20191205 RH

Contents of this package

* **7 TIFF stacks of activity maps**
  + 32-bit tiff stacks, 256 × 256 pixels, 15–19 images
  + Each file contains activity map for a single odorant

BA.tif: Butyraldehyde (4CHO)

BA+EC.tif: Butyraldehyde + ethyl caproate

EC.tif: Ethyl caproate

PB.tif: Propyl butyrate

PB+CA.tif: Methyl valerate + caproaldehyde

CA.tif: Caorialdehyde

MO.tif: Mineral oil (dilutant) for baseline

* + Each image in the stacks represents an activity map from a single trial. Trials with irregular breathing or other obvious troubles are omitted.
  + The problems are actually minor in many of the omitted trials. It is possible to prepare a dataset with all trials except those with obvious troubles (just a few).
  + Images are arranged in the order of acquisition (from the first trial to the last).
* 2 TIFF image of filed-of-view mask

mask\_active-area.tif: an area covering all the glomeruli showed some response

mask\_field-of-view.tif: all valid pixels in the recording (for reference)

* + 8-bit tiff image, 256 × 256 pixel
  + Pixels that fall into olfactory bulb are in white (level 255). All other pixels (e.g., out of the field-of-view, pixels corresponding outside of olfactory bulb) are in black (level 0).
* 1 TIFF stack of glomerular masks

masks\_all-glomeruli.tif

* + 8-bit tiff stacks, 256 × 256 pixels, 25 images
  + White pixels correspond to a single glomerulus that I was able to identify.
  + Some of the glomeruli are omitted for reasons such including that it was active only in the small subset of trials, it overlaps with the adjacent neighbor, etc.

Procedure of creating an activity map – no change from the one for the previous dataset