



# SEMC/NCCAT MicroED Symposium & Short Course. November 2023.

Data Processing Tutorial Preparation. DIALLS installation for Mac.

Download DIALLS here:

<https://dials.github.io/installation.html>

--Choose: dials-v3-16-1-macos-x86\_64.pkg

Save the .pkg file. Open and follow the installation prompts. Your computer will probably complain that it doesn't recognize the developer. Go to System Settings>Privacy & Security and click "allow anyway" to continue the installation). DIALLS will be installed in your /Applications folder.

After installing, add the following line to your .zshrc/.bashrc file\*\*:

`source /Applications/dials-v3-16-1/dials_env.sh`

\*\* (if this sentence is Greek to you, see the box below, if this sentence makes sense to you, you can skip the box):

```
Open a terminal (In Applications>Utilities>Terminal.app).
On the command line, navigate to your home folder by typing:
>cd ~
Then type:
>ls -a
Look for a .zshrc file. If you don't see one type:
>touch .zshrc
This will create a .zshrc which is a plain text file. Open the .zshrc file by typing:
>open -t .zshrc
Now you can copy/type this into that file:
source /Applications/dials-v3-16-1/dials_env.sh
Save and close the .zshrc file. Then close the existing terminal window and open a new one.
```

When you start a fresh terminal, you should be able to run DIALLS using the DIALLS commands.

Before starting the tutorial run this command to install the proper format class for DIALLS:

`>dxtbx.install_format -u`

[https://raw.githubusercontent.com/dials/dxtbx\\_ED\\_formats/master/FormatSMVCetaD\\_TUI.py](https://raw.githubusercontent.com/dials/dxtbx_ED_formats/master/FormatSMVCetaD_TUI.py)

The tutorial we will follow is here:

<https://dials.github.io/documentation/tutorials/3DED/Biotin.html>

Download the tutorial data to the directory you would like to process in. Data can be downloaded from:

<https://zenodo.org/records/4737864>

Download all four folders by choosing the "Download All" link.

The tutorial data is 2.3 GB of files.

Once you have done the installation and downloaded the files, you're ready to start the tutorial.

