

Package	Role	Main functions
behavr	utilities	behavr(), meta(), setbehavr(), setmeta()
	metadata operations see S1 Fig.	xmd(), rejoin()
	merge and check several tables	bind_behavr_list(), stitch_on()
ggetho	interface to ggplot (see main text)	ggetho()
	tile and “bar tile” plots (<i>e.g.</i> Fig. 3 and 4A)	stat_tile_etho, stat_bar_tile_etho()
	population trends as lines and error bars	stat_pop_etho()
	circadian biology utilities (<i>e.g.</i> Fig. 4 and 5A)	stat_ld_annotations(), geom_peak()
	smart time scales (auto-adjust labels and ticks)	scale_x_days(), scale_x_hours(), ...
damr	“link” metadata to DAM files (see main text)	link_dam_metadata()
	“load” relevant DAM (2 or 5) data as behavr. Detects daylight-saving bugs and such	load_dam()
scopr	“link” metadata to ethoscope files	link_ethoscope_metadata()
	“load” relevant ethoscope data as behavr	load_ethoscope()
	utilities (list files, fetch remote data,)	experiment_info(), list_result_files(), ...
zeitgebr	compute periodograms (AC, χ^2 , LS, Fourier)	*_periodogram() (* $\in \{ac, chi_sqr, ls, fourrier\}$)
	preprocess and standardise methods	periodogram()
	find peak periods in periodograms (<i>e.g.</i> Fig. 4 and 5A)	find_peaks()
sleepr	motion thresholding/velocity detection	motion_detectors()
	sleep definition using N minute rule	sleep_annotation()
	data curation: dead animals scored as asleep	curate_dead_animals()
	discrete behavioural state bout architecture	bout_analysis()