

# *EndogeSeq*

(Version 1.x)

## Installation and Update Guide for Windows

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# Introduction

EndogeSeq is an omics processing package engineered for Peptidomic research, the study of endogenous peptide products within biological matrices. In particular, this software does not assume relationships between detected peptides under a common parent protein, or the in-lab digestion with trypsin or other proteases, and is designed for quantitative analysis on the direct peptide measures within a set of samples. However, tools within EndogeSeq may be useful in processing other omic data (proteomic, metabolomic, etc.) that take advantage of the same general workflow: ion alignment across replicate samples by chromatographic retention time, ion mobility drift time and accurate precursor mass; filtering of replicating ion events with the option of offline statistical analysis; spectral identification (currently peptides only) against a FASTA database; or interrogating the presence of spectra matching a target peptide sequence(s).

At present, EndogeSeq is written to work with Waters time-of-flight mass spectrometer data generated in MS<sup>E</sup> / HDMS<sup>E</sup> modes of data-independent acquisition (Synapt or Xevo G2 or later). Raw data must first be processed using Apex3D and Peptide3D executables available under Waters Protein Lynx Global Server software, which produces peak-list data in an open XML format.

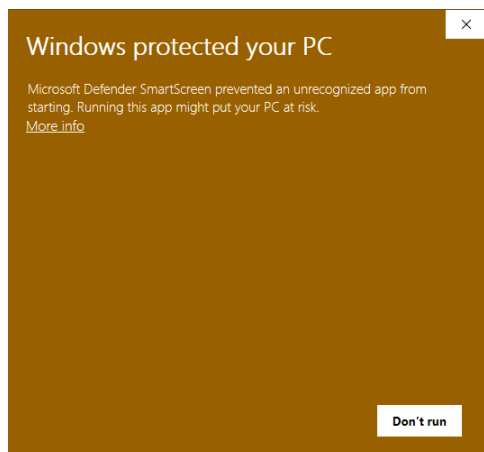
This guide walks through initial setup of EndogeSeq, which provides both graphical and command-line interfaces to process MS<sup>E</sup> / HDMS<sup>E</sup> handled.

## Installation Package

EndogeSeq is released for installation on a contemporary version of Windows 10, and should also work on Windows Server (not tested). The software is packaged into a single installation file called EndogeSeqSetup\_x.xx.xx.xx.exe with the software version indicated by the ending series of digits. The first digit indicates the major version number (i.e., version 1.x) while the remaining digits are the compile date as year, month and day. ***This package is designed for both new installations and to update existing installation of EndogeSeq ver. 1.x with the latest code release.***

## Installation / Update

1. Double click the installation executable file to begin installation. As non-commercial, research

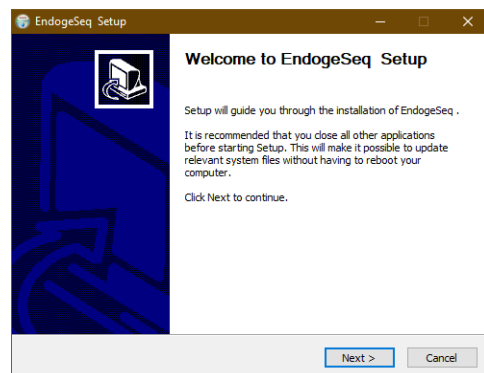


software, we have not purchased a code signing certificate for EndogeSeq. Consequently, windows may give you a warning about installing an unrecognized apps as shown at left.

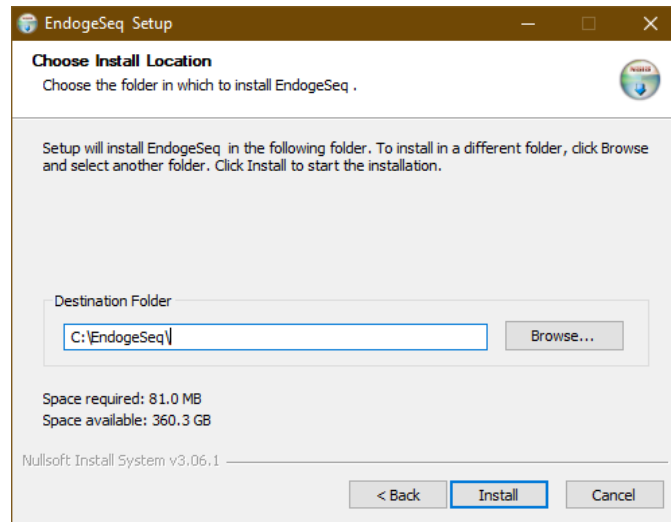
2. Click "More Info" and "Run anyway" to proceed.

3. You may then be warned again by the Windows "User Access Control" about installing an unrecognized app. Click "Yes" to proceed.

4. You should then enter EndogeSeq Setup (at right). Click "Next" to proceed.

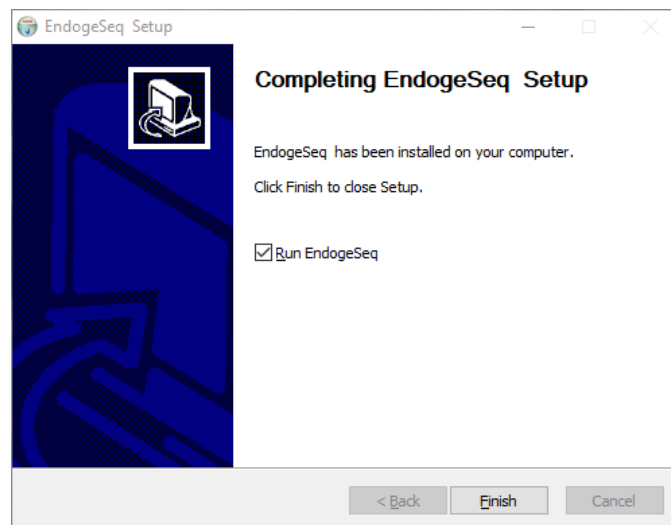


5. Choose where you wish to install the software. The default is C:\EndogeSeq. You may change the drive letter and directory; however, it is recommended to not install EndogeSeq under a Windows-protected folder (e.g., C:\Program Files, C:\Windows, etc) as this can mandate administrative privileges during execution.



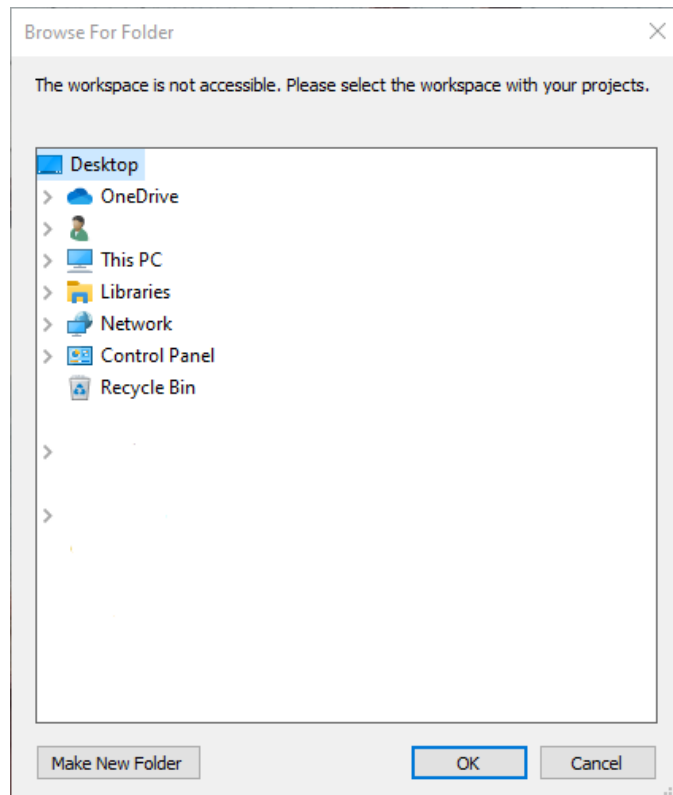
**During an Update:** If updating an older version of EndogeSeq, the installer will automatically populate the “Destination Folder” box with the prior installation folder path.

6. Click "Install" to proceed. The installer will begin the process of extracting files and adding required windows registry settings, with progress appearing in the pop-up window (progress is quick). When complete, you will see the following box. By default, the “Run EndogeSeq” checkbox is selected, which will launch EndogeSeq for the first time once you click “Finish”.

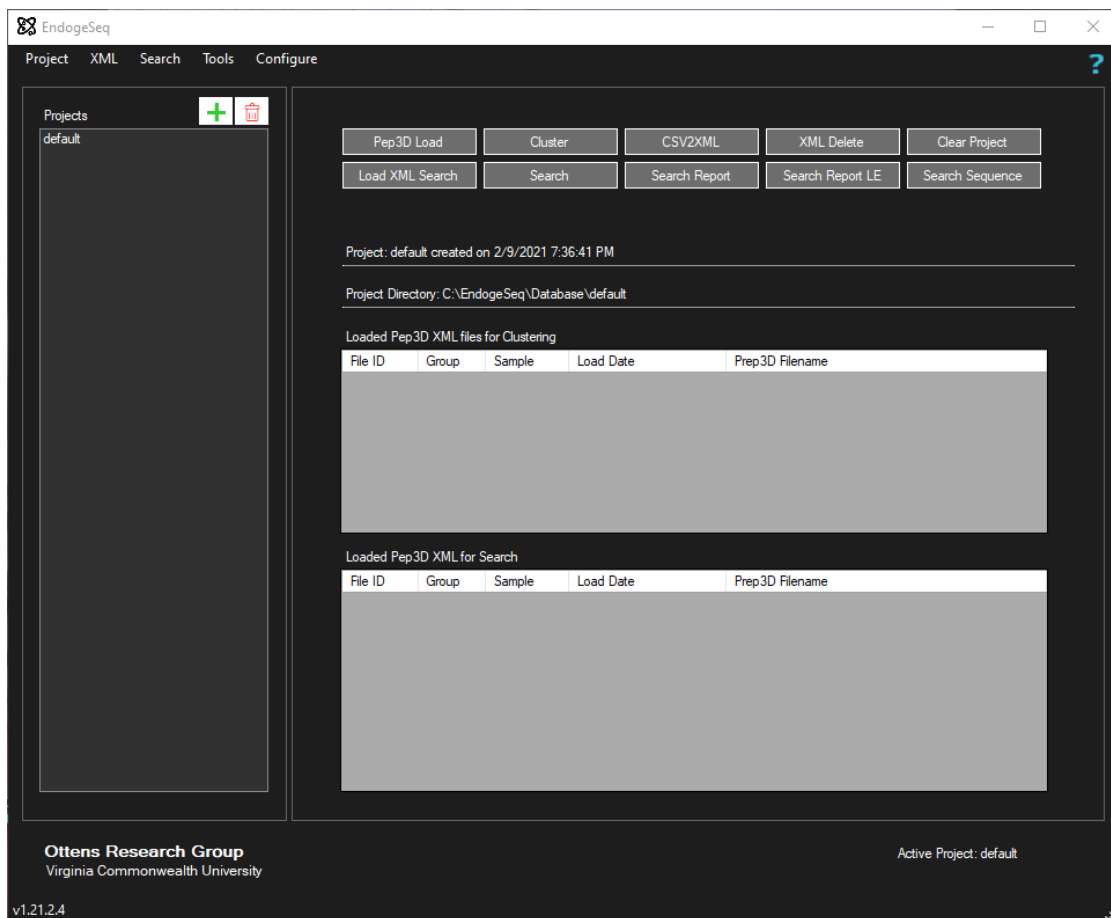


**During an Update:** If updating an older version of EndogeSeq, the installer will only overwrite core components updated since the prior release of EndogeSeq Version 1.x already installed on your system.

7. If this is the first time you are installing EndogeSeq, the following “Browse for Folder” box will open requiring you to specify a “Workspace” location. Navigate to where you wish all EndogeSeq project data to be stored, the “Workspace”. A suggested location is the “C:\EndogeSeq\Database” folder created during installation; however, you may want to create a project data folder on a separate drive (e.g., with a large capacity or on a network share drive that is backed up regularly). You can always change the “Workspace” location later from within EndogeSeq. After creating and/or selecting a “Workspace” folder, click “OK” to proceed.



8. Afterwards, the EndogeSeq GUI will automatically.



**Note:** Instructions for how to use EndogeSeq are provided in a separate EndogeSeq User Guide.