MORE: Mosquito Olfactory Response Ensemble

Help Manual

Pages in the MORE website

The table below describes the set of pages within the MORE website, along with a description of the content in each page.

Tab	Sub-tab	Species	Description
Home	-		Home section or default page on the website
Behavior	Mosquito	All	Preference indices of odors calculated from behavioral
	Preference	mosquitoes	experiments.
	Index		
	Drosophila	Drosophila	Preference indices of odors calculated from behavioral
	Preference	Melanogaster	experiments.
	Index		
	Mosquito	All	Oviposition preferences of odors calculated from behavioral
	Oviposition	mosquitoes	experiments.
	Index		
	Drosophila	Drosophila	Oviposition preferences of odors calculated from behavioral
	Oviposition	Melanogaster	experiments.
	Index		
Single Sensillum	-	All	Data from single sensillum recording experiments done in
Recording		mosquitoes	mosquitoes to measure the electrophysiological responses of
			the sensory neurons.
Electroantennography	-	All	Data from electroantennography experiments in mosquitoes
		mosquitoes	to measure the overall activity of the antenna to various
			odors.
Odorant Receptor	Mosquito	All	Responses of mosquito odorant receptors to various odors
	Empty-	mosquitoes	measured using the empty-neuron technique (in vivo)
	Neuron		
	Recording		
	Mosquito	All	Responses of mosquito odorant receptors to various odors
	Oocyte	mosquitoes	measured using the oocyte recording technique (in-vitro)
	Recording		
	Drosophila	Drosophila	Responses of Drosophila odorant receptors to various odors
	Empty-	Melanogaster	measured using the empty-neuron technique (in vivo)
	Neuron		
	Recording		

Parameters

The table below describes the various fields in the tables.

Field	Description	
Concentration	Concentration was added either in the form of a fraction or in g/ml.	

Normalization odor concentration	Odor concentration used by us for the normalization		
	Odor concentration used by us for the normalization		
Normalization odor	Odor used by us for normalization		
Normalization status	Whether or not the study does the normalization		
Normalization odor concentration original	Concentration of odor used by the study for the normalization of EAG response		
Normalization odor original	Odor used by the study for the normalization of EAG response		
Preparation type	Preparation type used to record (isolated head, isolated antenna, intact animal)		
Neuron	The neuron in the Sensillum from which recordings were performed		
Sensillum	The Sensillum in the olfactory organ from which recordings were performed.		
Sensillum type	Type of Sensillum from which recordings were obtained (like grooved peg, trichoid, basiconic, capitate peg, S1)		
Segment	The region of the olfactory organ from which the recording was performed (for example 6-13 in antenna or zone-3 in labellum)		
Location	The location of the Sensillum from which the recording was performed (like antenna, palp, tarsus wing, labellum)		
OR	Odorant receptor. In drosophila, SSR data is added to OR response data using the OSN-OR mapping (Münch and Galizia, 2016).		
Sfr status	Whether or not the spontaneous firing rate was subtracted from the responses by the study		
Response original	This column contains the original response value, as reported in the study		
Response	Responses are in –mV		
Response	Responses were added in spikes/second. Again, all the responses which were reported in other formats were converted to spikes/second		
Response	Response is reported in terms of preference index ((Treatment – Control)/(Treatment + Control) All the behavioral data points for which the responses were not reported in terms of preference index, were manually curated to the preference index.		
Reference	Reference code from which data was obtained		
Assay	Type of assay used. In drosophila, trap-assay is written as dual-port, and in mosquitoes, arm-in-cage is considered as landing assay because of the similar architecture.		
Feeding status	Blood-feeding status (Y: blood-feed; N: non-blood-fed)		
Starvation	Average number of hours for which animal was starved		
Age	Average age of the animal used in the experiments (in days)		
Gender	Gender of the animal used in the experiment (M: Male; F: Female; Both: both female and male were used)		
Species	Species for which data was recorded		
Solvent evaporated	Status of solvent evaporation before the start of the experiment (Y: Yes; N: No)		
Solvent	Solvent used to dilute the odor		
Odor volume	Volume of diluted or undiluted odor (in ml) used in the experiment.		
Odor amount	Amount of odor (in µg) applied on filter paper or any other surface.		
Concentration-type	All the concentrations were divided into four concentration types W/V, V/V, W/W, or Dry. 'Dry' concentration type corresponds to the cases in which the pure odorant solution was used (for example: In Allan2006, 100 µl of the odorant solution was used in a vial. In Klun2003, concentration was reported in µmol/cm2).		

Features of MORE

1. '+' icon

This icon allows you to see additional information related to the experiment. On clicking this icon, the row will expand.

2. Search/ Filter

The search bar allows you to search for a particular datapoints in the dataset. It also give you some flexibility to search for multiple keywords at the same time. For example, to find the behavioral response value corresponding to DEET in AAeg, you can simple write "DEET AAeg". Note: - the different keywords should be separated by space and this operation shows you all the datapoints containing all the input keywords.

3. Download Full Dataset

This button allows you to download the whole dataset in Excel format. This feature is available on the "Home" tab of the website.

4. Download Filtered Data

This button allows you to download only the filtered data in an excel format. This feature is available below the data tables.