Protocol 2\_Installing SampleMiner.

1. Access SampleMiner repository in github at “<https://github.com/nabschriefer/SampleMiner>”.
2. Chose SampleMiner.py folder.
3. Download the raw source code of SampleMiner.py to a directory of preference in your computer, using the download icon button at the top panel located just above the raw code window. For example, create a “SampleMiner” folder at the “Applications” or “Program Files” directory in the current user folder on MacOS or Windows computers, respectively. On MacOS the path to this folder would be “Macintosh HD/Users/Current user/Applications/SampleMiner”. On Windows the path to this folder would be “C:\Program Files\SampleMiner”.
4. Open SampleMiner.py with an Integrated Development Environment (IDE) programming software. Anaconda Navigator provides some IDEs that can be used. Alternatively, a word processor may be used. Change the “[user@my.email](mailto:user@my.email)” at program lines 1871, 1953 and 2132 with the user’s E-mail information (keep the “” around the user’s E-mail address), and save SampleMiner.py again (just overwrite it). In case a word processor was used, save without text formatting option. NCBI Entrez requires this information in case it needs to contact the user.
5. Launch Anaconda Navigator, click the “Environments” tag at the left panel of the screen, then open a terminal with the “SampleMiner” environment by clicking the “SampleMiner” tag at the “Environments” window.
6. Run SampleMiner in the terminal screen loaded with the “SampleMiner” environment by entering the entire path to SampleMiner at the command prompt and pressing the Enter key. For example, enter “Macintosh HD/Users/Current user/Applications/SampleMiner /SampleMiner.py” on MacOS, then press enter at the computer’s keyboard, or enter “C:\Program Files\SampleMiner\SampleMiner.py” on Windows, then press enter at the computer’s keyboard.
7. After running SampleMiner for the first time the installation process will be finished. Now the SampleMiner Python script will have been installed in the local user “Applications” or “programs” directory and the entire folder structure used by SampleMiner during its routine execution will have been mounted in the user’s “Documents” folder. SampleMiner runtime folder structure consists of the “SampleMiner” folder and the “databases dictionaries”, “databases tsv files”, and “mined samples” subfolders, which present their own subfolders.