



Fig. S1. Schematic representation of the experimental set-up.



Movie 1. Protocol used for the one-off test.



Movie 2. Calling dogs on streets in India.

Table S1. Effect of parameters (time interval, socialization index and latency) on long-term feeding (ground or hand) preference for additional food reward condition using Generalized Linear Mixed Model

Predictors – Day interval (day), Socialization index (bi), latency (latency)
Response – Feeding from hand / ground (feed)
Random effect – Identity of individuals (ind)

Model 1:							
<pre>> lrfit01 <- glmer(feed ~ day+bi+latency + (1 ind) , data=food, + family = binomial, glmerControl(optimizer = "bobyqa"))</pre>							
Generalized linear mixed model fit by maximum likelihood (Laplace Approximation) [
glmerMod]							
Family: binomial (logit)							
Formula: feed ~ day + bi + latency + (1 ind)							
Data: food							
Control: glmerControl(optimizer = "bobyqa")							
	AIC	BIC	logLik	deviance	df.resid		
	90.2	115.7	-36.1	72.2	117		
Scaled residuals:							
	Min	1Q	Median	3Q	Max		
	-1.6919	-0.2419	-0.1150	-0.0133	3.2908		
Random effects:							
	Groups Name	Variance	Std.Dev.				
	ind (Intercept)	1.816	1.348				
Number of obs: 126, groups: ind, 21							
Fixed effects:							
		Estimate	Std. Error	z value	Pr(> z)		
	(Intercept)	-13.10637	2.96509	-4.420	9.86e-06 ***		
	day1	-1.91762	1.24256	-1.543	0.1228		
	day3	-1.63570	1.18927	-1.375	0.1690		
	day6	-0.90371	1.18678	-0.761	0.4464		
	day10	-1.07413	1.23084	-0.873	0.3828		
	day15	-2.70258	1.35941	-1.988	0.0468 *		
	bi	2.11886	0.47461	4.464	8.03e-06 ***		
	latency	0.07831	0.06892	1.136	0.2558		

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1							
Correlation of Fixed Effects:							
	(Intr)	day1	day3	day6	day10	day15	bi
day1		0.024					
day3		0.017	0.540				

day6	-0.029	0.525	0.558				
day10	-0.045	0.496	0.521	0.518			
day15	0.222	0.539	0.551	0.518	0.488		
bi	-0.943	-0.235	-0.244	-0.209	-0.166	-0.424	
latency	-0.492	0.138	0.170	0.195	0.150	0.064	0.365
Model 2:							
<pre>> lrfmt02 <- glmer(feed ~ bi+latency + (1 ind) , data=food, + family = binomial, glmerControl(optimizer = "bobyqa"))</pre>							
Generalized linear mixed model fit by maximum likelihood (Laplace Approximation) [glmerMod]							
Family: binomial (logit)							
Formula: feed ~ bi + latency + (1 ind)							
Data: food							
Control: glmerControl(optimizer = "bobyqa")							
	AIC	BIC	logLik	deviance	df.resid		
	85.7	97.0	-38.8	77.7	122		
Scaled residuals:							
	Min	1Q	Median	3Q	Max		
	-1.9369	-0.2782	-0.1512	-0.0257	3.5909		
Random effects:							
	Groups Name	Variance	Std.Dev.				
	ind (Intercept)	1.501	1.225				
Number of obs: 126, groups: ind, 21							
Fixed effects:							
		Estimate	Std. Error	z value	Pr(> z)		
	(Intercept)	-13.06853	2.70265	-4.835	1.33e-06	***	
	bi	1.89215	0.41092	4.605	4.13e-06	***	
	latency	0.09984	0.06024	1.657	0.0974	.	

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1							
Correlation of Fixed Effects:							

(Intr) b _i				
b _i	-0.981			
latency	-0.500	0.445		
Model 3:				
<pre>> lrfit03 <- glmer(feed ~ latency*day + (1 ind) , data=food, + family = binomial, glmerControl(optimizer = "bobyqa"))</pre>				
Generalized linear mixed model fit by maximum likelihood (Laplace Approximation) [glmerMod]				
Family: binomial (logit)				
Formula: feed ~ latency * day + (1 ind)				
Data: food				
Control: glmerControl(optimizer = "bobyqa")				
AIC	BIC	logLik	deviance	df.resid
121.2	158.1	-47.6	95.2	113
Scaled residuals:				
Min	1Q	Median	3Q	Max
-1.57079	-0.21714	-0.11576	-0.01109	3.15089
Random effects:				
Groups Name	Variance	Std.Dev.		
ind (Intercept)	10.64	3.262		
Number of obs: 126, groups: ind, 21				
Fixed effects:				
	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-2.18766	1.53964	-1.421	0.155
latency	-0.03937	0.14875	-0.265	0.791
day1	-2.84978	2.09151	-1.363	0.173
day3	-0.29373	2.24816	-0.131	0.896
day6	0.40958	1.54596	0.265	0.791
day10	1.27589	1.98735	0.642	0.521
day15	-1.42551	1.84723	-0.772	0.440
latency:day1	0.68205	0.67915	1.004	0.315
latency:day3	-0.26339	1.23350	-0.214	0.831
latency:day6	-0.01155	0.42843	-0.027	0.978
latency:day10	-0.76239	0.62968	-1.211	0.226

Table S2. Effect of parameters (time interval, socialization index and latency) on long-term feeding (ground or hand) preference for social reward condition using Generalized Linear Mixed Model

Predictors – Day interval (day), Socialization index (bi), latency (latency)				
Response – Feeding from hand / ground (feed)				
Random effect – Identity of individuals (ind)				
Model 1:				
<pre>> lrfmt01 <- glmer(feed ~ day+bi+latency + (1 ind) , data=social, + family = binomial, glmerControl(optimizer = "bobyqa"))</pre>				
Generalized linear mixed model fit by maximum likelihood (Laplace Approximation) [glmerMod]				
Family: binomial (logit)				
Formula: feed ~ day + bi + latency + (1 ind)				
Data: social				
Control: glmerControl(optimizer = "bobyqa")				
	AIC	BIC	logLik	deviance df.resid
	145.0	170.9	-63.5	127.0 123
Scaled residuals:				
	Min	1Q	Median	3Q Max
	-2.2262	-0.3800	0.1067	0.3836 2.5167
Random effects:				
	Groups Name	Variance	Std.Dev.	
	ind (Intercept)	6.846	2.616	
Number of obs: 132, groups: ind, 22				
Fixed effects:				
	Estimate	Std. Error	z value	Pr(> z)
	(Intercept)	-7.8184	2.7953	-2.797 0.00516 **
	day1	2.5147	1.0566	2.380 0.01731 *
	day3	3.5102	1.1463	3.062 0.00220 **
	day6	1.8797	1.0410	1.806 0.07097 .
	day10	2.9811	1.1348	2.627 0.00862 **
	day15	3.3333	1.1776	2.831 0.00465 **
	bi	0.8148	0.3714	2.194 0.02827 *

latency	0.3027	0.1401	2.161	0.03067	*		

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1							
Correlation of Fixed Effects:							
	(Intr)	day1	day3	day6	day10	day15	bi
day1		-0.297					
day3		-0.372	0.640				
day6		-0.234	0.618	0.623			
day10		-0.284	0.641	0.667	0.637		
day15		-0.263	0.633	0.661	0.632	0.667	
bi		-0.917	0.045	0.118	-0.036	0.018	-0.005
latency		-0.563	0.376	0.447	0.413	0.433	0.440
0.367							
Model 2:							
<pre>> lrfit02 <- glmer(feed ~ bi+day + (1 ind) , data=social, + family = binomial, glmerControl(optimizer = "bobyqa"))</pre>							
Generalized linear mixed model fit by maximum likelihood (Laplace Approximation) [glmerMod]							
Family: binomial (logit)							
Formula: feed ~ bi + day + (1 ind)							
Data: social							
Control: glmerControl(optimizer = "bobyqa")							
	AIC	BIC	logLik	deviance	df.resid		
	147.4	170.5	-65.7	131.4	124		
Scaled residuals:							
	Min	1Q	Median	3Q	Max		
	-2.3493	-0.4183	0.1405	0.4207	2.3485		
Random effects:							
	Groups Name	Variance	Std.Dev.				
	ind (Intercept)	5.014	2.239				
Number of obs: 132, groups: ind, 22							
Fixed effects:							
	Estimate	Std. Error	z value	Pr(> z)			
	(Intercept)	-5.2176	2.2710	-2.297	0.02159	*	
	bi	0.6045	0.3349	1.805	0.07105	.	

day1	1.9627	0.9485	2.069	0.03853	*	
day3	2.7672	1.0112	2.736	0.00621	**	
day6	1.1664	0.9201	1.268	0.20492		
day10	2.2434	1.0029	2.237	0.02529	*	
day15	2.5420	1.0292	2.470	0.01351	*	

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1						
Correlation of Fixed Effects:						
	(Intr)	b _i	day1	day3	day6	day10
b _i		-0.929				
day1		-0.164	-0.070			
day3		-0.216	-0.011	0.600		
day6		-0.075	-0.160	0.583	0.565	
day10		-0.108	-0.126	0.602	0.605	0.582
day15		-0.084	-0.149	0.599	0.604	0.578
0.612						
Model 3:						
<pre>> lrfit03 <- glmer(feed ~ day+latency + (1 ind) , data=social, + family = binomial, glmerControl(optimizer = "bobyqa"))</pre>						
Generalized linear mixed model fit by maximum likelihood (Laplace Approximation) [glmerMod]						
Family: binomial (logit)						
Formula: feed ~ day + latency + (1 ind)						
Data: social						
Control: glmerControl(optimizer = "bobyqa")						
	AIC	BIC	logLik	deviance	df.resid	
	147.9	170.9	-65.9	131.9	124	
Scaled residuals:						
	Min	1Q	Median	3Q	Max	
	-2.2775	-0.3974	0.1138	0.3748	1.9095	
Random effects:						
	Groups Name	Variance	Std.Dev.			
	ind (Intercept)	8.178	2.86			
Number of obs: 132, groups: ind, 22						
Fixed effects:						

	Estimate	Std. Error	z value	Pr(> z)		
(Intercept)	-2.4646	1.1357	-2.170	0.03000	*	
day1	2.7231	1.0509	2.591	0.00956	**	
day3	3.6339	1.1417	3.183	0.00146	**	
day6	2.1658	1.0478	2.067	0.03872	*	
day10	3.2481	1.1005	2.952	0.00316	**	
day15	3.7163	1.1635	3.194	0.00140	**	
latency	0.2191	0.1303	1.682	0.09261	.	

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1						
Correlation of Fixed Effects:						
	(Intr)	day1	day3	day6	day10	day15
day1		-0.621				
day3		-0.647	0.643			
day6		-0.649	0.627	0.638		
day10		-0.652	0.647	0.671	0.646	
day15		-0.656	0.644	0.675	0.643	0.673
latency		-0.591	0.387	0.451	0.463	0.454 0.483

> anova(Lrfit202, Lrfit200)						
Data: social						
Models:						
Lrfit02: feed ~ day + latency + (1 ind)						
Lrfit01: feed ~ day + b1 + latency + (1 ind)						
	Df	AIC	BIC	logLik	deviance	Chisq Chi Df Pr(>Chisq)
Lrfit02	8	147.87	170.94	-65.936	131.87	
Lrfit01	9	144.98	170.92	-63.489	126.98	4.8953 1 0.02693 *

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1						