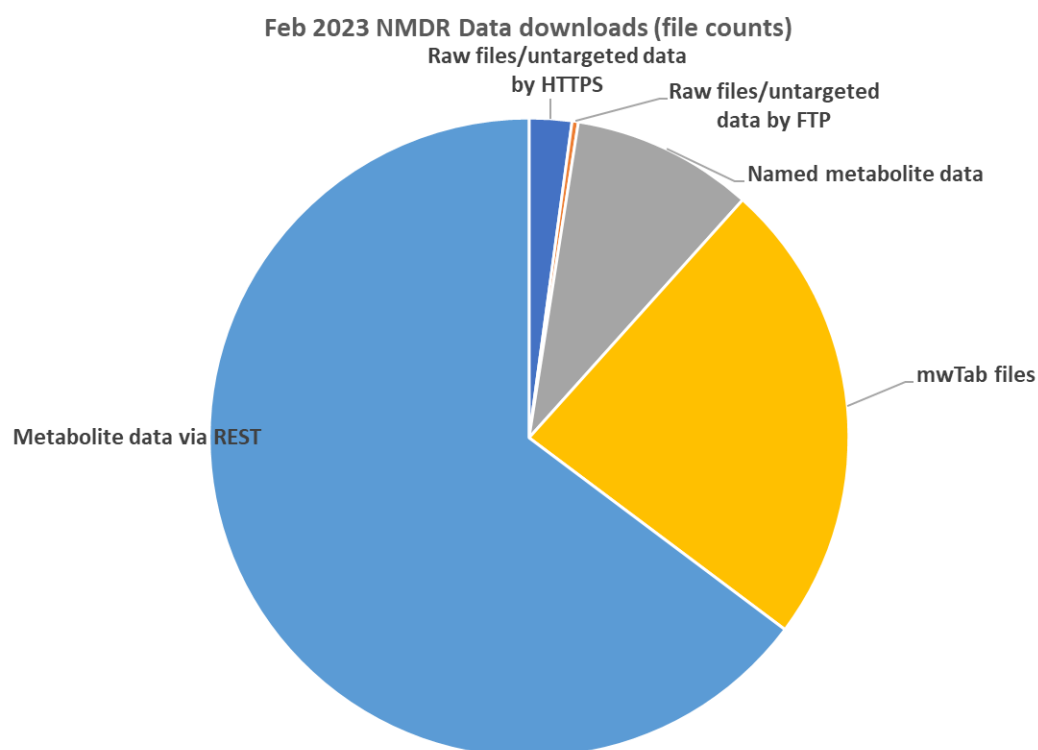
Top downloads requested:

| Requested pages | | |
|-------------------------------|----|--|
| Page requests ordered by hits | | |
| Different pages requested 599 | | |
| 1) | 41 | /studydownload/ST000923_AN001513_Results.txt |
| 2) | 37 | /studydownload/ST001192_AN001986_Results.txt |
| 3) | 35 | /studydownload/ST000879_AN001429_Results.txt |
| 4) | 28 | /studydownload/ST000923_AN001514_Results.txt |
| 5) | 21 | /studydownload/ST000604_AN000924_Results.txt |
| 6) | 19 | /studydownload/ST001192_AN001985_Results.txt |
| 7) | 18 | /studydownload/ST000020.zip |
| 8) | 18 | /studydownload/ST000604_AN000925_Results.txt |
| 9) | 18 | /studydownload/ST000919_AN001506_Results.txt |
| 10) | 16 | /studydownload/ST000879_AN001432_Results.txt |
| 11) | 14 | /studydownload/ST001942.zip |
| 12) | 13 | /studydownload/ST000954_AN001564_Results.txt |
| 13) | 12 | /studydownload/ST001000_RawFile_SampleID_mapping.csv |
| 14) | 10 | /studydownload/ST000956_AN001568_Results.txt |
| 15) | 9 | /studydownload/ST001192_AN001984_Results.txt |
| 16) | 9 | /studydownload/ST002110_pos_rawdata.zip |
| 17) | 9 | /studydownload/ST001000_AN001631_Results.txt |
| 18) | 9 | /studydownload/ST000746_AN001169_Results.txt |
| 19) | 8 | /studydownload/ST001000_AN001629_Results.txt |
| 20) | 8 | /studydownload/ST001430_AN002391_Results.txt |

Mode of download (Feb 2023)

Unlike the filtering for other statistics, these are based on the entire log for February 2023 (without excluding bots, spiders, etc).

| Type | Feb 2023 NMDR Data downloads (file counts) |
|------------------------------------|--|
| Raw files/untargeted data by HTTPS | 1615 |
| Raw files/untargeted data by FTP | 240 |
| Named metabolite data | 6892 |
| mwTab files | 17729 |
| Metabolite data via REST | 48652 |



Access statistics of our GitHub page for Jupyter notebooks repository (covers 8/1/2022 – 02/28/2023)

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

| Path | Count | Uniques |
|---|-----------|-----------|
| /metabolomicsworkbench/jupyter-notebooks | 113 | 69 |
| /metabolomicsworkbench/jupyter-notebooks/blob/6db27e08aa59166f9b756723dc6b7f74e117afdb/MWUtil.py | 4 | 2 |
| /metabolomicsworkbench/jupyter-notebooks/blob/master/.gitignore | 2 | 2 |
| /metabolomicsworkbench/jupyter-notebooks/blob/master/environment.yml | 14 | 6 |
| /metabolomicsworkbench/jupyter-notebooks/blob/master/MWPerformClusteredHeatMapAnalysis.ipynb | 16 | 16 |
| /metabolomicsworkbench/jupyter-notebooks/blob/master/MWPerformDataNormalization.ipynb | 99 | 86 |
| /metabolomicsworkbench/jupyter-notebooks/blob/master/MWPerformLinearDiscriminantAnalysis.ipynb | 10 | 9 |
| /metabolomicsworkbench/jupyter-notebooks/blob/master/MWPerformPartialLeastSquaresDiscriminantAnalysis.ipynb | 7 | 5 |
| /metabolomicsworkbench/jupyter-notebooks/blob/master/MWPerformPrincipalComponentAnalysis.ipynb | 5 | 5 |
| /metabolomicsworkbench/jupyter-notebooks/blob/master/MWPerformRandomForestAnalysis.ipynb | 9 | 9 |
| /metabolomicsworkbench/jupyter-notebooks/blob/master/MWPerformRelativeLogAbundanceAnalysis.ipynb | 16 | 10 |
| /metabolomicsworkbench/jupyter-notebooks/blob/master/MWPerformVolcanoPlotAnalysis.ipynb | 22 | 18 |
| /metabolomicsworkbench/jupyter-notebooks/blob/master/MWPlotNamedMetabolitesResultsExample.ipynb | 20 | 18 |
| /metabolomicsworkbench/jupyter-notebooks/blob/master/MWRestAPICompoundDataExample.ipynb | 4 | 4 |
| /metabolomicsworkbench/jupyter-notebooks/blob/master/MWRestAPIExactMassDataExample.ipynb | 1 | 1 |
| /metabolomicsworkbench/jupyter-notebooks/blob/master/MWRestAPINamedMetabolitesResultsExample.ipynb | 10 | 6 |
| /metabolomicsworkbench/jupyter-notebooks/blob/master/MWRestAPIProteinDataExample.ipynb | 13 | 13 |
| /metabolomicsworkbench/jupyter-notebooks/blob/master/MWRestAPIRefMetDataExample.ipynb | 5 | 5 |
| /metabolomicsworkbench/jupyter-notebooks/blob/master/MWRestAPIStudyDataExample.ipynb | 16 | 15 |
| /metabolomicsworkbench/jupyter-notebooks/blob/master/MWUtil.py | 12 | 4 |
| /metabolomicsworkbench/jupyter-notebooks/blob/master/README.md | 3 | 3 |
| GIT CLONES | 61 | 73 |
| Referrer | Counts | Uniques |
| bdcw.org | 2 | 2 |
| colab.research.google.com | 1 | 1 |
| github.com | 7 | 7 |
| Google | 164 | 110 |
| metabolomicsworkbench.org | 177 | 76 |

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

| Path | Count | Uniques |
|--|-------|---------|
| /metabolomicsworkbench/MetENP | 938 | 391 |
| /metabolomicsworkbench/MetENP/blob/2ea09f22358e7dbf4d8cf70cc8cde89516c29ddf/vignettes/MetENP_ST001951.ipynb | 4 | 2 |
| /metabolomicsworkbench/MetENP/blob/34c302a6a40652d4f4431ab839c078d8a95bcd79/vignettes/MetENP_ST001951.ipynb | 2 | 2 |
| /metabolomicsworkbench/MetENP/blob/a8e80f154a9a4a865fde6803811235a4f3c2454b/vignettes/MetENP_vignette_Jupyter_notebook.ipynb | 5 | 4 |
| /metabolomicsworkbench/MetENP/blob/b20cc4d6c2bda254c154f97c69829ef01388b877/R/anova_ana.R | 1 | 1 |
| /metabolomicsworkbench/MetENP/blob/b20cc4d6c2bda254c154f97c69829ef01388b877/R/partial_join.R | 2 | 2 |
| /metabolomicsworkbench/MetENP/blob/b20cc4d6c2bda254c154f97c69829ef01388b877/R/pathinfo.R | 2 | 2 |
| /metabolomicsworkbench/MetENP/blob/b20cc4d6c2bda254c154f97c69829ef01388b877/R/significant_met.R | 2 | 2 |
| /metabolomicsworkbench/MetENP/blob/b20cc4d6c2bda254c154f97c69829ef01388b877/vignettes/MetENP_vignette.rmd | 2 | 2 |
| /metabolomicsworkbench/MetENP/blob/main/binder/environment.yml | 8 | 4 |
| /metabolomicsworkbench/MetENP/blob/main/binder/postBuild | 13 | 6 |
| /metabolomicsworkbench/MetENP/blob/main/data/ls_path.RData | 4 | 4 |
| /metabolomicsworkbench/MetENP/blob/main/DESCRIPTION | 20 | 13 |
| /metabolomicsworkbench/MetENP/blob/main/environment.yml | 13 | 7 |
| /metabolomicsworkbench/MetENP/blob/main/inst/extdata/example.txt | 4 | 4 |
| /metabolomicsworkbench/MetENP/blob/main/inst/extdata/human_cachexia.csv | 1 | 1 |
| /metabolomicsworkbench/MetENP/blob/main/LICENSE | 1 | 1 |
| /metabolomicsworkbench/MetENP/blob/main/man/compoundinfo.Rd | 2 | 2 |
| /metabolomicsworkbench/MetENP/blob/main/man/enzyme_gene_info.Rd | 2 | 1 |
| /metabolomicsworkbench/MetENP/blob/main/NAMESPACE | 3 | 3 |
| /metabolomicsworkbench/MetENP/blob/main/R/anova_ana.R | 3 | 3 |
| /metabolomicsworkbench/MetENP/blob/main/R/compoundinfo.R | 2 | 2 |
| /metabolomicsworkbench/MetENP/blob/main/R/convert_refmet.R | 17 | 12 |
| /metabolomicsworkbench/MetENP/blob/main/R/data.R | 1 | 1 |
| /metabolomicsworkbench/MetENP/blob/main/R/dotplot_met_class_path.R | 6 | 4 |
| /metabolomicsworkbench/MetENP/blob/main/R/map_keggid.R | 3 | 3 |
| /metabolomicsworkbench/MetENP/blob/main/R/mapspspath.R | 1 | 1 |
| /metabolomicsworkbench/MetENP/blob/main/R/metclassenrichment.R | 12 | 10 |
| /metabolomicsworkbench/MetENP/blob/main/R/metcountplot.R | 2 | 2 |
| /metabolomicsworkbench/MetENP/blob/main/R/pathinfo.R | 3 | 1 |
| /metabolomicsworkbench/MetENP/blob/main/R/plot_heatmap.R | 1 | 1 |
| /metabolomicsworkbench/MetENP/blob/main/R/plot_met_enrichment.R | 4 | 4 |
| /metabolomicsworkbench/MetENP/blob/main/R/plot_pathway_networks.R | 6 | 4 |
| /metabolomicsworkbench/MetENP/blob/main/R/plot_volcano.R | 3 | 3 |
| /metabolomicsworkbench/MetENP/blob/main/R/significant_met.R | 4 | 2 |
| /metabolomicsworkbench/MetENP/blob/main/README.md | 23 | 10 |
| /metabolomicsworkbench/MetENP/blob/main/vignettes/Case%20study%201_ %20Study%20ST000915_20220619.html | 8 | 7 |
| /metabolomicsworkbench/MetENP/blob/main/vignettes/Case%20study%201_ %20Study%20ST000915_20220625.html | 12 | 7 |
| /metabolomicsworkbench/MetENP/blob/main/vignettes/Case%20study%201_ %20Study%20ST000915.html | 46 | 24 |
| /metabolomicsworkbench/MetENP/blob/main/vignettes/MetENP_ST000084.ipynb | 4 | 4 |
| /metabolomicsworkbench/MetENP/blob/main/vignettes/MetENP_ST000897.ipynb | 2 | 2 |
| /metabolomicsworkbench/MetENP/blob/main/vignettes/MetENP_ST000915.ipynb | 5 | 4 |
| /metabolomicsworkbench/MetENP/blob/main/vignettes/MetENP_vignette_Jupyter_notebook.ipynb | 30 | 14 |
| /metabolomicsworkbench/MetENP/blob/main/vignettes/MetENP_vignette.rmd | 76 | 39 |
| /metabolomicsworkbench/MetENP/blob/main/vignettes/tmp/test.txt | 2 | 2 |
| GIT CLONES | 109 | 126 |
| Referrer | Count | Uniques |
| bdcw.org | 6 | 4 |
| bioRxiv.org | 66 | 23 |
| github.com | 60 | 29 |
| Google | 350 | 99 |
| metabolomicsworkbench.org | 75 | 29 |
| notebooks.githubusercontent.com | 12 | 2 |
| training.nih-cfde.org | 4 | 2 |

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

| Path | Count | Uniques |
|--|-------|---------|
| /metabolomicsworkbench/MetENPAppyter | 15 | 14 |
| /metabolomicsworkbench/MetENPAppyter/blob/main/R/MetENP/R/MetENP | 3 | 3 |
| /metabolomicsworkbench/MetENPAppyter/blob/main/R/MetENP/R/MetENP.rdb | 1 | 1 |
| GIT CLONES | 14 | 21 |
| Referrer | Count | Uniques |
| github.com | 8 | 6 |
| Google | 25 | 9 |




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

Precalculated 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/

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) |

The above tables lists “no” for license, but we have stated the terms of use. In the future, we will decide the license term (CC BY-NC, CC BY-NC-SA or something allowing commercialization of derivative work) and update the “Terms of use” page.

https://www.metabolomicsworkbench.org/about/termsofuse.php 90%



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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', '114.119.132', '114.119.133', '114.119.135',
'114.119.137', '114.119.140', '114.119.145', '114.119.149', '114.119.152', '114.119.153',
'114.119.154', '114.119.155', '116.179.32', '116.179.37', '118.184.177', '123.125.109',
'123.183.224', '125.209.235', '128.127.105', '13.66.139', '135.181.137', '135.181.138',
'135.181.62', '141.8.142', '144.217.135', '147.92.153', '149.154.161', '149.155.131', '149.56.150',
'149.56.160', '154.51.131', '154.54.249', '157.90.177', '17.121.112', '17.121.113', '17.121.114',
'17.121.115', '184.75.211', '185.101.32', '185.138.241', '185.191.171', '185.54.230', '191.96.106',
'194.187.171', '194.9.191', '195.201.106', '198.134.108', '198.134.109', '198.251.73',
'198.98.183', '199.47.82', '204.15.110', '207.241.229', '207.241.233', '211.249.46', '213.180.203',
'216.244.66', '220.181.108', '31.3.152', '31.3.153', '37.46.121', '49.7.20', '49.7.21', '5.102.173',
'5.133.192', '5.255.253', '5.45.207', '5.62.16', '5.62.20', '5.62.41', '5.62.43', '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', '54.161.41', '58.250.125',
'61.135.159', '65.108.103', '65.108.6', '65.108.99', '65.21.231', '69.160.160', '74.208.2',
'76.164.224', '77.234.44', '77.75.73', '77.75.76', '77.75.77', '77.75.78', '77.75.79', '77.88.5',
'79.142.76', '81.17.57', '85.208.98', '85.31.186', '87.250.224', '91.143.80', '91.219.212',
'91.242.162', '93.158.161', '95.108.213', '95.142.121', '95.142.127', '95.87.154'
);
```

IP Exclusion List 1

As php code:

\$blocked_ip is as above in List 1.

```
$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', '123.183.224', '125.209.235',
    '128.127.105', '129.206.45', '13.66.139', '135.125.216', '135.181.137', '135.181.138',
    '135.181.62', '141.8.142', '144.217.135', '147.92.153', '149.154.161', '149.155.131', '149.56.150',
    '149.56.160', '154.51.131', '154.54.249', '157.90.177', '157.90.209', '159.138.102', '168.119.64',
    '168.119.65', '168.119.68', '17.121.112', '17.121.113', '17.121.114', '17.121.115', '17.22.245',
    '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', '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', '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', '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',
    '5.62.49', '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', '52.167.144', '54.161.41', '54.236.1', '54.36.148', '54.36.149', '58.250.125',
    '61.135.159', '65.108.103', '65.108.6', '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', '85.208.98', '85.31.186', '87.250.224',
    '91.143.80', '91.219.212', '91.242.162', '93.158.161', '95.108.213', '95.142.121', '95.142.127',
    '95.87.154'
);
```