Coordinates from ant paths are provided as Matlab files (see Xpos2 and Ypos2 for path coordinates for individual ants).

Uploaded paths are not yet trimmed but they need to be trimmed at around r = 42 cm because once the ant is close to the edge of the arena the tracking becomes noisy in these experiments because the ant cannot anymore be tracked correctly when she’s too close to the feeder, cues and platform edge. Paths from all ants are uploaded, also ants that were not selected as ‘reliable learners’ and thus not included in most of the analyses.

Paths are rotated such that the learnt feeder location is always at 3 o’clock.

V = visual cue present during training.

O = olfactory cue present during training.

A = airflow present during training.

Centre or Edge = position where OA and feeder were placed relative to visual cue.

If multiple cues are present during an experiment, multiple letters are used for the labelling (eg in the VA experiment the visual cue (V) and airflow (A) were present together).

General file labelling:

Training paths: OVAIR-0001a-016-Pos5.mat (yellow: ant name, blue: training round)

Test recordings: OVAIR-0001a-020-4Tst3.mat (pink: type of test, see below for description of tests that were included for each experiment)

Summary of folders uploaded for each type of experiment with the tests that were included in the JEB paper listed in brackets.

**VOACentre experiments:**

* *20141007OVairTraining* (4Tst: V-O+A+, 6Tst: V+O-A+; Last training round before first test: 19)
* *20141012OVairTraining* (4Tst: V-O+A+, 6Tst: V+O-A+; Last training round before first test: 16)
* *20160201OVairTraining* (4Tst: V-O+A+, 6Tst: V+O-A+; Last training round before first test: 14)
* *20170130OVairTraining* (7Tst: OA displaced 20 deg anticlockwise and VA present at learnt feeder location; 5Tst: OA displaced 20 deg anticlockwise and V present at learnt feeder location; Last training round before first test: 17)

**VOAEdge experiments:**

* *20171205OVairTraining* (4Tst: V-O+A+, 6Tst: V+O-A+; Last training round before first test: 21)

**VA experiments:**

* *20160210VairTraining* (Last training round before first test: 20)
* *20160928VairTraining* (Last training round before first test: 17)
* *20170123VairTraining* (5Tst: A displaced 20 deg anticlockwise; Last training round before first test: 15)

**OA experiments:**

* *20141028OairTraining* (Last training round before first test: 17)
* *20160313OairTraining* (Last training round before first test: 17)
* *20170207OairTraining* (Last training round before first test: 20)

**V experiments:**

* *20141031VTraining* (Last training round before first test: 17)
* *20170224VTraining* (Last training round before first test: 25)

**A experiments:**

* *20161003AirTraining* (Last training round before first test: 29)