

RatioMetric Plugin

A small plugin to quantify the ratio imaging based on intensity of image pairs

Step 1: Calibration

A. pH-ratio pairs



Way #1

- a) Input pH value
- b) select a ROI in the image
- c) click Add to input one value

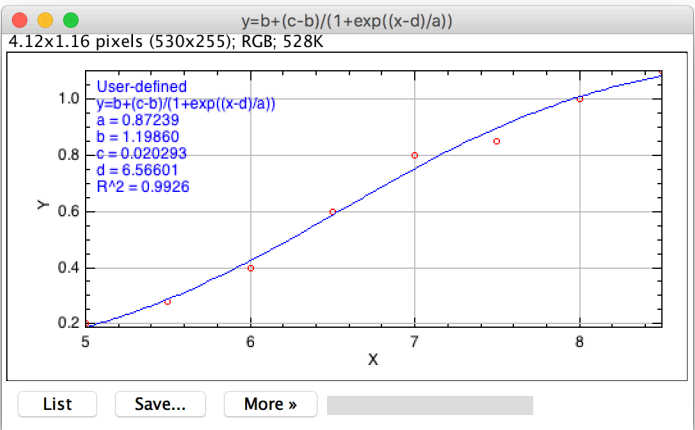
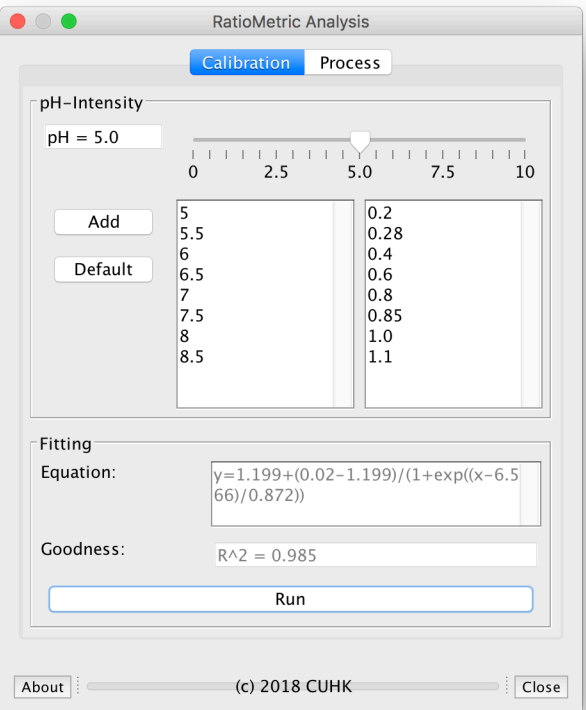
Way #2

- a) Click Default button
- b) Change the values

> **Way #1** is to automatically compute the ratio given the ROIs chosen.

> **Way #2** is to input known pH and ratio pairs.

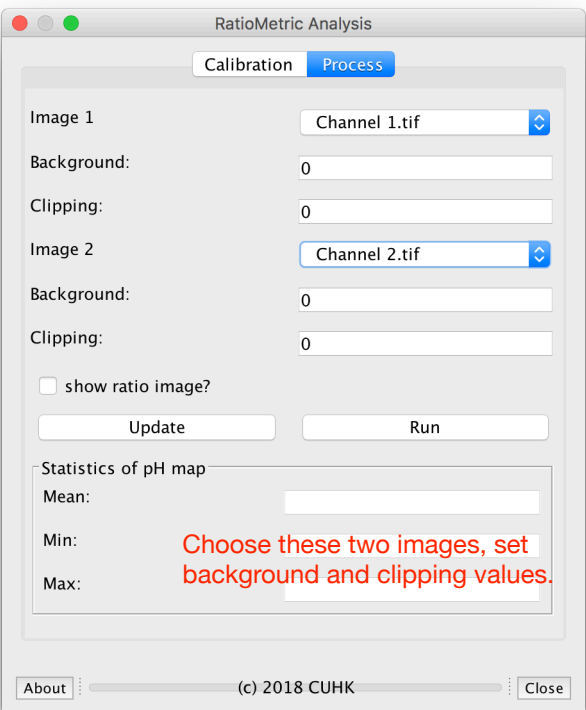
B. Fitting an equation



Fitting equation is shown and the fitting goodness is computed.

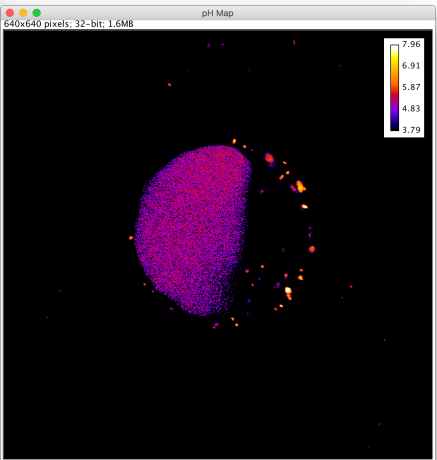
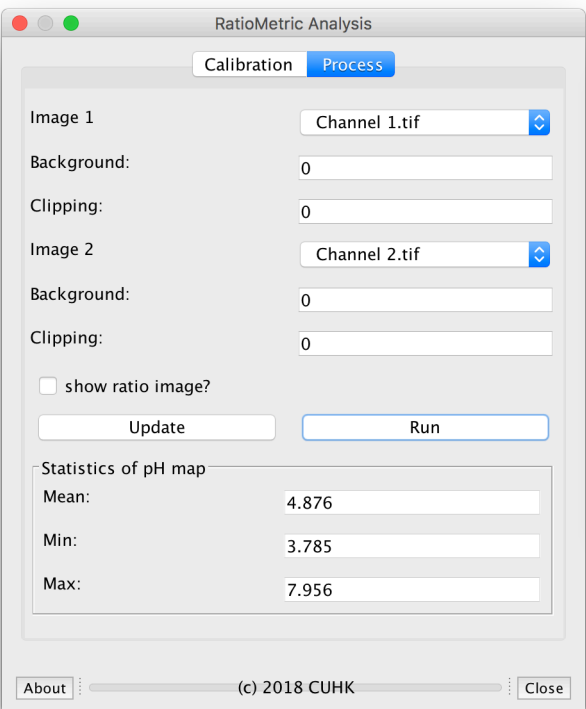
Step 2: Process

A. Select Images



Choose these two images, set background and clipping values.

B. Run computation



> The ratio image is first computed.

> The corresponding pH map is shown and the statistics of this map is given.