Cogent™ NGS Immune Profiler v1.0 Quick Start Guide

The following information is provided as a high-level introduction to the software. For more detailed information, please see the Cogent NGS Immune Profiler Software v1.0 User Manual.

Before You Begin

A. Review the End User License Agreement

IMPORTANT: See note on page 2 of this document.

- B. Supported operating systems
 - Mac OS X: El Capitan (Version 10.11 and up)
 - Linux: CentOS 6 or higher, RedHat 7.5 or higher
- C. Hardware requirements
 - Memory: 16 GB RAM
 - Free disk space: at least 100 GB available hard drive space
- D. Additional software dependencies
 - Java 1.8 or higher
 - Python 3.6 or higher
- E. Required input files
 - FASTQ files generated by an Illumina® sequencing platform
 - CSV metadata file

Confirm Java & Python versions

NOTE: To bring up a terminal window on a Mac, go to the search box, type in 'Terminal' and press [Enter].

 Verify Java is installed and meets or exceeds the required version by typing the following into a terminal window:

java -version

• Verify Python3 is installed and the default version by typing the following into a terminal window:

python3 -V or python3 -version

NOTE: If Python3 is installed and this command returns an error, please contact <u>technical support</u> for additional assistance.

• Verify the required Python modules are installed by typing the following into a terminal window:

python3 required python module check.py

If any modules are listed as missing, install them before proceeding. For help, go to:

https://docs.python.org/3/installing/

Installation

1. Download the Immune Profiler software from takarabio.com/ngs-immune-profiler

NOTE: Make sure to download the version for the operating system it will be installed on.

- If the Takara Bio Immune Profiler was previously installed on the same computer as the Cogent NGS Immune Profiler will be installed, proceed to step 2
- If this is a new install, skip to step 3
- 2. (Uninstall the previous version)
 - a. If you want to save any previous output files stored in the immune_profiler/ directory, make sure to move them to another folder location before continuing.
 - b. Delete the immune_profiler/ directory and all subfolders.
- 3. (Install the new version): On the computer on which Immune Profiler is to be installed, unzip the Immune Profiler software package downloaded in Step 1 into the folder location of your choice.

To run the Immune Profiler:

UI (Mac-only):

- 1. Double-click on the executable (Immune Profiler)
- 2. Fill out the fields in the interface
- 3. Click [Start]

Command line (Mac and Linux):

python3 immune_profiler.py -r <RECEPTOR>
-f <FASTQ> -m <METADATA> -o <OUTPUT>
-t CDR3

where:

- <RECEPTOR> is the immune cell receptor type of the data being processed (options: TCR -or- BCR)
- <FASTQ> is the full path of the FASTQ folder
- <METADATA> is the filename (including the full path) of the metadata file
- <OUTPUT> is a string; it will be the name of the output folder created by the analysis AND the prefix of all the results files
- CDR3 is the target regions reads should map to



End User License Agreement

Immune Profiler incorporates two third-party programs, MIGEC and MiXCR, packaged and included for use only with this software under an <u>end-user license agreement (EULA)</u>, acceptance of which requires the Immune Profiler user to be bound by and to comply with the terms before downloading and using Profiler.

IMPORTANT: Checking the box next to the <u>EULA</u> acceptance statement before submitting the completed form constitutes accepting and legally binding the Immune Profiler user to the terms of the EULA.

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