PICRUSt2 wraps a number of tools to generate functional predictions from amplicon sequences.

https://github.com/picrust/picrust2/wiki

**Installation guide**

https://github.com/picrust/picrust2/wiki/Installation

```bash
ssh -Y lxlogin6.lrz.de (-l userID)
module load gcc/4.9
module load python
```

**Pre requisite installations**

https://github.com/picrust/picrust2/wiki/Pre-requisite-installations

- EPA-NG
- GAPP

**Setting up your PATH**

It is presumed that you have a "bin" directory within your home directory (e.g. "/bin") and this directory is within your PATH environment variable.

You will need to enter the directory containing these tools:

```bash
mkdir ~/DIR/placement_tools
cd placement_tools
```

**EPA-NG installation**

```bash
wget https://github.com/gavinmdouglas/epa-ng/archive/0.2.1-beta-dev.tar.gz
tar -xzf epa-ng-0.2.1-beta-dev.tar.gz
cd epa-ng-0.2.1-beta-dev
make
ln -s $PWD/bin/epa-ng ~/bin/
```

**GAPPA installation**

```bash
wget https://github.com/gavinmdouglas/gappa/archive/v0.0.0-dev.tar.gz
tar -xzf gappa-0.0.0-dev.tar.gz
cd gappa-0.0.0-dev
make
ln -s $PWD/bin/gappa ~/bin/
```

**After installing these pre-requisites, clone the repository**

```bash
git clone https://github.com/picrust/picrust2.git
cd picrust2/
```

**Install PICRUSt2 and other dependencies in a new conda environment**

```bash
conda env create -f picrust2-env.yaml
source activate picrust2
pip install --editable .
```
Run the tests to verify installation

pytest