

EXAMPLE1
Oct 10, 2019
Matthias Schmidt

This example illustrates rigid registration with an artificial data set.
The images are already scaled but are of different pixel sizes and orientation.

- 1.) open FIJI
- 2.) run correlia
 - a) select base.tif as canvas image for the project
 - b) name the image "base"; your name in the field "experimenter"
- 3.) change the project name to "example1" (project->project properties)
- 4.) add "detector1.tif" to the project (project->add image to project)
 - a) name the image "detector1" and type "scientist1" in the field "experimenter"

You should now see the image in the image list of the project.

- 5.) select "detector1" and change its colour to red.
- 6.) use the automatic registration (mutual information) to align the image properly onto the base
select only "translation"

This results in the project state "example1_a"

- 7.) add "detector2.tif" to the project by repeating steps 4 and 5 (replace "1" by "2" and select colour green)
- 8.) register "detector2" onto "base"
 - a) rough registration using the arrows
(hint clicking on the symbol in the centre will change from coarse to fine reaction)
 - b) use auto registration but allow for translation, rotation and scaling (may take a while)

Project state: "example1_b"

- 9.) add "detector3.tif" to the project, select a blue colour
- 10.) select detector3 and click on the image and transform it into an 8bit greyscale image using FIJI tools
- 11.) align it like "detector2"
- 12.) add "detector4.tif" to the project and align (auto, translation)

Project state: "example1_c"

- 13.) switch detector4 to invisible
- 14.) enhance colour of detector1

Project state: "example1_d"