ImageXpress Quick start

DONT

* Hold power button for more than 5 sec (this is a hard reset)
* Move objective revolver when pico is powered on

Starting

* Switch on Pico
* Switch on computer
* Pico glows green when ready
* Start CRX (Cell Reporter eXpress)
* Login with “MolDev”

Plate handling

* plate should be room temperature
* Don’t touch bottom of plate
* Lid can be left on
* Open pico chamber with green button
* Place plate in holder so all corners snap into place
* Close chamber with green button-> plate is fixed with spring
* Fluorescence staining: choose black plates with transparent bottom

Setting up -follow the flow of the left side menu

1. Confirm that pico is online
2. Choose your ‘measured’ plate (see below how measure your plate)
3. Choose channel
4. Set exposure -try with auto
5. Snap a quick picture (pico images A1 well by default, change if desired)

Determine the right focal offset for each channel

* Make a Z stack with e.g. focus steps 2/3 rage -6 -> +6
* Check the slices to determine the best offset e.g -2
* Fill in the offset -2 in setting for the tested channel
* Switch Z stack mode off

Acquisition settings

* % or tiles that are imaged
* Save your acquisition template/protocol, include your company name
* Choose your data storage location- *this setting is not saved*

Handling protocols

* Do not duplicate experiments. Better to save your protocol as template and edit it.
* You can launch an experiment from an already existing experiment which repeats the measurement and appends a new timepoint. This option in hidden behind the three dots in the menu.

Measure your plate

* Get the name of your plate and the plate measurements
* In ‘configuration’ choose ‘new plate type’
* Duplicate an existing similar plate
* Rename the copy
* Check and correct the measurements listed
* ‘measure the plate’ can automatically measure and correct z axis values (bottom thickness and clearance) NOT x and y - These need to be correct.
* Save the measured plate as “platename\_as measured”
* Re-measure whenever you use a new batch of the same plate

Trouble shooting tips

* There is a help function in the software
* Pico has forgotten data storage location
	+ Right-click “restart CRX” shortcut on desktop -> run as administrator
* Pico dos not connect
	+ Configuration-> devices-> refresh