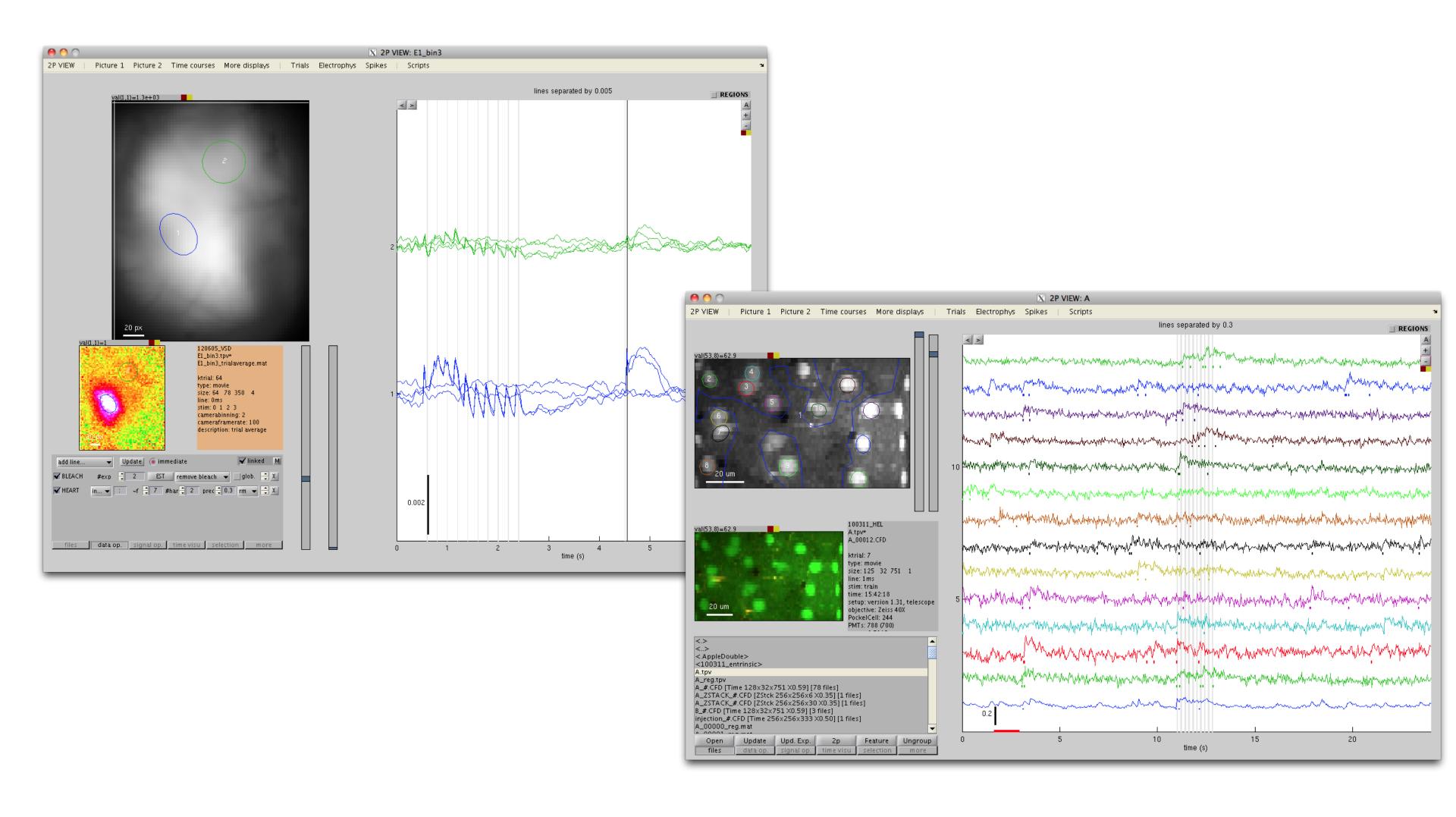
#### 2PVIEW documentation



#### Installation

#### INSTALLATION

- Start Matlab
- Go in menu Files > Set path... and add the 4 directories 'brick', 'fn4Dtoolbox', 'twophoton' and 'oifun' (do not check the box 'add subdirectories')

#### START THE PROGRAM

type tpview in the Matlab command

#### I. Quick Tour

- 1) Manipulation of the data
- 2) Display of the data
- 3) Other useful tools

# 1) Manipulation of the data

a. Open the data

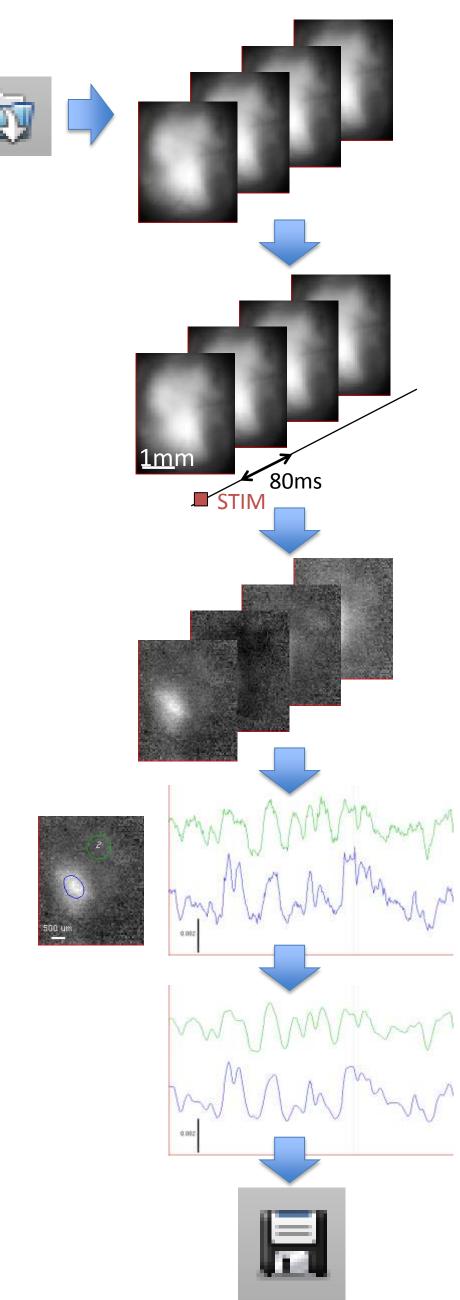
b. Header information

c. Operations on movie data

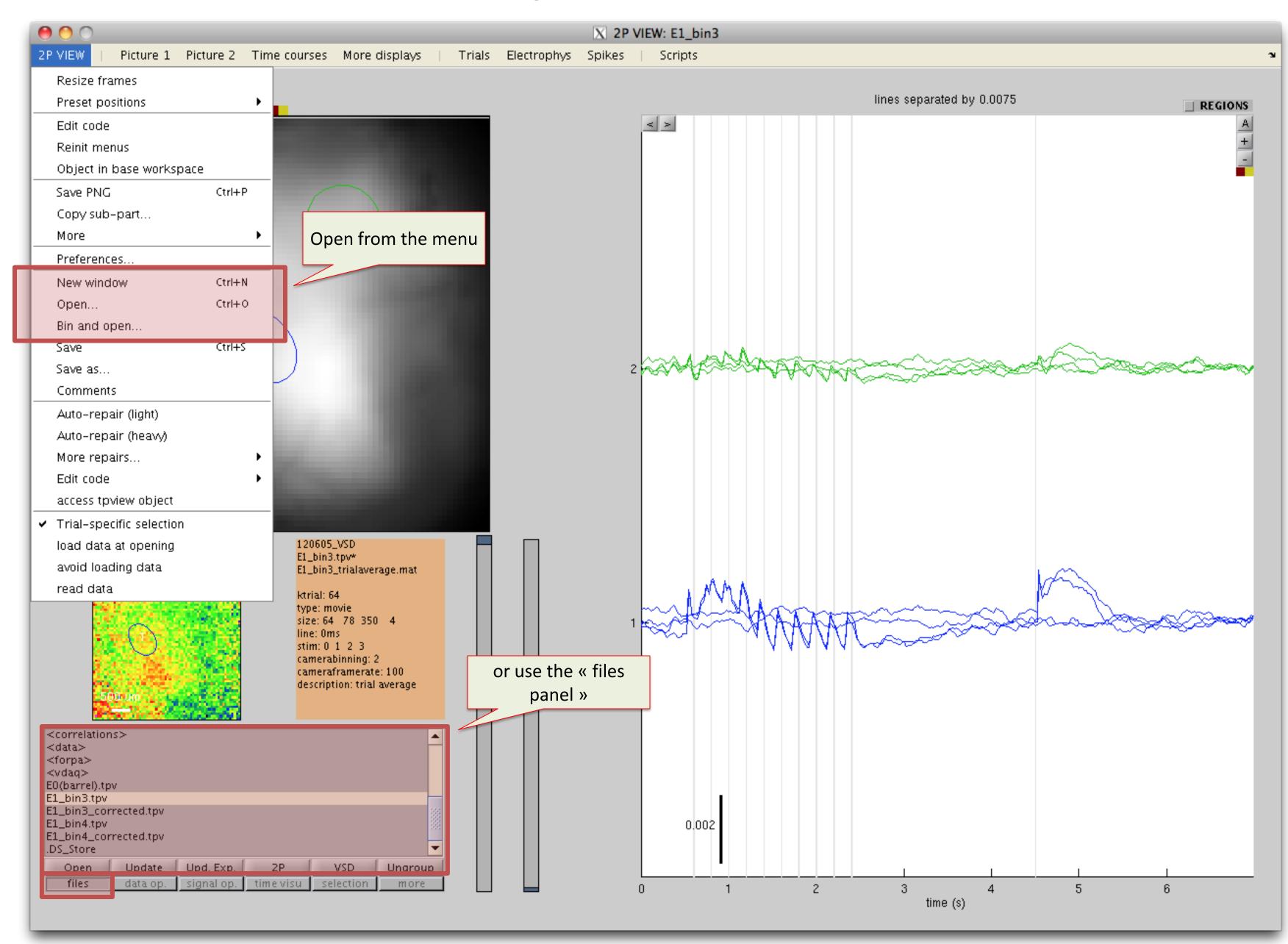
d. Extraction of time courses

e. Operations on time courses

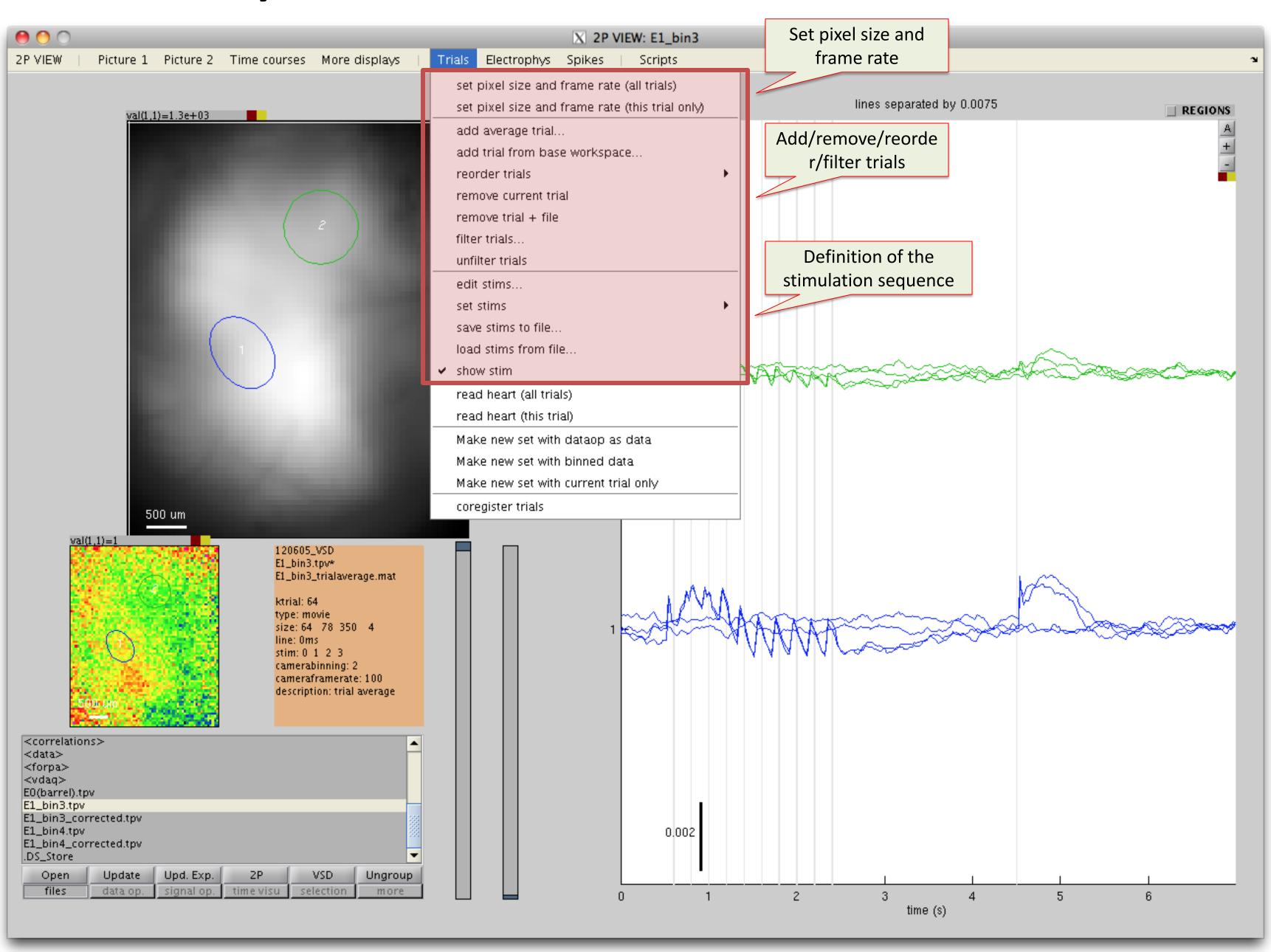
f. Save



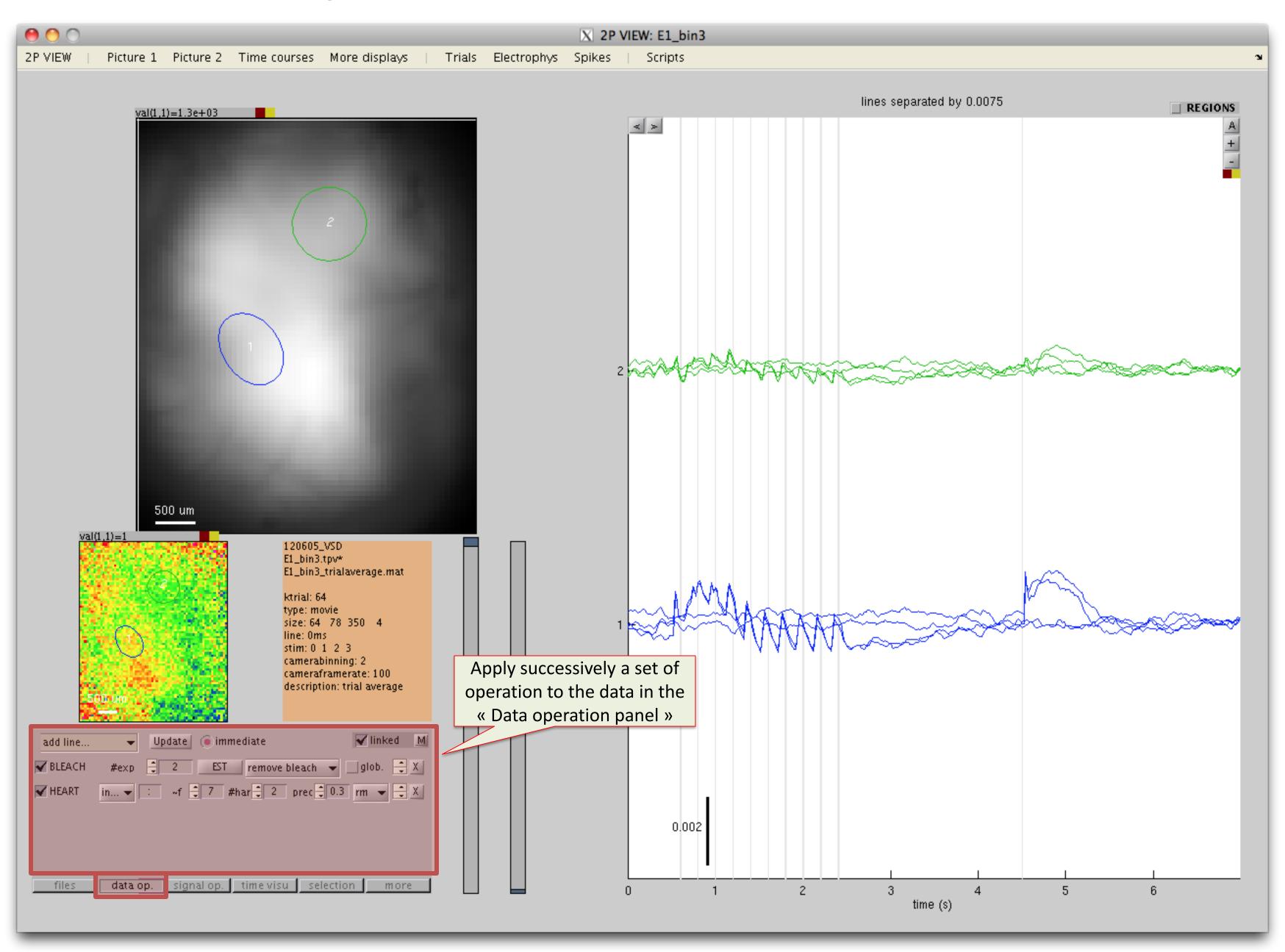
# 1)a. Open the data



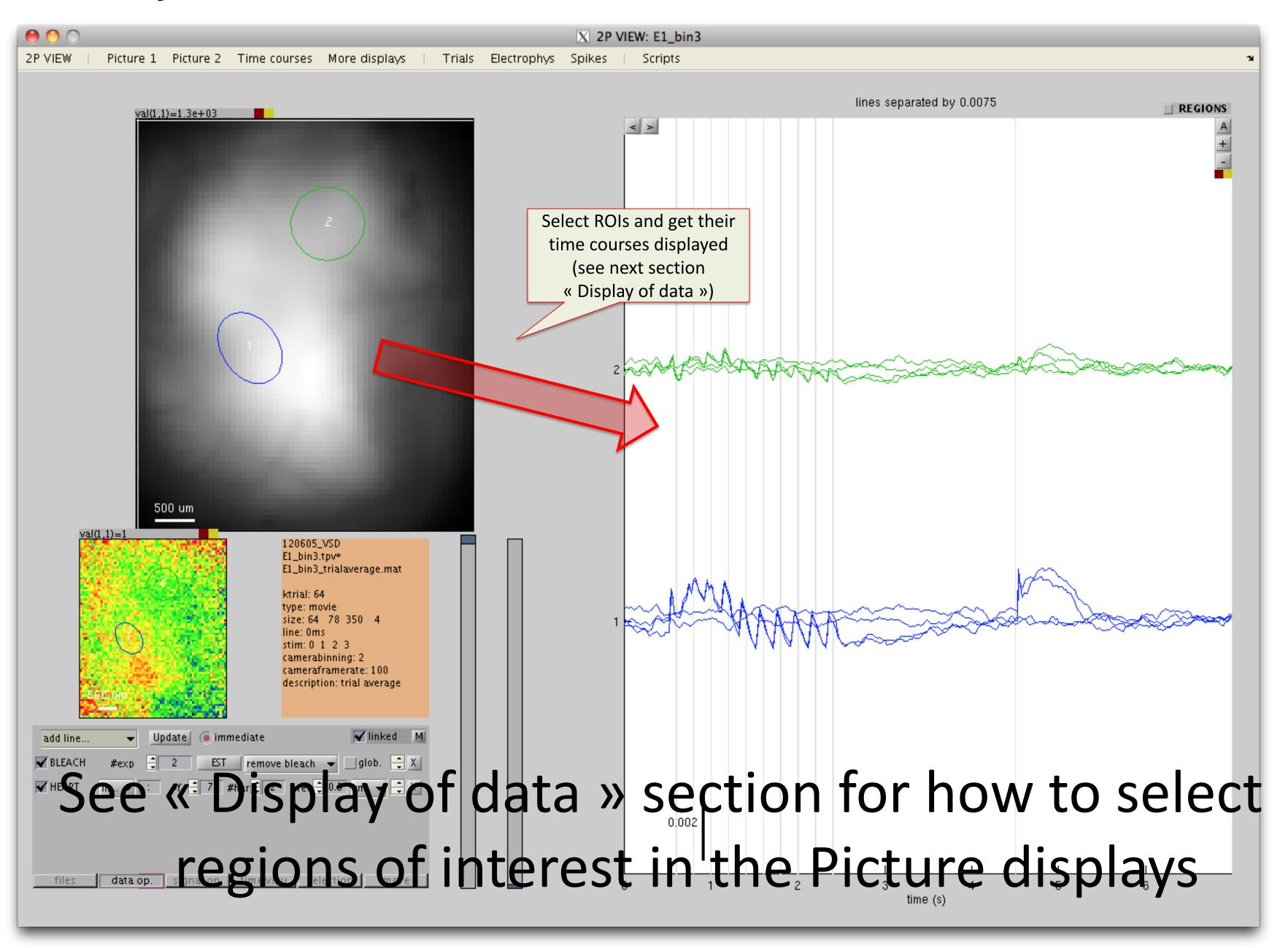
# 1)b. Header information



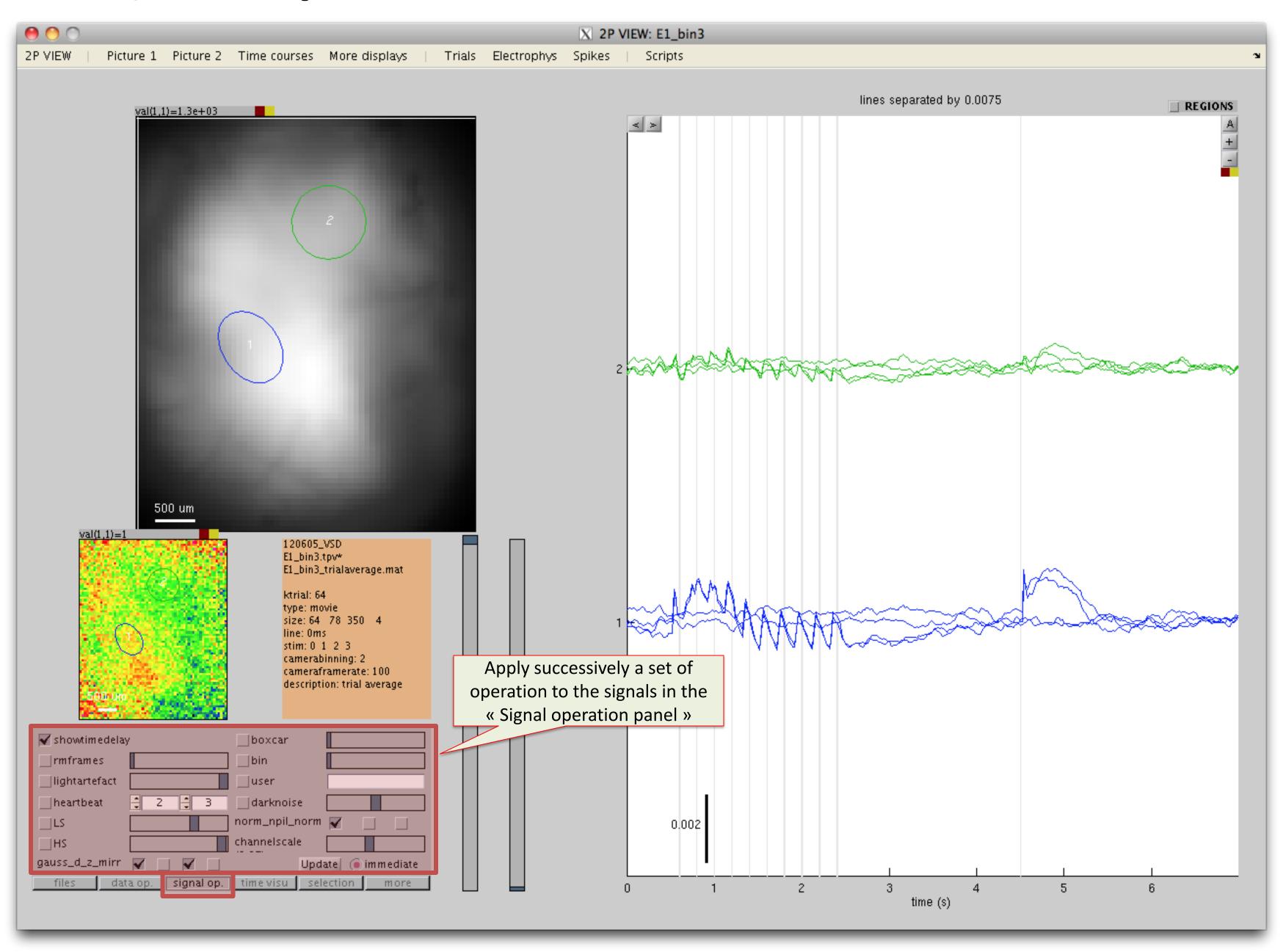
# 1)c. Operations on movie data



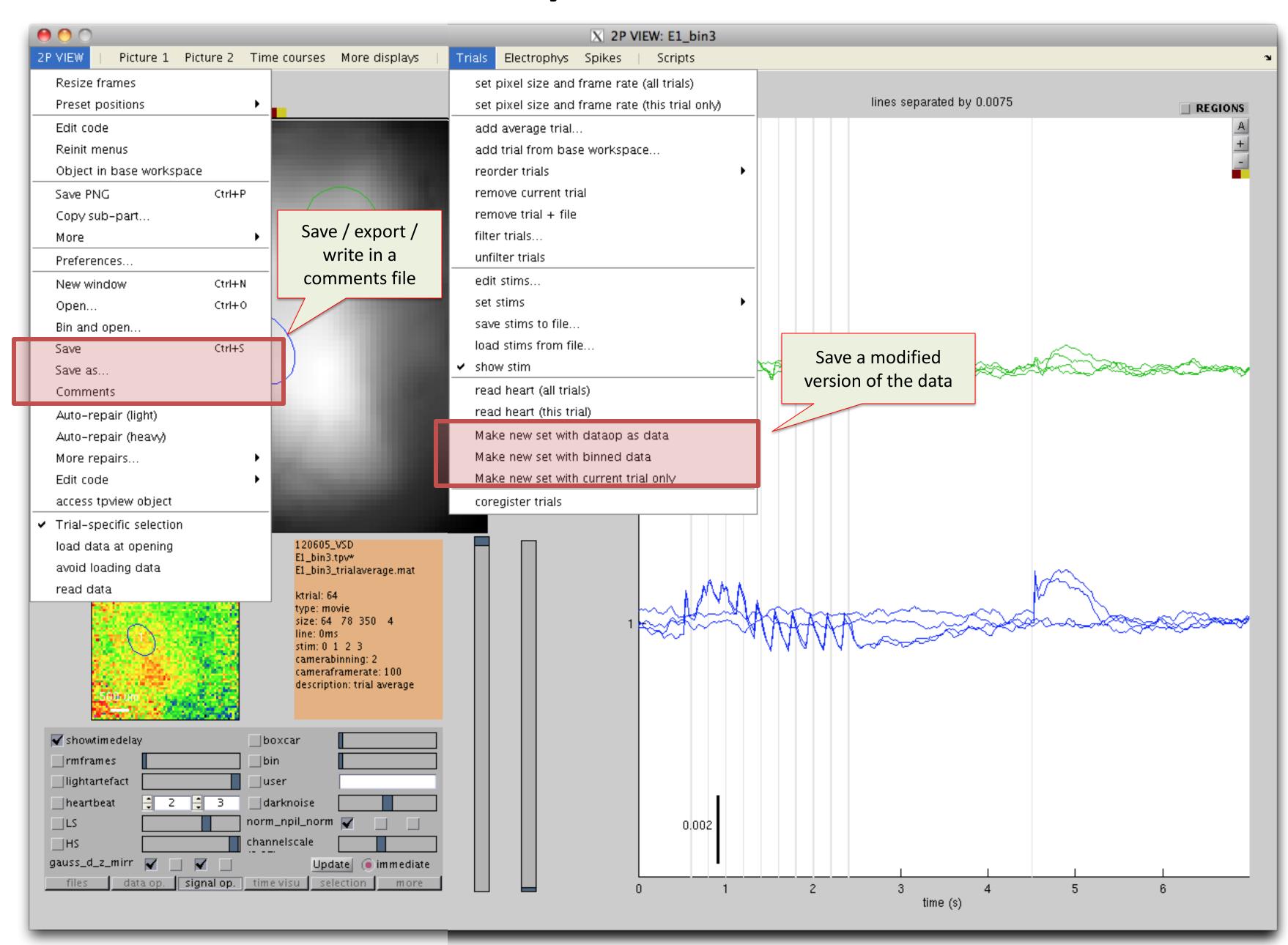
## 1)d. Extraction of time courses



## 1)e. Operations on time courses



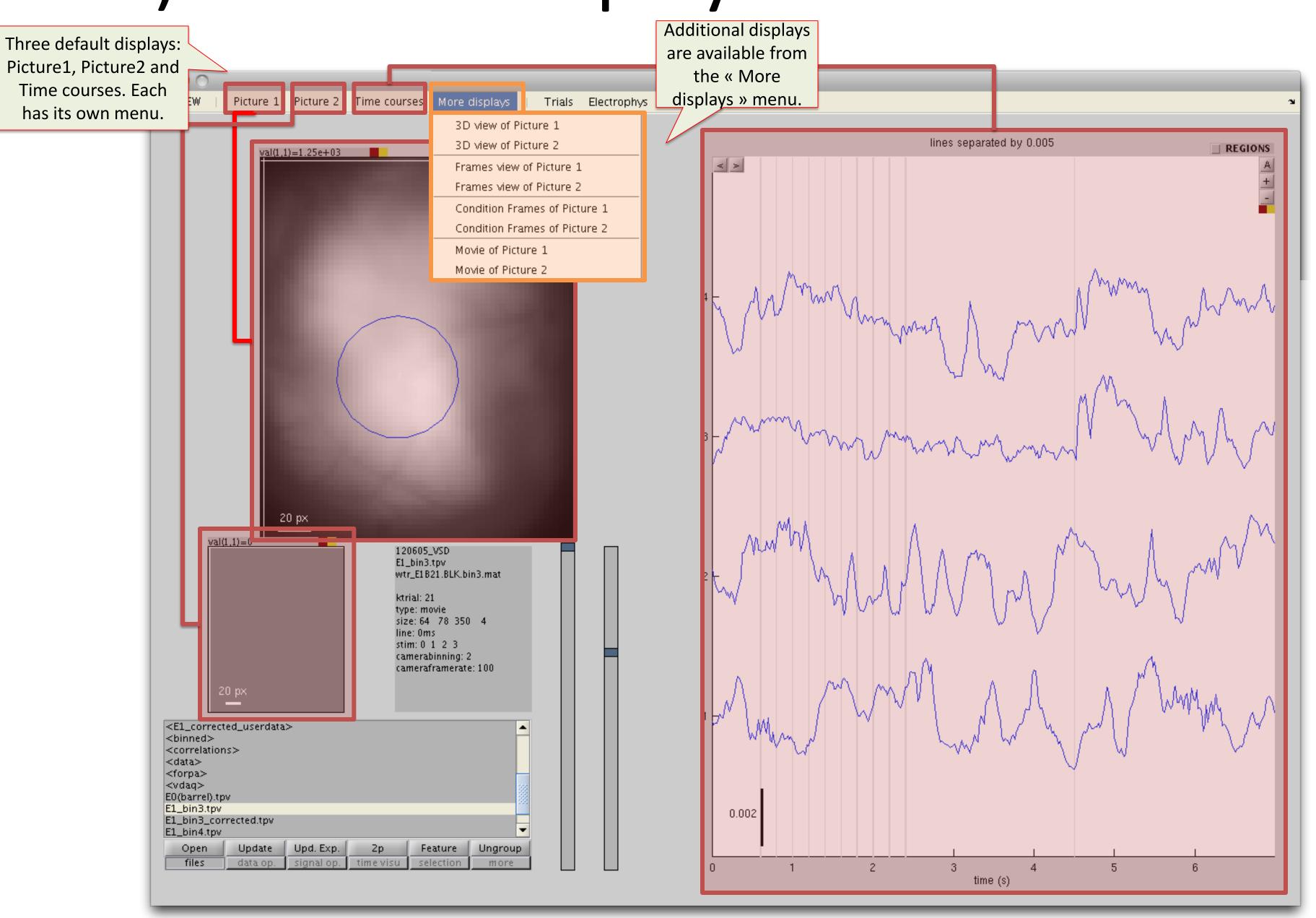
## 1)f. Save



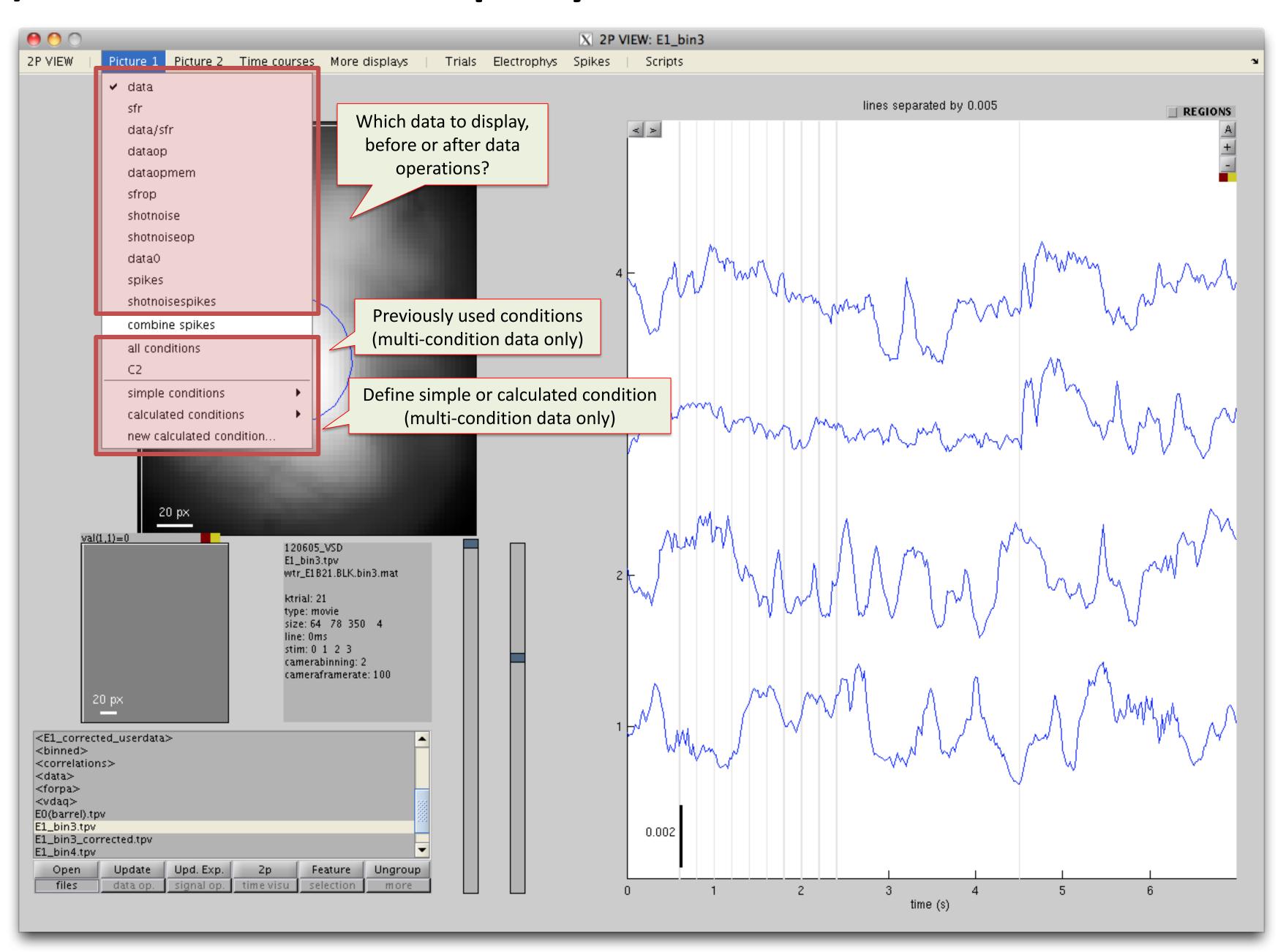
## 2) Display of the data

- a. Which displays are available?
- b. What to show in each display?
  - Picture1 and Picture2
  - Time Courses
- c. Display options
  - Picture1 and Picture2
  - Time Courses
- d. Mouse actions
  - Principles of region selection
  - Table of mouse actions

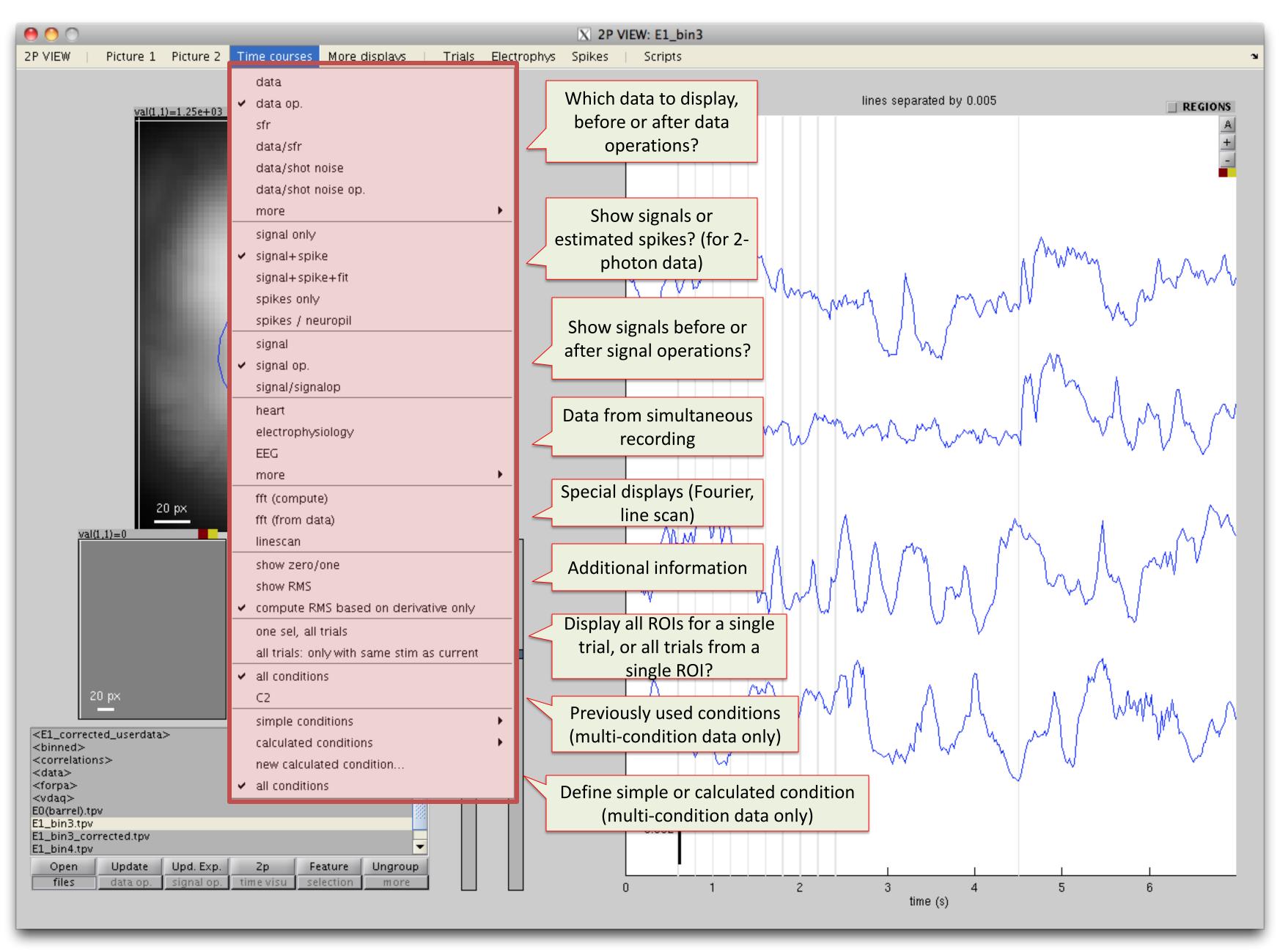
# 2)a. Which displays are available?



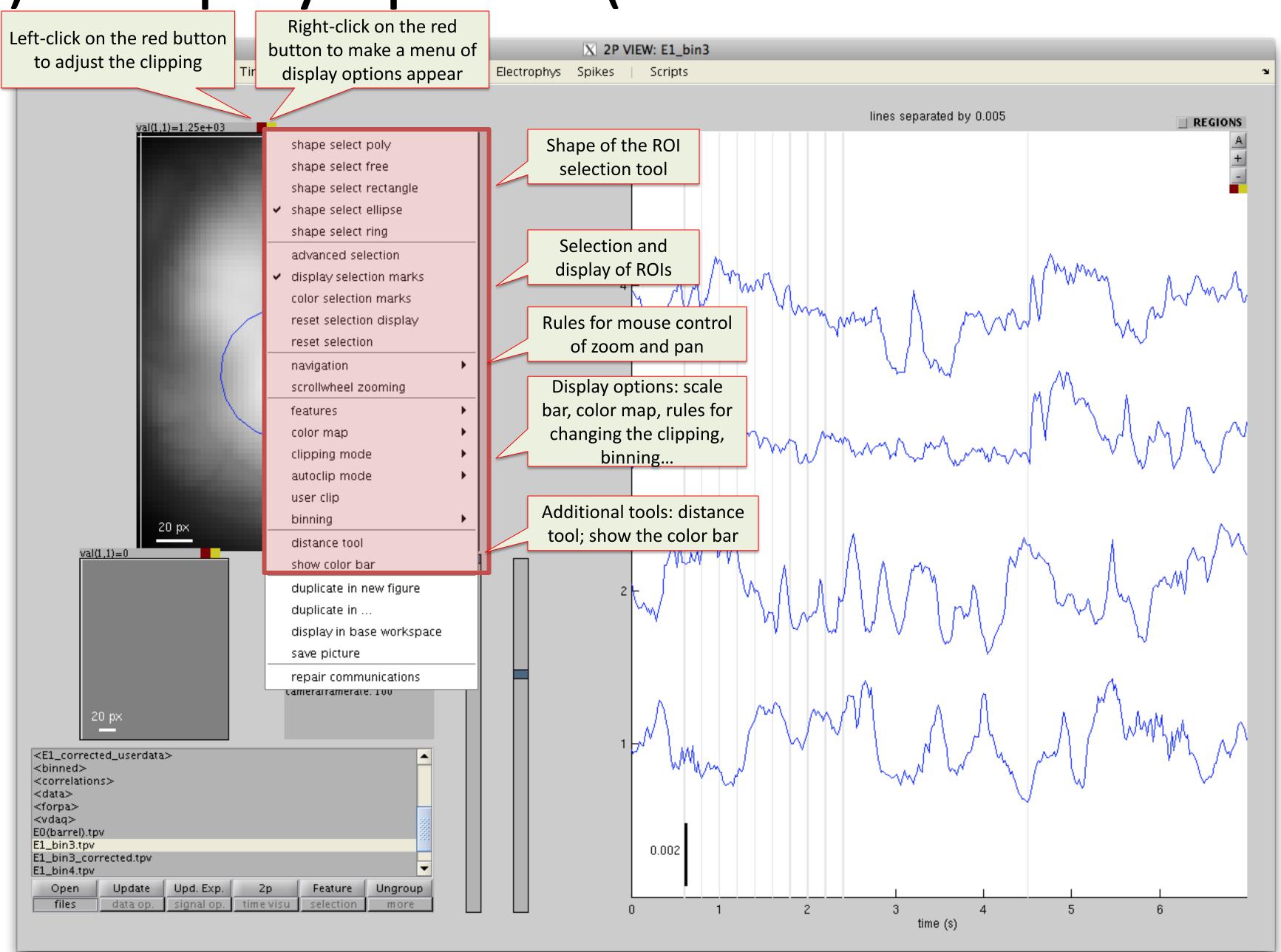
#### 2)b. What to display in Picture1 or Picture2



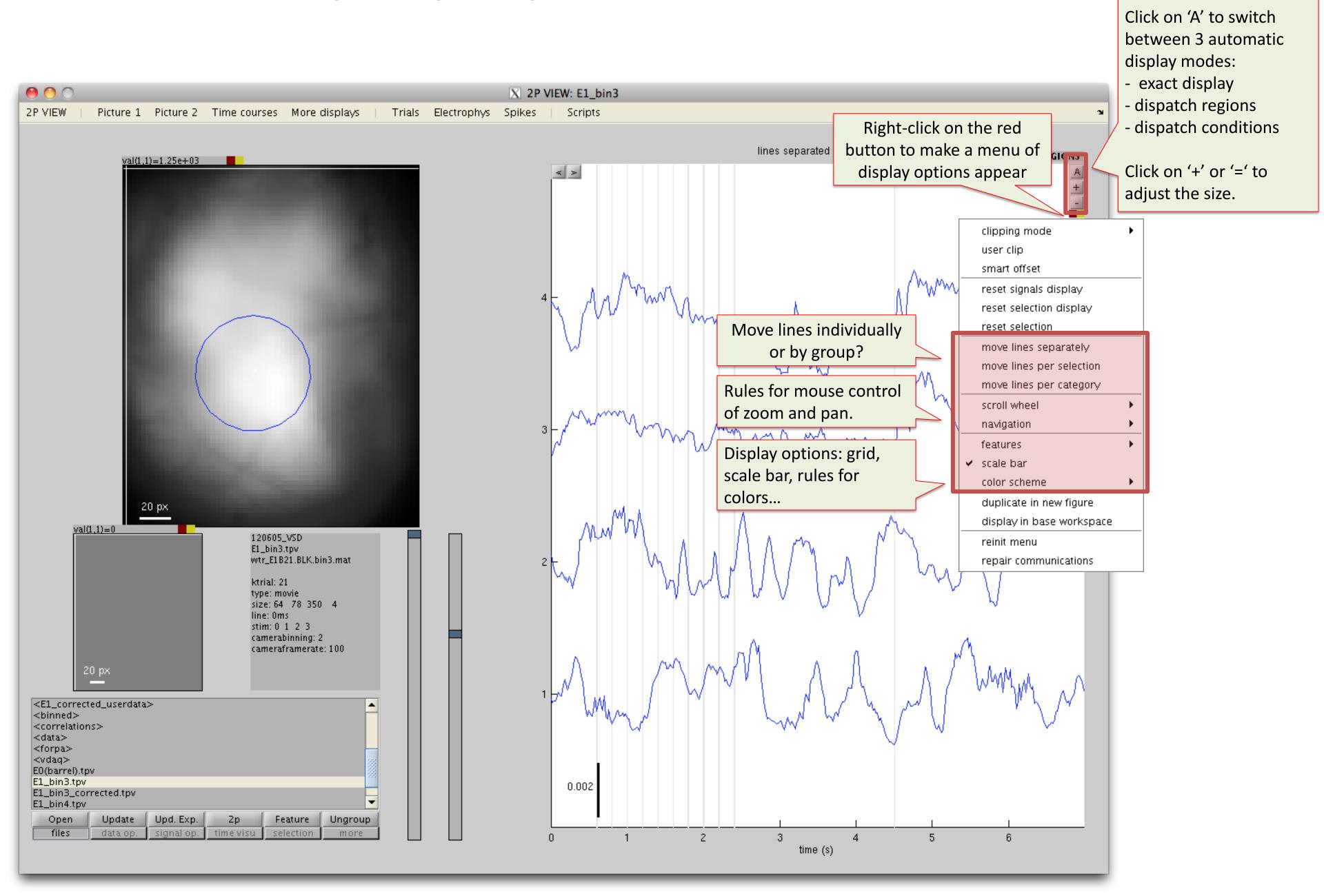
## 2)b. What to display in Time Courses?



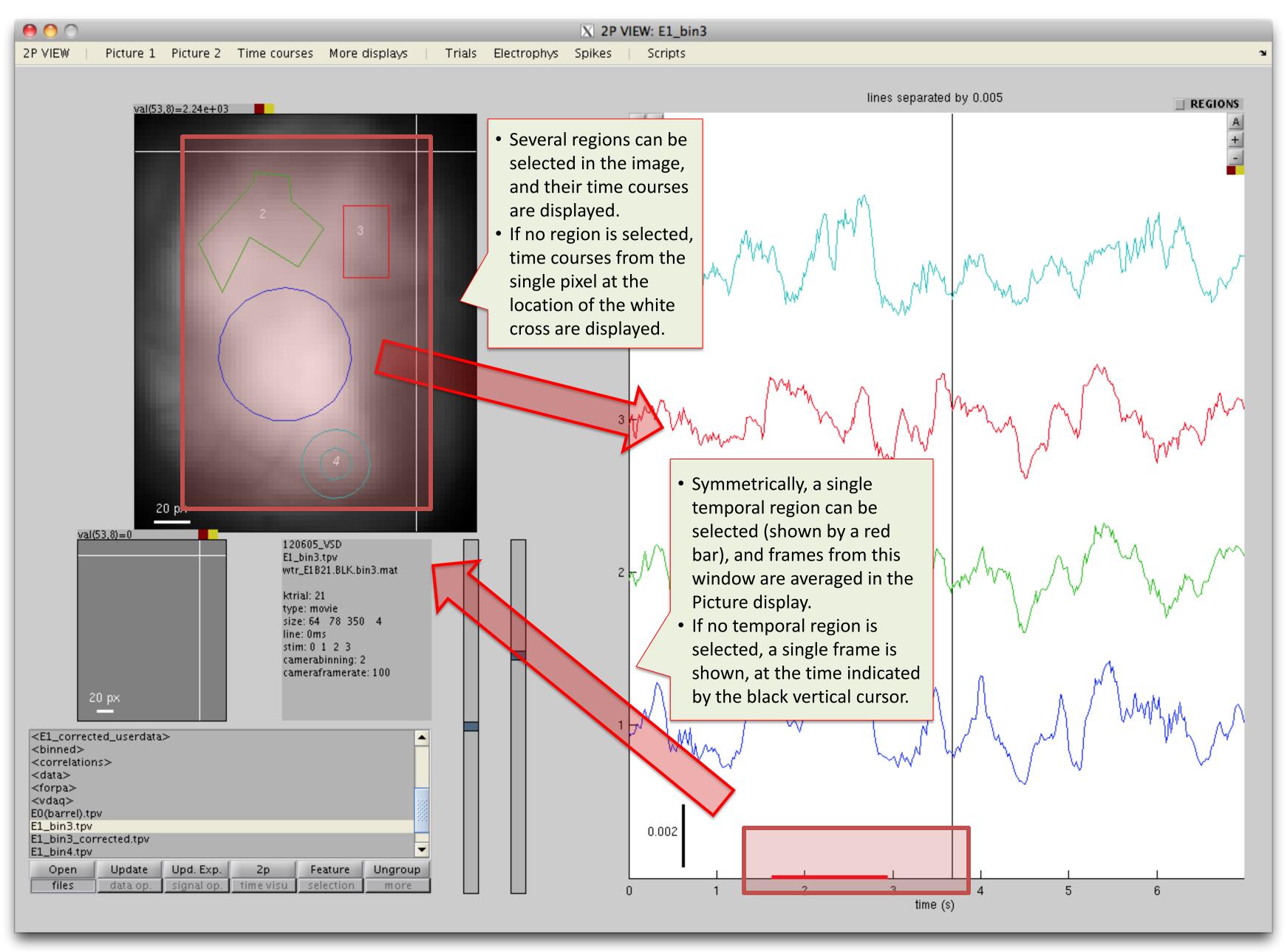
2)c. Display options (Picture1 and Picture2)



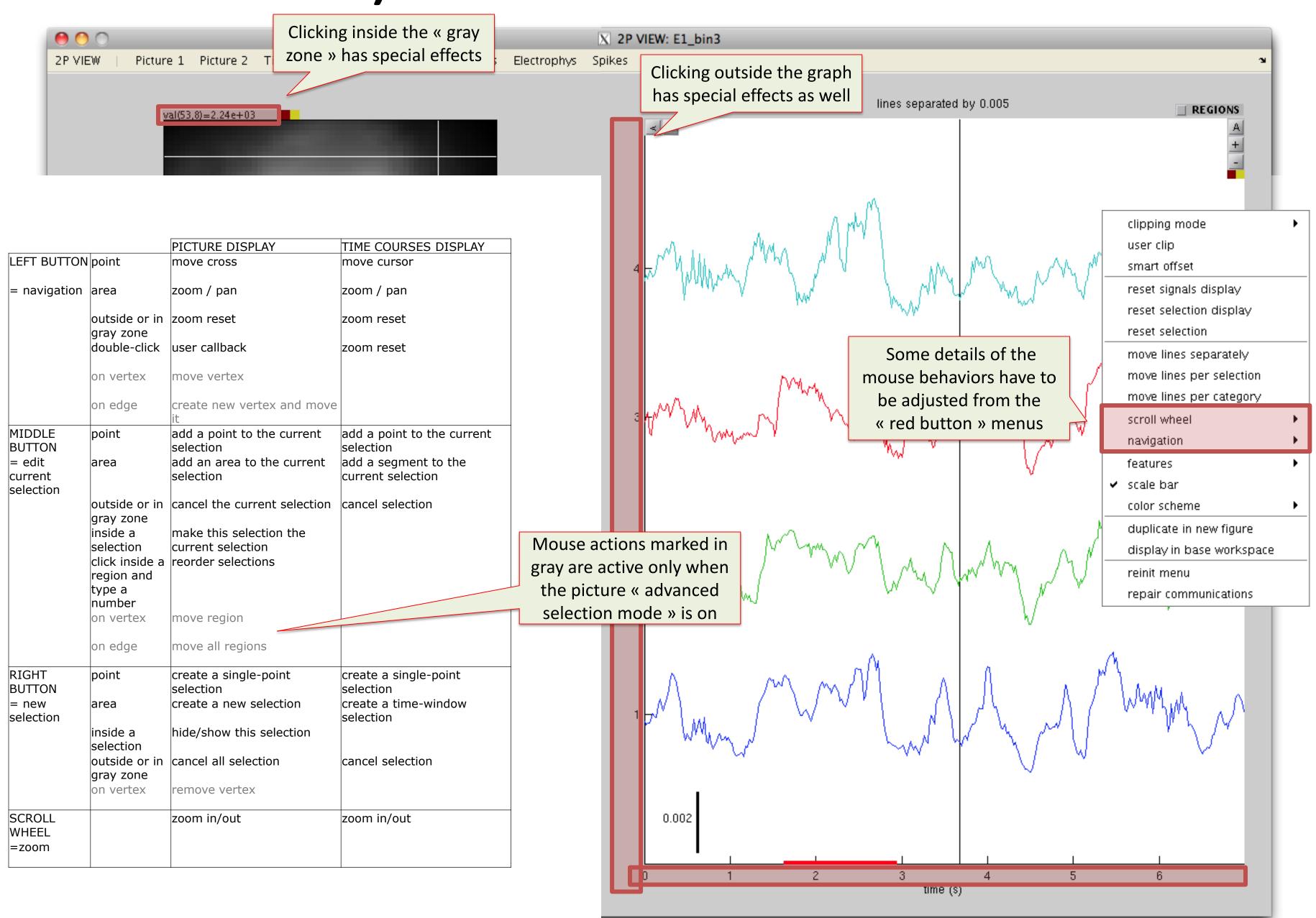
# 2)c. Display options (Time Courses)



# 2)d. Principles of region selection



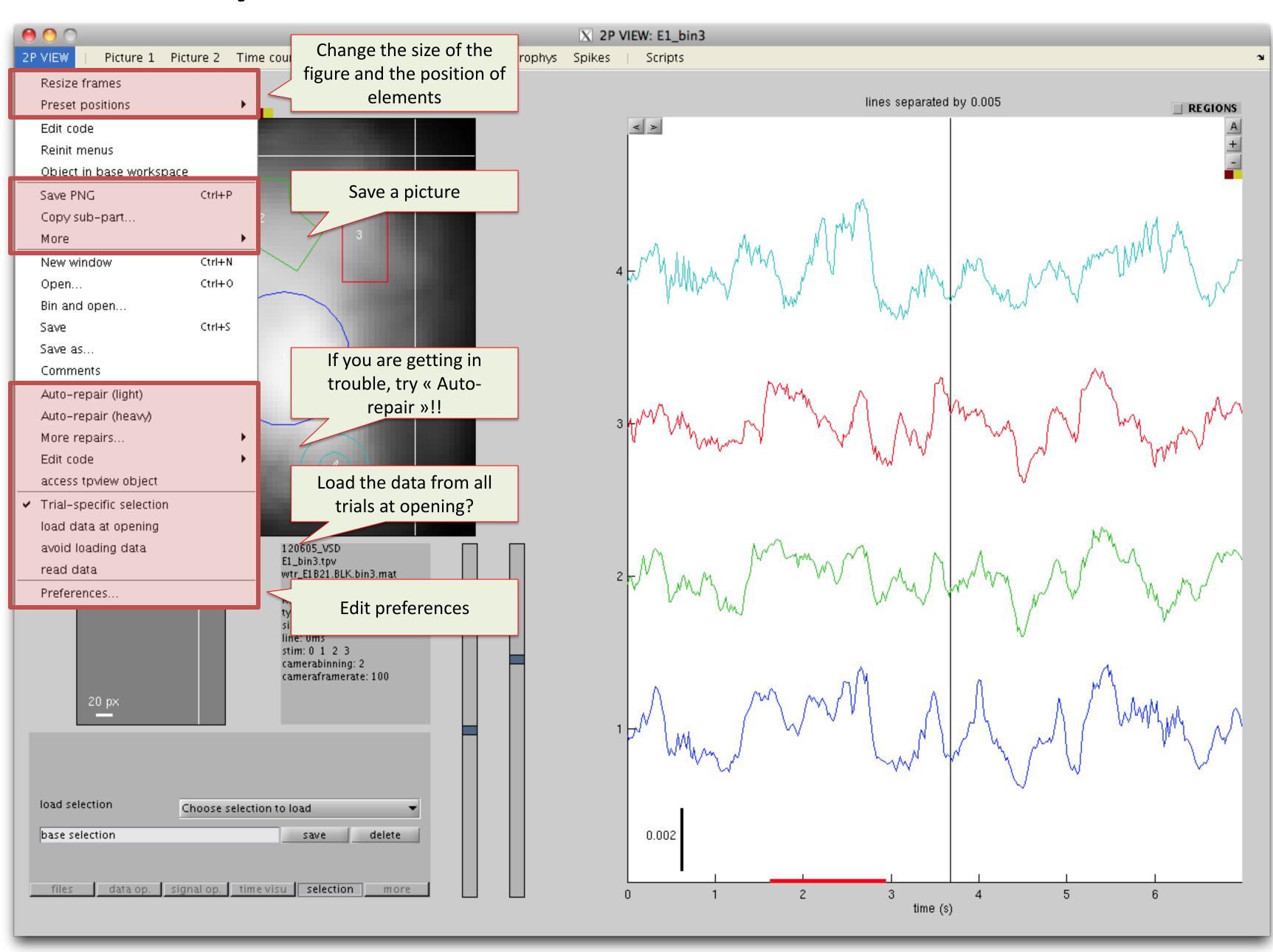
# 2)d. Mouse actions



# 3) Other useful tools

a. The 2Pview menu

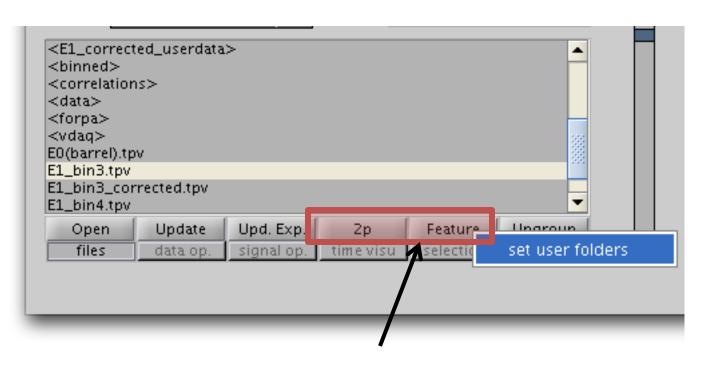
# 3)a. The « 2Pview » menu



#### II. In details

- 1) Manipulation of the data
- 2) Display of the data
- 3) Other useful tools

## 1)a. The « file panel »



These two buttons provide the ability to create shortcuts to your two preffered data folders. Right-click on any of them to define these folders.

### 1)c. Heart correction

#har 🗦 5

These are the recommended parameters for heart correction on rat.

Number of harmonics to use (1 would result in a sinus estimation, more harmonics capture more high frequencies)

keep

prec. 🗧 0.2

set pixel size and frame rate (all trials)

add trial from base workspace...

reorder trials

unfilter trials

edit stims...

remove trial + file

set pixel size and frame rate (this trial only)

Putative heart frequency (7Hz is fine for rat. Note that it is necessary that the frame duration has been defined accurately before (here: Note that it is selection)

That Beautive heart frequency (7Hz is fine for rat. Note that it is necessary that the frame duration has been defined accurately before (here: Note that it is necessary that the frame duration has been defined accurately before (here: Note that it is necessary that the frame duration has been defined accurately before (here: Note that it is necessary that the frame duration has been defined accurately before (here: Note that it is necessary that the frame duration has been defined accurately before (here: Note that it is necessary that the frame duration has been defined accurately before (here: Note that it is necessary that the frame duration has been defined accurately before (here: Note that it is necessary that the frame duration has been defined accurately before (here: Note that it is necessary that the frame duration has been defined accurately before (here: Note that it is necessary that the frame duration has been defined accurately before (here: Note that it is necessary that the frame duration has been defined accurately before (here: Note that it is necessary that the frame duration has been defined accurately before (here: Note that it is necessary that the frame duration has been defined accurately before (here: Note that it is necessary that the frame duration has been defined accurately before (here: Note that it is necessary that the frame duration has been defined accurately before (here: Note that it is necessary that the frame duration has been defined accurately before the following that the following that the frame duration has been defined accurately before the following that the

✓ HEART

region.

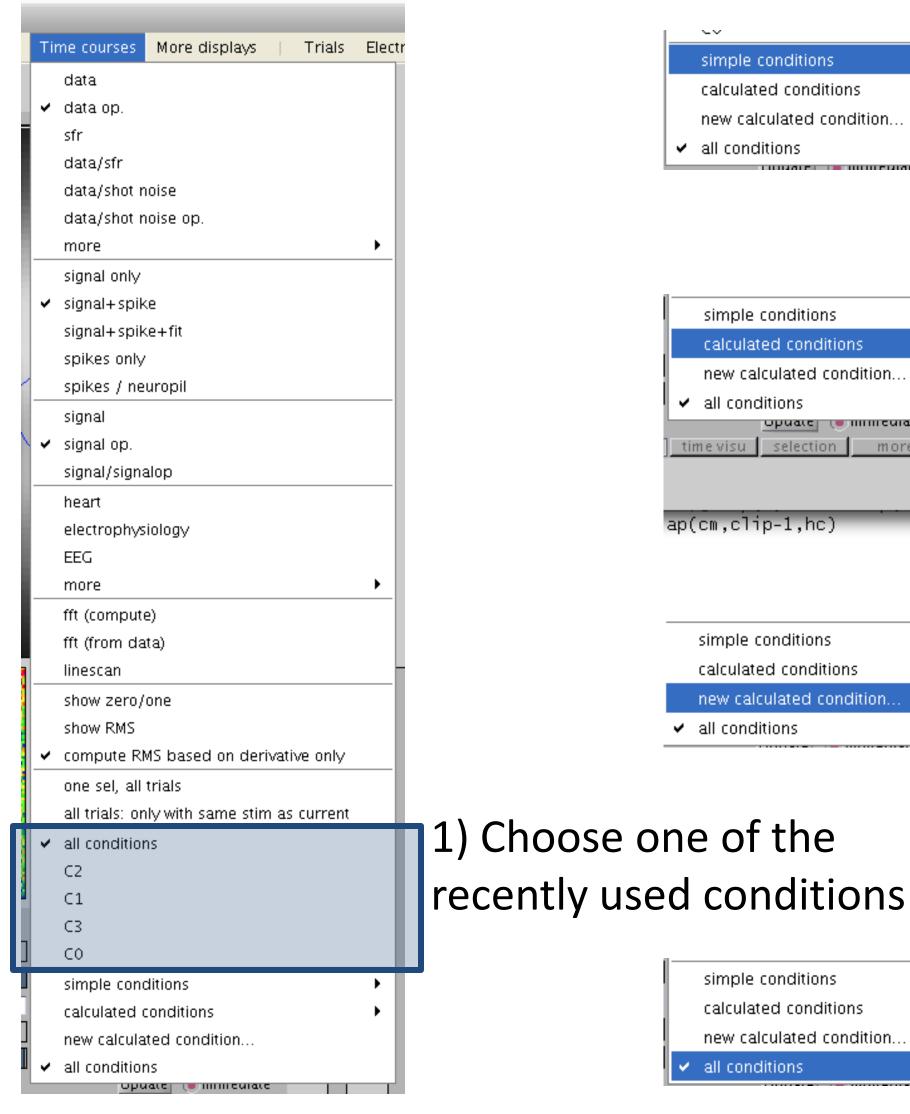
indices

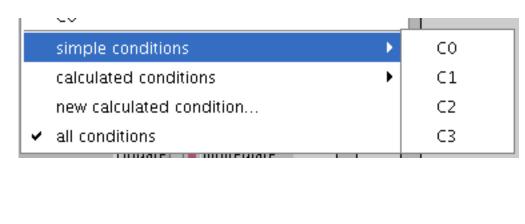
first select

Choose whether to remove the estimated heart or keep only it. It is advised to first select 'keep' in order to check that it has been correctly estimated, then select 'rm' to perform the correction.

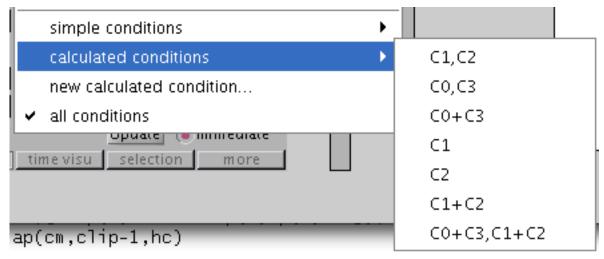
# 2)b. Which condition(s) to display?

When data has mutiple conditions, it is possible to choose which to display in Picture 1, Picture 2 or Time Courses. Several options exist:

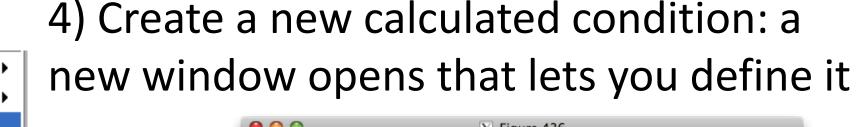


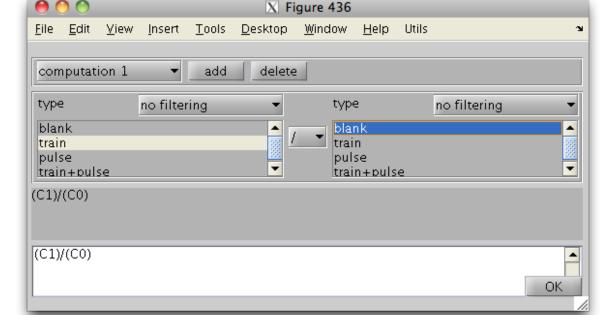


2) Choose a simple conditions



3) Choose a recent calculated condition





simple conditions calculated conditions

5) Display all simple conditions together