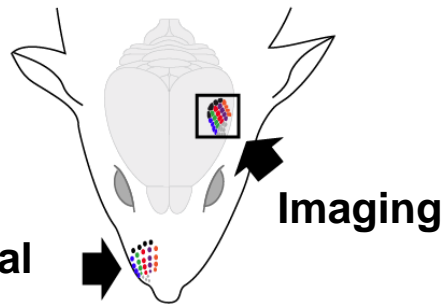
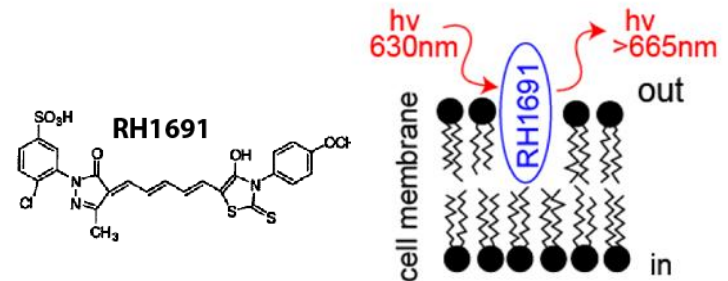


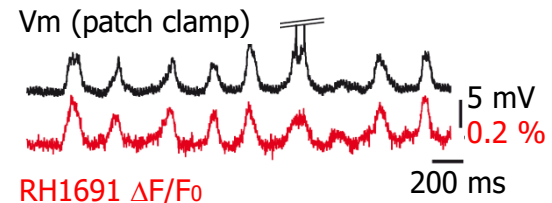
## Matrix of 24 Vibrissal stimulators



FOV: 2.5 x 2.5 mm  
Spatial resolution: 25  $\mu\text{m}/\text{pxl}$   
Temporal resolution: 2 ms



*Grinvald & Hildesheim (2004) review*

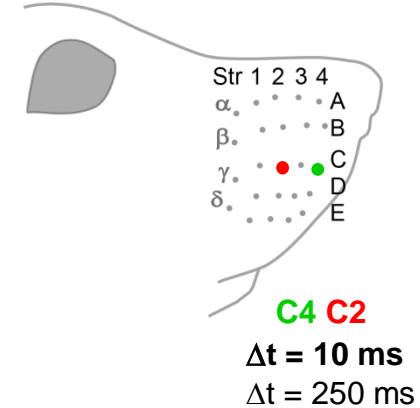
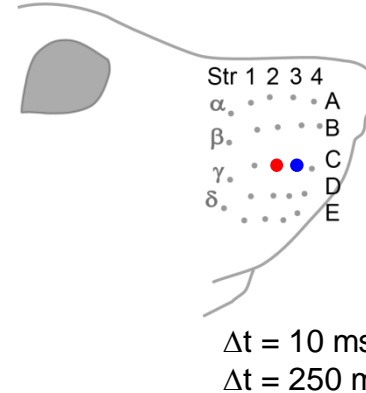
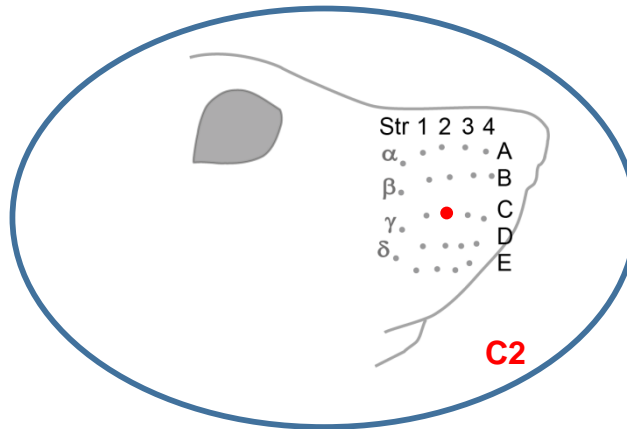
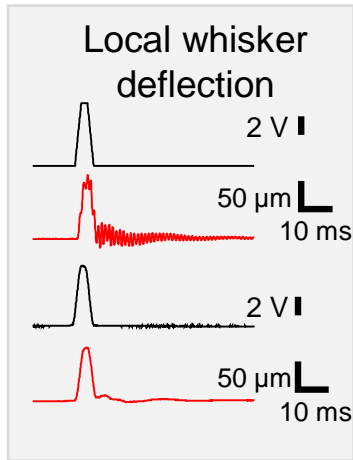


*Ferezou et al. (2006)*

# Whisker stimulation protocol

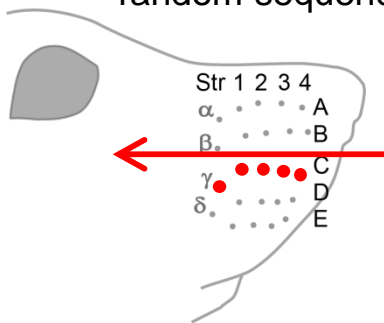
## Single C2 whisker deflection

## Paired whisker deflections

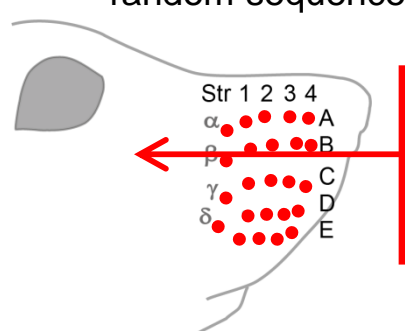


## Multi whisker deflections

Row C stimulation:  
Rostro-caudal  
random sequence

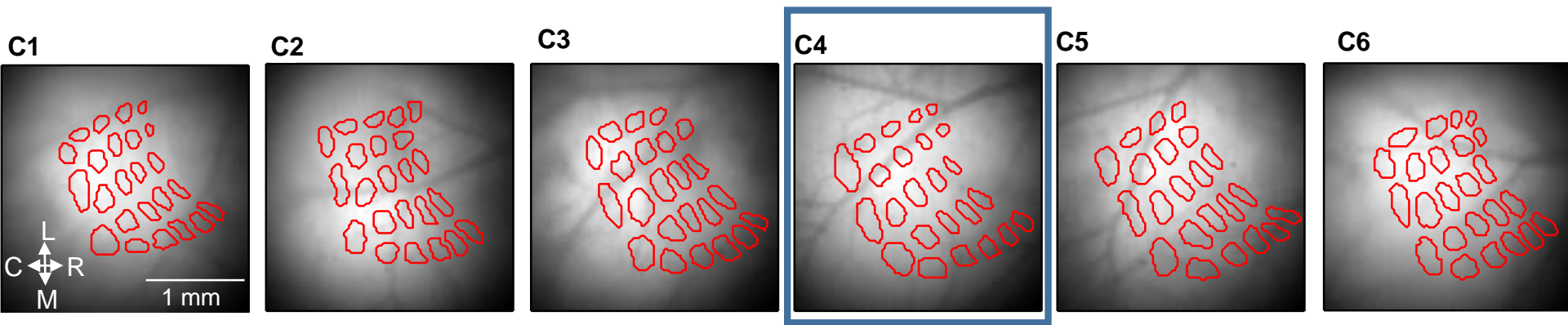


All whisker stimulation:  
Rostro-caudal  
random sequence



9 conditions + 1 blank  
Inter trial interval: 20s  
Pseudo random order

## Data set: 6 mice



**VSD baseline fluorescence + reconstructed barrel map** (Perronnet, Vilarcharo et al., 2016)

# First set of data from mouse C4 (exp. 2016.09.13)

Averages from n=40 trials - Data should be saved as column/row/layer (100 x 100 x 511) with 1 pxl = 25  $\mu$ m and 1 frame = 2 ms

Please check the correct orientation of the images

The Data are just "debleached"

C2\_avg (frame 108)

108

