

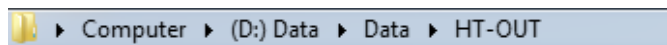
Utilizing .XML files for MicrobeNet MALDI Classification

Purpose

This document serves as a follow-up to the Standard Operating Procedure titled *Activate MALDI Biotyper Project Export Setup for Searching MicrobeNet MALDI TOF Library* which creates an automatic creation of a MicrobeNet-compatible XML file that can be uploaded for classification on MicrobeNet for secondary identification using CDC-developed libraries.

Phase 1: Automatic Generation of .XML file

Follow the directions for downloading the required patches that will automatically create .XML files that are compatible with MicrobeNet. Information for downloading these patches can be found in the following protocol: *Activate MALDI Biotyper Project Export Setup for Searching MicrobeNet MALDI TOF Library*. This patch will create a new folder, titled HT-Out, in the D: drive of your Biotyper computer.



This folder will automatically store XML files for MicrobeNet use.

Note: If MALDI MBT Computer does not have internet connectivity, this file will need to be transferred via flash drive to an Internet-Compatible Computer.

PHASE 2: Utilizing the MicrobeNet Classification Search

First, sign into MicrobeNet. In the MicrobeNet user home page, Use the Navigation icon to locate the “Classification Task” (Orange Box) section under Mass Spectrometry. This will direct you to the MALDI-TOF module in MicrobeNet.

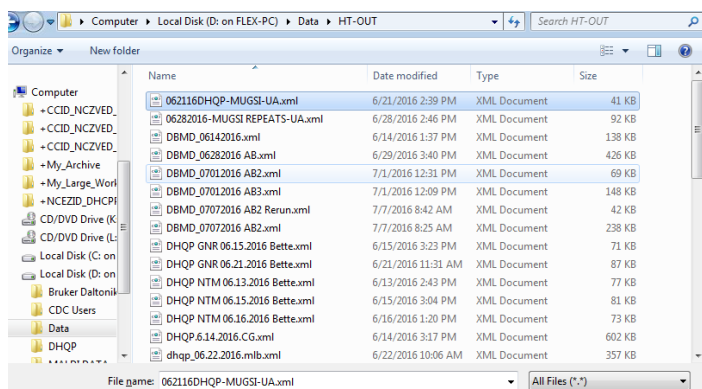
The image shows the MicrobeNet user home page and a navigation sidebar. The home page features a top navigation bar with a search bar and a user profile. Below this, there are several sections: 'Samples' with 'MY SAMPLES' and 'ORGANIZATION SAMPLES' counts, 'Most Recent Blast Searches', 'Sequences' with a '7,007 TOTAL' count, and 'Taxonomy' with a donut chart showing '14,153 TOTAL' and a breakdown of '11,980' (100%), '2,087' (14%), and '106' (0.7%). The navigation sidebar on the right lists various modules: 'PHENOTYPIC TESTING', 'NEW SAMPLE', 'MANAGE SAMPLES', 'MANAGE PANELS', 'SEQUENCE ANALYSIS', 'BLAST SEARCH', 'BLAST HISTORY', 'MASS SPECTROMETRY', and 'CLASSIFICATION TASK' (highlighted with an orange box).

The image shows the 'Create Task' and 'Task List' interface in MicrobeNet. The 'Create Task' section has a 'Select peak list file to upload' field with a 'BROWSE' button, a 'Select Classification Library' dropdown, and an 'UPLOAD FILE' button. The 'Task List' section shows a table of tasks with columns for JOB ID, COMMENT, CREATOR, CREATED, COMPLETED, STATUS, and LIBRARY. A 'REFRESH' button is located at the top right of the task list.

JOB ID	COMMENT	CREATOR	CREATED	COMPLETED	STATUS	LIBRARY
SBRL_20160420.JG.Outbreak-Environmental		Jarrett Gartin	5/2/2016 1:12:19 PM	5/2/2016 1:14:53 PM	DONE	Merged
★ SBRL_20160420.JG.Outbreak-Environmental		Jarrett Gartin	5/2/2016 1:10:55 PM	5/2/2016 1:13:34 PM	DONE	Merged
★ DHQP Sentinel E 254-287 313-324 4-26-2016 B/W		Jarrett Gartin	5/2/2016 1:10:46 PM	5/2/2016 1:20:06 PM	DONE	Merged
SBRL_20160329.JG.Environmental_2		Jarrett Gartin	5/2/2016 11:02:49 AM	5/2/2016 11:04:35 AM	DONE	Merged
SBRL_20160422.JG.Outbreak		Jarrett Gartin	5/2/2016 11:02:23 AM	5/2/2016 11:03:07 AM	DONE	Merged
SBRL_20160421.JG.Environmental		Jarrett Gartin	5/2/2016 11:02:17 AM	5/2/2016 11:02:34 AM	DONE	Merged
SBRL_20160329.JG.Environmental_2		Jarrett Gartin	5/2/2016 11:02:05 AM	5/2/2016 11:03:57 AM	DONE	Merged
SBRL_20160405.JG.Environmental_1		Jarrett Gartin	5/2/2016 11:01:41 AM	5/2/2016 11:02:08 AM	DONE	Merged
★ SBRL_20160406.JG		Jarrett Gartin	5/2/2016 11:01:32 AM	5/2/2016 11:01:33 AM	DONE	Bruker
★ SBRL_20160406.JG		Jarrett Gartin	5/2/2016 11:01:26 AM	5/2/2016 11:01:28 AM	DONE	CDC
SBRL_20160406.JG.Outbreak_2		Jarrett Gartin	5/2/2016 11:01:19 AM	5/2/2016 11:01:33 AM	DONE	Merged

Three Steps to Uploading File

1. Red Box: Browse to downloaded files and select.



2. Blue Box: Select the desired Classification Library

- Bruker – Generic BDAL Library
- CDC – MicrobeNet’s SME-Curated Library
- Merged – Combined Bruker and CDC Libraries

Select Classification Library

Bruker

CDC


Bruker-CDC (Merged)

3. Orange Box: Click to upload and run

The classification will automatically run, click ‘Refresh’ (Green Box) to update the status of run.

The Results Page

Upon successful uploading of classification, the Task name will become a hyperlink and will link to the reports page. This page may be interpreted in the same manner as a Biotyper Real-Time Classification run. Please note that each species identification is hyperlinked to that particular species’ MicrobeNet page for further information.



Search...

Jarrett Gartin

Task Result

SBRL_201600617 JG Outbreak

Created: 7/7/2016 1:50:51 PM
By: Jarrett Gartin

Showing 1 to 3 of 3 entries

Search Within Results:

	ID	NAME	POSITION	CHIP	DETECTED SPECIES	SCORE	MATCH LIBRARY	COMMENT	DESCRIPTION	
+	16-283		E12	0	Elizabethkingia genomospecies	2.451			Elizabethkingia genomospecies	VIEW PEAKLIST
+	16-283		E11	0	Elizabethkingia genomospecies	2.459			Elizabethkingia genomospecies	VIEW PEAKLIST
+	16-283		E10	0	Elizabethkingia genomospecies	2.487	CDC		Elizabethkingia genomospecies	VIEW PEAKLIST

Show entries

Previous Next