

最初にお読みください

Mascot Server version 3.0 for Windows Release Notes

新規インストール

新規インストールを行う前に、2頁の「最新の追加情報」をご覧ください。インストールDVDにある「**Mascot_Server_v3.0_Win_新規インストール手順.pdf**」書類にしたがってインストールを進めてください。また、インストールDVDにある「**manual.pdf**」書類の「3. Installation:Windows」も併せてご覧ください。

アップグレード

バージョン2.8からバージョン3.0 にアップグレードする場合は、インストールDVDにある「**Mascot_Server_v3.0_Win_アップグレード手順.pdf**」書類にしたがってアップグレードを進めてください（*アップデート版DVDをお送りした方には、同PDF資料の印刷物も同封されています）。また、インストールDVDにある「**manual.pdf**」の「3. Installation: Windows」も併せてご覧ください。なお、今までバージョン2.8で使用していたライセンスファイルはバージョン3.0では使えません。弊社が新たに提供するプロダクトキーを使ってバージョン3.0用のライセンスファイルを新規に取得してください。

新規サポート機能

インストールDVDにある別紙資料「**ver. 3.0新機能紹介.pdf**」をご覧ください。

バージョン 2.8 からの変更点

3頁にバージョン2.8.3 からの変更点をまとめました。なお、この書類以降に追加された内容を含む最新の変更点に関しては、2頁の「最新の追加情報」並びに「https://www.matrixscience.com/mascot_support_v3_0.html」をご覧ください。

最新の追加情報

データベースの圧縮

Mascot Server 3.0 にアップデートすると、すべての配列データベースが自動的に再構築を開始します。バージョン3.0では圧縮ファイル形式が変更されたためです。データベースの数が多の場合、完了まで非常に時間がかかる事があります。Database Status 画面における各データベースの” Status” 項目の情報から構築状況をご確認ください。

データディレクトリへのシンボリックリンク

「data」ディレクトリに対するシンボリックリンクなどの機能を使用している状態で Mascot Server 3.0 にアップデートした場合、Mascotインストーラーが正常に動作しない事があります。このエラーは、「指定されたネットワーク先にアクセスできない」ために起こり、シンボリックリンクがローカルディスクを正しく示している場合でも発生する事があります。このエラーが発生した場合は弊社<support-jp@matrixscience.com>までお問い合わせください。

Windows OSに関する情報

サポートOSの変更 (一部OSのサポート廃止)

Mascot Server 3.0 ではWindows 8.1またはWindows Server 2012 R2 以降でご利用ください。なお Windows 8 以前についてはサポート対象外となりましたのでご注意ください。

バージョン 2.8.3 からの変更点

以下の表並びに https://www.matrixscience.com/mascot_support_v3_0.html をご覧ください。
また、下記項目の詳細については弊社までお問い合わせください。

| ID | Component | Description |
|-------|---------------------------|---|
| 6442 | Daemon | Daemon assumes all new MDRO providers are files not folders |
| 6486 | nph-mascot.exe | Takes a long time to create the Fxxxxxx.dat.que.y files (Windows disk bottleneck in "Query prep time") |
| 6847 | master_results_2.pl | Browser performance improvements in Protein Family Summary |
| 10876 | master_results_2.pl | master_results_2.pl doesn't cope with missing mascot.dat |
| 11568 | Security | Remove references to Integra and Insight in Mascot Security |
| 11865 | nph-mascot.exe | Scaling with number of threads in SMP mode on yabby very disappointing (Windows disk bottleneck in "Searching... time") |
| 12535 | System | Slash the amount of time spent in preprocessing peak lists and postprocessing search results (soup to nuts) |
| 12701 | master_results_2.pl | Protein Family Summary should support tag searches |
| 12743 | Not determined | Searching for a sequence in a result file with a lot of identical sequences takes 30 minutes |
| 12801 | ms-status.exe | Link to error log produces a CGI error if ms-monitor.exe isn't running |
| 12825 | master_results_2.pl | Inconsistent treatment of DECOY=ON and DECOY=OFF |
| 12892 | Search results | Zero value for Observed in unassigned list for query whose only match is a chimeric duplicate |
| 13106 | Not determined | Add new method ms_inputquery::getQueryNumber() |
| 13130 | dbman_scan_for_library.pl | Failed to run dbman_msp_from_results_file.pl and crawl results on some Linux systems |
| 13201 | Documentation | ms-service.exe documentation is incorrect |
| 13267 | nph-mascot.exe | Allow user to select application-specific sub-set of mods for second pass of error tolerant search |
| 13303 | System | M00135 message is out of date |
| 13345 | Documentation | Search parameter help for instrument uses different row labels than Configuration Editor |
| 13422 | Import filters | MGF peak lists saved from Distiller Data import filter have peak picking parameters commented out. |
| 13447 | Search results | Add getPeakCharge method |
| 13480 | Search results | get_ms_mascotresults() defaults to old protein grouping for sequence tag searches |
| 13483 | nph-mascot.exe | Negative protein mass in MS/MS search |
| 13486 | master_results_2.pl | Repeat search of sequence tag from Protein Family Summary fails to pass through fixed and variable modifications |
| 13516 | master_results.pl | Show Mascot errors on the Wot no results page |
| 13531 | Performance | Reduce the time spent in caching search results |
| 13632 | nph-mascot.exe | Remove obsolete pip code from nph-mascot.exe |
| 13678 | Performance | Support new .msr file format |
| 13765 | Import filters | Output ion mobility values from MDRO if associated Mascot Server is 2.7 or later |
| 13797 | System | Update Boost to 1.79.0 |
| 13799 | Percolator | Replace Percolator RT feature with MS2RescoreAdapter (DeepLC, MS2PIP) |
| 13856 | Perl interpreter | Update Perl on Windows to 5.38 and update prerequisites and modules |
| 13858 | Documentation | Roll-up of changes to Manual, release notes, and HTML pages for 3.0 |
| 13870 | Percolator | Make sure Percolator is built with 64-bit, not 32-bit boost_regex |
| 13872 | Daemon | Review the need for 32-bit Parser |
| 13976 | Results display | Show more detailed information about search stage in addition to percentage |
| 13988 | ms-status.exe | Click on "view error log" when Mascot isn't running and get HTTP Error 502.2 - Bad Gateway |
| 14017 | export_dat_2.pl | New cache files are created when exporting a decoy search and a target FDR is set. |

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| 14033 | System | Change from four-component to three-component versioning |
| 14034 | Installer | Migrate from WiX 3.7 to WiX 3.11 for Windows installer |
| 14053 | Documentation | Add documentation for setting up SSL |
| 14058 | ms-gettaxonomy.exe | ms-gettaxonomy.exe works correctly even when taxonomy block is disabled (Enabled=0) |
| 14068 | Installation | Remove directory gnu/7.2.0 from Linux shipper image |
| 14109 | Configuration files | MascotFileProcessingThreads set to -1 should automatically use all possible threads |
| 14111 | Search results | Rename ms_mascotresfile to ms_mascotresfile_dat |
| 14117 | nph-mascot.exe | nph-mascot.exe, write search results in MSR v0.9 format |
| 14118 | client.pl | Download .msr file using client.pl, and reconstruct full .dat from slim .dat and MSR |
| 14119 | export_dat_2.pl | Export MSR file in dat28 format (export_format=MascotDAT) and MSR format (export_format=MascotMSR) |
| 14120 | ms-createtime.exe | Create pip file from .dat or .msr results file |
| 14121 | Search results | New API for .msr results files, and implement parsing and interpretation of MSR v0.9 files |
| 14125 | Perl interpreter | Update Perl on Linux to 5.38 and update prerequisites and modules |
| 14127 | Building | Drop VS2012 and VS2013 shippers |
| 14129 | System | Compile Mascot with GCC11 and VS2019 |
| 14131 | nph-mascot.exe | Uncaught exceptions are reported as meaningless exit code '-1073740791' |
| 14133 | Sample code | Update Parser examples for MSR files |
| 14138 | nph-mascot.exe | Crash in library search in cluster mode with fewer queries than SplitNumberOfQueries |
| 14139 | nph-mascot.exe | A search against a Spectral Library should always split by queries |
| 14146 | master_results_2.pl | Change the title of Percolator progress bar to "Refining with machine learning" |
| 14147 | master_results_2.pl | Display a warning in Protein Family Summary if Percolator is on and did not improve sensitivity |
| 14152 | nph-mascot.exe | The mass of the crosslinker is always unsigned in nph-mascot |
| 14156 | Installer | Ship Mascot with the latest VS2015-VS2022 redistributable |
| 14157 | Search results | Undefined behaviour in ms_fdr_query_processor::getThresholdForFDR() |
| 14172 | Database Manager | URL for PRIDE spectral libraries has changed |
| 14173 | Database Manager | UniProt REST URLs have changed |
| 14179 | Documentation | MinGW instructions |
| 14181 | MS1 Quantitation | Support target FDR in ms_distiller_data_search |
| 14186 | search_form.pl | Disallow TargetFDR and ET+Decoy on FORMVER=3 (Distiller 2.8) |
| 14192 | Installation | Upgrade Linux shippers to GCC 5.5.0 and MinGW to GCC 7.1.0 |
| 14208 | Search results | ms_searchparams::getVarModsNeutralLosses() doesn't return satellite NLs |
| 14211 | nph-mascot.exe | Unexpected difference in query sort order in cluster mode |
| 14217 | Search results | Failing to read local mods NL string, fault introduced in Parser 2.7.0 |
| 14238 | nph-mascot.exe | New command-line argument to nph-mascot.exe to specify output format |
| 14239 | search_form.pl | Specify output format as MSR when submitting a search |
| 14240 | Configuration files | New mascot.dat option SearchSubmitOutputFormat |
| 14241 | System | Script and help text for processing TMTpro complementary ions |
| 14244 | Documentation | Apache example config supplied with Mascot should include LimitRequestBody |
| 14247 | Configuration files | New mascot.dat option to diagnose MSR generation |
| 14257 | MS1 Quantitation | Move Quantlib/Distiller time alignment code to Parser and save/load in cdb/xml |
| 14262 | MS2 Quantitation | TMTpro 16-plex and 18-plex mod groups should be required=false |
| 14265 | nph-mascot.exe | Allow embedded config files in MIME format input |
| 14274 | Errors & warnings | Methods and classes not wrapped properly by SWIG for Perl, Python, Java and C# |
| 14276 | nph-mascot.exe | Memory leaks in nph-mascot searches |
| 14280 | System | View/process MSR format search results in Perl scripts |
| 14282 | Documentation | Add distiller_time_align_1.xsd to the website |
| 14285 | MS1 Quantitation | Implement New Imputation Methods in Parser |
| 14287 | nph-mascot.exe | Count all the accessions when creating the index files of a sequence database |
| 14293 | Threading | Further thread safety issues : getPeptideThreshold() |
| 14300 | peptide_view.pl | Peptide View, ET match, Use of uninitialized value in subroutine entry |
| 14302 | nph-mascot.exe | mzML file with a very large peak list segfaults nph-mascot.exe |

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| 14315 | HTTP | Add getStage method to ms_http_client_search |
| 14320 | Documentation | Update Doxygen to version 1.9.6 |
| 14323 | MS1 Quantitation | ms_ms1quantitation should allow a search without a quantitation method to load replicate or average results |
| 14326 | ms-config.exe | View modifications, linkers, quant method, crosslinking method from MSR file (ms-config.exe) |
| 14331 | System | Adapter interface for ML predictors, which inserts custom columns to pip file |
| 14337 | Documentation | Roll-up of changes to API doc and release notes for 2.9 |
| 14344 | Installer | Unable to install on Windows 10 21H2 due to "QueryIISConfig: Failed to wait for child process (0x80070006)" |
| 14357 | External Processes | Ship Mascot Daemon Export Extender with Daemon |
| 14361 | Search results | ms_inputquery::getPeakMass(): Ions2 and Ions3 lines are missing the first peak |
| 14362 | export_dat_2.pl | pep_isbold field is confusing |
| 14371 | nph-mascot.exe | Heap Buffer Overflow when copying data from the nodes |
| 14377 | Search results | getQmatch() returns INT_MAX if called with non-existent query number, should return 0 |
| 14389 | Search results | Implement schema changes for MSR v0.99; implement MSR parsing/processing for v0.99; fix bugs in MSR parsing/processing; implement schema changes for SDB v0.99; implement SDB writing/processing for v0.99; fix bugs in SDB parsing/processing; rename headers |
| 14390 | nph-mascot.exe | nph-mascot.exe, write search results in MSR v0.99 format |
| 14392 | Test harness | Add MSR files to the Parser test harness |
| 14396 | Parameters | When selecting data file format for Distiller, set processing option file to the default for that instrument |
| 14415 | client.pl | Add an interface to client.pl to remotely initiate percolator, and then track progress |
| 14422 | HTTP | Support MSR file download in ms_http_client_search::downloadResultsFile() |
| 14423 | search_form.pl | Add Percolator controls to the search form |
| 14429 | nph-mascot.exe | Embed a 'slim'.dat file in the Mascot Search Results (MSR) file |
| 14432 | Utilities | Add streaming decompression to ms_zip |
| 14433 | Errors & warnings | Parser should give a warning if reading a file from future version of Mascot |
| 14441 | Search results | New Parser class for retrieving MSR file in .dat format |
| 14445 | Configuration files | New option AlwaysCreateDat28ResultsFile |
| 14446 | Installer | Update SwissProt, PRIDE_contaminants and taxonomy files in shipper package for 3.0 |
| 14447 | search_form.pl | Add clarification to "Peptide charge" search parameter that it's a fallback default |
| 14457 | ms-status.exe | ms-status.exe Show=RESULTFILE needs to print MSR in binary format |
| 14462 | System | Drop Windows Vista, 7, 8, Server 2008, Server 2008 R2 and Server 2012 |
| 14466 | Installer | Ownership in shipper tar package on Linux should be root:root |
| 14469 | export_dat_2.pl | mzIdentML export specifies UseUnigeneClustering=1 and IncludeErrorTolerantMatches=1 when it shouldn't |
| 14481 | Search results | All methods of ms_inputquery should be const |
| 14483 | Search results | ms_inputquery::getNumUsed() always returns 0 despite docs say it always returns -1 |
| 14497 | ms-searchcontrol.exe | Move results_file_mime2 implementation from client.pl to ms-searchcontrol.exe |
| 14498 | ms-searchcontrol.exe | New command ms-searchcontrol.exe --result_file_sql |
| 14499 | ms-searchcontrol.exe | ms-searchcontrol.exe --result_file_mime should return dat28 format stream if input is MSR |
| 14501 | ms-monitor.exe | Stop creating obsolete config files (mod_file, masses, substitutions) if CreateLegacyModAndSubstitutionFiles is false |
| 14515 | Results display | Hide the quantitation summary context menu if you don't have the "Task Database" node selected or allow the summary to be run by selecting specific searches |
| 14516 | Results display | Quantitation summary disabled for reporter datasets if you don't have the Daemon toolbox |
| 14530 | ms-makesearchlog.exe | Support MSR files in ms-makesearchlog.exe |
| 14531 | ms-searchcontrol.exe | Add MSR support for ms-searchcontrol.exe commands --create_results_cache, --results_cache_status, --results and --results_header |
| 14532 | client.pl | When using client.pl commands kill_job and nice_job from the command line, and if sessionID argument gives an invalid session, the script mistakenly defaults to the command line session |
| 14533 | client.pl | Switch from task-based to results-based permission check for client.pl commands result_file_mime, result_file_ini, results, xmlresults and results_header (only user spoofing is affected) |

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| 14537 | ms-searchcontrol.exe | Disallow downloading MSR file using client.pl?result_file_ini |
| 14544 | Masses | Change ms_modfile private member std::auto_ptr<ms_masses> to std::unique_ptr |
| 14546 | master_results_2.pl | Inadequate browser caching in Protein Family Summary when Mascot Security is enabled and using guest session or web authentication or IP/hostname/agent string authentication |
| 14548 | Search results | Clarify protein inference rules for multi-SL searches with same or different reference databases |
| 14549 | Search results | Display emPAI in integrated error tolerant searches |
| 14551 | Search results | ms_searchparams::getLIBRARY_SEARCH() returns -1 when LIBRARY_SEARCH=1 in search params |
| 14552 | System | Remove ms-lockmem.exe |
| 14553 | Configuration files | Remove ms_mascotoptions::getSeparateLockMem() |
| 14554 | Building | Compile SWIG modules with GCC11 and VS2019 (Perl, Python, C#, Java) |
| 14558 | Building | Update SWIG to 4.2.1 |
| 14560 | System | Use the VS2019 and GCC 11 Perl modules with Mascot |
| 14571 | Search results | Unstable order of sameset accessions in integrated SL searches |
| 14575 | nph-mascot.exe | Incorrect fragment charge (Ions1_charge) when using Bruker XML input |
| 14576 | nph-mascot.exe | Automatic target-decoy by default |
| 14577 | Installation | Add wrapper for Perl 5.36 on Linux |
| 14578 | Search results | Add new method ms_mascotresfilebase::getSLExecCommand() |
| 14584 | Database Manager | Environmental_EST parse rule has changed; remove obsolete IPI databases; and SARS-CoV-2 is moved from pre-release to official Uniprot database |
| 14588 | MS2 Quantitation | Add accessor method ms_ms2quantitation::getPeptideSummary() |
| 14590 | MS1 Quantitation | Update mergeCdbFiles and mergeXmlFiles to support msr |
| 14591 | Daemon | Display and write a warning to the event log when the installation drive is low on space |
| 14593 | ms-searchcontrol.exe | Failing to fetch protein description for top hit in integrated spectral library search if top hit is not from SL |
| 14596 | export_dat_2.pl | If export_dat_2.pl ends with an error, the error message is duplicated in HTML output |
| 14598 | ms-status.exe | Remove BrowserSafe parameter from ms-status.exe; always use text/plain with Show=RESULTFILE when results file is dat28 format |
| 14600 | Daemon | Capture and check standard error if about to report MDS1129 with no error message |
| 14604 | nph-mascot.exe | Set SQLite application_id for MSR files |
| 14605 | nph-mascot.exe | Update Mascot Server version and schema version to final ones for beta release |
| 14614 | search_form.pl | Search form controls for Unimod classifications with error tolerant search |
| 14615 | Parameters | Search params for Unimod classifications with error tolerant search |
| 14628 | nph-mascot.exe | Support repeat searching from MSR file |
| 14629 | TaskDB | Allow user to delete multiple tasks from Daemon |
| 14636 | Utilities | ms_fileutilities::getLastModificationTime() fails on Windows if the file has been opened without shared read access |
| 14637 | Installation | Drop version-specific Python libraries and ship a single 'universal' library |
| 14645 | ms-createtime.exe | Median precursor error is missing the match to the last query |
| 14647 | Search results | New argument to ms_mascotresfilebase::setPercolatorFeatures(): a vector of ML adapter parameters |
| 14649 | Search results | ms_mascotresfilebase constructor, if XMLschemaDirectory is empty string, treat it the same as null pointer |
| 14665 | Configuration files | Add a ms_modification::getClassification() method |
| 14667 | master_results_2.pl | New format controls for activating MS2Rescore and selecting MS2PIP and DeepLC models |
| 14673 | Search results | ms_linker_site_vector fails to initialise alpha and beta peptide lengths to zero |
| 14674 | Configuration files | Add quantitation option to choose type of time alignment |
| 14682 | master_results.pl | Add a deprecation warning at the top of master_results.pl |
| 14686 | master_results_2.pl | Display machine learning quality report in Protein Family Summary |
| 14691 | System | Include new third-party Perl modules: TOML::XS, Devel::NYTprof, MIME::Lite, DBD::SQLite |
| 14692 | Installation | Internal shipper for Perl 5.38 built with VS2019 and GCC 11 |
| 14696 | search_form.pl | Remove obsolete support for Isf.dat in the search form |
| 14702 | nph-mascot.exe | NA translation looks wrong in error tolerant decoy search against an NA database |
| 14703 | ms-createtime.exe | ms-createtime.exe should not write match data for chimeric duplicates |
| 14704 | ms-createtime.exe | ms-createtime.exe calculates -nan(ind) for RMS, RMSppm, meanAbsFragDa, |

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| | | meanAbsFragPPM |
| 14707 | Configuration files | ms_datfile::updateForInstaller(), Replace ResultsCache with a default |
| 14714 | Quantitation Summary | Support replicate quantitation via the quantitation summary |
| 14716 | peptide_view.pl | Default Peptide View to annotating all fragments, not just matched fragments |
| 14718 | System | Default to sequence FDR in Mascot Server |
| 14721 | System | Increase SplitNumberOfQueries to 2000 |
| 14732 | get_params.pl | New CGI script get_ml_adapter_params.pl to list the available ML adapter parameters |
| 14743 | refine_results_with_ml.pl | New executable refine_results_with_ml.pl for backend use |
| 14744 | client.pl | client.pl?create_results_cache and client.pl?results should default to Percolator and ML adapter params specified as search parameters |
| 14745 | System | Default report scripts to Percolator and ML adapter parameters defined in the search form |
| 14746 | nph-mascot.exe | Pass through PERCOLATE and ML_ADAPTER_PARAM search parameters |
| 14748 | Search results | New methods ms_searchparams::getPERCOLATE() and ms_searchparams::getML_ADAPTER_PARAM() |
| 14749 | Search results | When setting Percolator flag in ms_mascotresfilebase::get_ms_mascotresults_params(), check the new search param PERCOLATE, then mascot.dat options |
| 14750 | Search results | ms_mascotresfile::get_ms_mascotresults_params() treats DECOY=-1 as DECOY=1 when deciding whether to set MSPEPSUM_PERCOLATOR |
| 14752 | Search results | ms_mascotresfilebase::get_ms_mascotresults_params() should not set MSPEPSUM_PERCOLATOR for error tolerant search |
| 14754 | MS2RescoreReport.py | Change machine learning quality report template so it has Matrix Science branding |
| 14755 | tidy_data.pl | tidy_data.pl needs to delete old pip and pop files |
| 14759 | nph-daemon_helper.pl | Remove nph-daemon_helper.pl (legacy script for ABI GPS Explorer) |
| 14766 | Installation | Update unimod.xml and unimod_xl.xml to the latest versions for 3.0 |
| 14775 | Building | Python msparser library cannot be used with xgboost or tensorflow libraries |
| 14776 | Configuration files | ms_datfile::updateForInstaller(), change SplitNumberOfQueries from 1000 to 2000 |
| 14777 | Configuration files | New option CreateLegacyModAndSubstitutionFiles |
| 14778 | Configuration files | New option AlwaysEnableAutoDecoySearch |
| 14782 | System | Ship unimod_tables.xml with Mascot |
| 14783 | master_results_2.pl | Always expand Sensitivity and FDR section in Protein Family Summary |
| 14784 | master_results_2.pl | Remove "Not what you expected" link |
| 14785 | Configuration files | ms_datfile::updateForInstaller(), set PercolatorUseRT to 0 |
| 14786 | master_results_2.pl | Display a warning if percolate_rt=1 or PercolatorUseRT is enabled |
| 14788 | search_form.pl | Hide Monoisotopic/Average choice in search form |
| 14789 | Configuration files | New mascot.dat option SearchSubmitAcceptedFileTypes |
| 14790 | search_form.pl | Hide obsolete file formats from search form |
| 14791 | export_dat_2.pl | Remove DTASelect and pepXML as export format choices |
| 14795 | MS1 Quantitation | ms_ms1quant_time_align::getRToffset() looks in wrong part of array in some cases |
| 14797 | Configuration files | LabelAll option is obsolete |
| 14798 | ms-config.exe | ms-config.exe needs to download unimod_tables.xml when user clicks Check Unimod |
| 14811 | Configuration files | Quantitation method for TMT 32/35-plex |
| 14812 | ms-creategpip.exe | Percolator features based on matched fragments are incorrectly calculated. |
| 14814 | search_form.pl | Default target FDR to 1% in the search form |
| 14818 | search_form.pl | Javascript error in SQ search form |
| 14820 | Search results | Default to sequence FDR in get_ms_mascotresults_params() |
| 14821 | MS1 Quantitation | getRToffset() code is not treating the "to" consensus and "from" consensus properly |
| 14825 | Import filters | Make peak picking with the Distiller Daemon Toolbox Processor group aware on Windows 11 based systems |
| 14829 | Parameters | Daemon should take the list of peaklist formats from the SearchSubmitAcceptedFileTypes Mascot.dat option |
| 14833 | Search results | Change behavior of ms_mascotresfilebase::get_ms_mascotresults_params() to set the target FDR |
| 14834 | dbman_scan_for_library.pl | Set target FDR to zero when creating MSP file so that homology threshold (reported as hs=metadata field) is consistent |
| 14837 | master_results_2.pl | Prevent refining results if the search is sequence query with no MS/MS data |
| 14842 | ms-status.exe | ms-status.exe Show=MS_MODFILE should return mod_file contents from unimod.xml |

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| 14844 | Configuration files | Add new method ms_masses::saveToString() |
| 14848 | ms-createpip.exe | The isoSysDMz feature is set to Inf when the query charge is unknown |
| 14849 | client.pl | Implicitly create pop files (refine results) when calling client.pl?result_file_pop |
| 14850 | ms-createpip.exe | ms-createpip.exe sometimes crashes when calculating the median precursor error |
| 14858 | System | Supply ms-win8-perl538.exe with Mascot on Windows to work around Perl 5.38 locale bug on Windows 8.1/Server 2012 R2 when active code page is not Latin1 or Unicode |

何かお困りのことがありましたら support-jp@matrixscience.com (技術サポート)にご連絡ください。



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