

Table S1. Data on migratory movement during the study

Age	Treatment group	Capture location	Days to migration	Time to final bearing	Final bearing	Distance to final location	Days in migration	Migration speed (km day ⁻¹)	95%
a	A	IL	10	24	241	131.95	14	9.425	a
a	A	IL	16	24	185	155.42	8	19.4275	j
a	A	IL	15	24	180	42.45	9	4.716666667	j
a	A	IL	9	24	186	153.44	15	10.22933333	j
a	A	IL	9	24	186	51.58	15	3.438666667	j
a	A	IL	24	NL					
a	A	IL	10	24	179	25.23	14	1.802142857	j
a	A	IL	18	NL					
a	C	IL	24	27	274	70.77	3	23.59	
a	C	IL	16	24	240	41.97	8	5.24625	
a	C	IL	10	24	195	77.32	14	5.522857143	
a	C	IL	22	NL					
a	C	IL	25	27	235	42.13	2	21.065	
a	C	IL	24	27	231	56.46	3	18.82	
a	M	IL	18	24	246	61.42	6	10.23666667	
a	M	IL	3	24	217	124.71	21	5.938571429	
a	M	IL	10	24	240	77.96	14	5.568571429	
a	M	IL	9	24	230	38.49	15	2.566	
a	M	IL	4	24	244	54	20	2.7	
a	A	NJ	9	11	158	20.02	2	10.01	j
a	A	NJ	9	NL					
a	A	NJ	15	23	217	124.18	8	15.5225	a
a	A	NJ	17	23	148	77.39	6	12.89833333	j
a	A	NJ	16	23	187	158.55	7	22.65	j
a	A	NJ	6	9	203	26.08	3	8.693333333	j
a	A	NJ	6	NL					
a	A	NJ	9	NL					
a	C	NJ	10	35	214	40.04	25	1.6016	
a	C	NJ	9	13	213	39.49	4	9.8725	
a	C	NJ	13	16	204	54.38	3	18.12666667	
a	C	NJ	13	16	215	127.11	3	42.37	
a	C	NJ	6	NL					
a	C	NJ	17	23	243	47.45	6	7.908333333	
a	C	NJ	6	23	225	83.21	17	4.894705882	
a	C	NJ	6	NL					
a	M	NJ	14	16	271	7.2	2	3.6	
a	M	NJ	11	14	245	49.21	3	16.40333333	
a	M	NJ	18	20	211	42.9	2	21.45	
a	M	NJ	7	8	212	44.41	1	44.41	
a	M	NJ	8	11	207	43.12	3	14.37333333	
a	M	NJ	13	15	199	31.71	2	15.855	
a	M	NJ	2	11	206	35.81	9	3.978888889	
a	M	NJ	8	11	225	28.89	3	9.63	
j	A	NJ	10	12	187	158.18	2	79.09	
j	A	NJ	16	23	185	140.25	7	20.03571429	
j	A	NJ	18	23	217	125.6	5	25.12	
j	A	NJ	7	23	189	117.62	16	7.35125	
j	A	NJ	7	22	158	89.14	15	5.942666667	
j	A	NJ	13	22	146	72.23	9	8.025555556	
j	A	NJ	17	22	138	52.94	5	10.588	
j	A	NJ	13	22	180	59.9	9	6.655555556	
j	C	NJ	14	16	192	122.15	2	61.075	
j	C	NJ	13	16	201	87.3	3	29.1	
j	C	NJ	14	NL					
j	C	NJ	11	16	185	155.74	5	31.148	
j	C	NJ	15	22	199	140.88	7	20.12571429	
j	C	NJ	13	NL					
j	C	NJ	16	22	186	60.29	6	10.04833333	

j	C	NJ	16	NL				
j	M	NJ	11	14	166	102.5	3	34.16666667
j	M	NJ	17	19	200	58.55	2	29.275
j	M	NJ	15	NL				
j	M	NJ	18	NL				
j	M	NJ	3	7	204		4	0
j	M	NJ	8	NL		53.33		
j	M	NJ	7	11	183	140.19	4	35.0475
j	M	NJ	7	8	174	29.63	1	29.63
								16.54654171

Age category: a=adult, j=juvenile. Treatment group: A=anosmic, M=magnetic, C=control. Capture location: IL=Illinois, NJ=New Jersey. Time to final bearing: NL=not located. 95%: classification of anosmic bearings as 'adult like' or 'juvenile like' according to whether they fall within the 95% confidence interval of the juvenile controls.
