

Supplementary Table 1: Behavioral Data Models

	Associative Accuracy	Associative Accuracy Control	Response Time
(Intercept)	1.1 *** (0.15)	1.1 *** (0.16)	0.3 *** (0.02)
Preceding Judgment	0.18 ** (0.064)	0.17 * (0.071)	0.013~ (0.0069)
Response Bias	-0.48 * (0.23)	-0.5 * (0.24)	0.028 (0.015)
Stimulus Class		-0.018 (0.055)	-0.016 (0.01)
Preceding Response Time		0.051 (0.061)	
Centered Block Number			-0.029 *** (0.0054)
Scaled Trial Number			-0.0072 (0.0093)

Supplementary Table 1: Behavioral Data Models

N	2112	2112	1500
N (sub_num)	29	29	29
AIC	2.4e+03	2.4e+03	-39
BIC	2.4e+03	2.4e+03	30
R2 (fixed)	0.0086	0.01	
R2 (total)	0.15	0.097	

*** p < 0.001; ** p < 0.01; * p < 0.05; ~ 0.10 > p > 0.05

Supplementary Table 2: Retrieval Mode Localizer Recognition Accuracy by Preceded Encoding Judgment

	Retrieval Mode Localizer Response Accuracy
(Intercept)	0.95 *** (0.25)
Preceding Judgment at Learning	0.22~ (0.12)
Response Bias at Test	-0.02 (0.24)
N	405
N (sub_num)	28
AIC	477.71
BIC	501.74
R2 (fixed)	0.01
R2 (total)	0.23

*** p < 0.001; ** p < 0.01; * p < 0.05; ~ 0.10 > p > 0.05

Supplementary Table 3: ROI Definition

Regions of Interest (ROIs)	Probabilistic Atlas	Threshold
Medial Temporal Lobe Cortex	Parahippocampal Cortex (Ritchey et al., 2015)	25%
	Perirhinal Cortex (Ritchey et al., 2015)	25%
	Entorhinal Cortex (Amunts et al. 2020)	25%
Medial Parietal Cortex	Posterior Cingulate Gyrus (Harvard-Oxford Probabilistic Atlas)	25%
	Precuneus (Harvard-Oxford Probabilistic Atlas)	25%
Fusiform Cortex	Occipital Fusiform Cortex (Harvard-Oxford Probabilistic Atlas)	25%
	Temporal Occipital Fusiform Cortex (Harvard-Oxford Probabilistic Atlas)	35%
Hippocampus	Left and Right Hippocampus (Harvard-Oxford Probabilistic Atlas)	40%
Lateral Parietal Cortex	Superior Parietal Lobule (Harvard-Oxford Probabilistic Atlas)	25%
	Supramarginal Gyrus Anterior (Harvard-Oxford Probabilistic Atlas)	25%
	Supramarginal Gyrus Posterior (Harvard-Oxford Probabilistic Atlas)	25%
	Angular Gyrus (Harvard-Oxford Probabilistic Atlas)	25%
Dorsal & Lateral Prefrontal Cortex	Superior Frontal Gyrus (Harvard-Oxford Probabilistic Atlas)	25%
	Middle Frontal Gyrus (Harvard-Oxford Probabilistic Atlas)	25%
	Inferior Frontal Gyrus, Pars Opercularis (Harvard-Oxford Probabilistic Atlas)	25%
	Inferior Frontal Gyrus, Pars Triangularis (Harvard-Oxford Probabilistic Atlas)	25%
Ventromedial Prefrontal Cortex	Frontal Medial Cortex (Harvard-Oxford Probabilistic Atlas)	25%
Anterior Hippocampus	Hippocampal mask was segmented by identifying the slice corresponding to uncal apex (Weiss et al., 2005)	40%
Perirhinal Cortex	Perirhinal Cortex (Ritchey et al., 2015)	25%
Basal Forebrain Medial Septum & Diagonal Band of Broca (CH123)	Zaborszky et al., 2008; retrieved from SBM Anatomy Toolbox 3.0	40%
Basal Forebrain Nucleus Basalis (CH4)	Zaborszky et al., 2008; retrieved from SBM Anatomy Toolbox 3.0	40%
SN/VTA	Substantia nigra (Keuken & Forstmann, 2015)	10%
	Ventral tegmental area (Trutti et al., 2021)	20%
Locus coeruleus	Ye et al., 2021	10%

Supplementary Table 4: Broad ERS

	Hipp	MTLCortex	Fusiform	mPar	LPC	d&IPFC	vmPFC
(Intercept)	-0.00014 (0.0025)	0.0054 ** (0.0019)	0.008 ** (0.0029)	0.011 *** (0.0025)	0.0096 ** (0.0027)	0.0082 ** (0.0024)	0.0061 (0.0039)
Response Bias	0.0073 (0.005)	0.0022 (0.0042)	-0.011 (0.0063)	0.001 (0.0053)	-0.0083 (0.0058)	-0.0021 (0.0052)	-0.0042 (0.0093)
N	2187	2187	2187	2187	2187	2187	2187
N (sub_num)	29	29	29	29	29	29	29
AIC	-4.2e+03	-4.8e+03	-3e+03	-3.7e+03	-3.4e+03	-3.8e+03	-1.8e+03
BIC	-4.2e+03	-4.8e+03	-3e+03	-3.7e+03	-3.3e+03	-3.8e+03	-1.7e+03
R2 (fixed)	0.0011	0.00013	0.0015	1.6e-05	0.00096	7.7e-05	0.00012
R2 (total)	0.0064	0.00013	0.0015	1.6e-05	0.00096	7.7e-05	0.00012

*** p < 0.001; ** p < 0.01; * p < 0.05; LPC, d&IPFC, and vmPFC FDR corrected for multiple comparisons

Supplementary Table 5: Broad ERS

	Hipp	Hipp Control	MTLCortex	MTLCortex Control	Fusiform	Fusiform Control	mPar	mPar Control
(Intercept)	0.0015	0.0009	0.0081 ***	0.0076 ***	0.011 ***	0.012 ***	0.011 ***	0.0088 **
	(0.0026)	(0.0028)	(0.0021)	(0.0023)	(0.0031)	(0.0035)	(0.0027)	(0.003)
Preceding Judgment	0.0052 *	0.0051 *	0.0059 **	0.0058 **	0.0092 **	0.0094 **	0.0016	0.0013
	(0.0024)	(0.0024)	(0.0021)	(0.0021)	(0.0031)	(0.0031)	(0.0027)	(0.0027)
Response Bias	0.00051	0.00047	-0.0065	-0.0069	-0.024 **	-0.024 **	-0.0015	-0.0012
	(0.0058)	(0.0059)	(0.0049)	(0.005)	(0.0075)	(0.0075)	(0.0064)	(0.0064)
Accuracy		0.00066		-0.0004		-0.0023		0.0038
		(0.0023)		(0.0019)		(0.0029)		(0.0025)
Response Time		0.0013		0.0031		-0.00065		0.0043
		(0.0022)		(0.0019)		(0.0032)		(0.0025)
N	2112	2112	2112	2112	2112	2112	2112	2112
N (sub_num)	29	29	29	29	29	29	29	29
AIC	-4.1e+03	-4.1e+03	-4.7e+03	-4.7e+03	-2.9e+03	-2.9e+03	-3.6e+03	-3.6e+03
BIC	-4.1e+03	-4e+03	-4.6e+03	-4.6e+03	-2.9e+03	-2.9e+03	-3.6e+03	-3.5e+03
R2 (fixed)	0.0035	0.0037	0.0039	0.0052	0.0057	0.0061	0.00019	0.0024
R2 (total)	0.0074	0.0073	0.0039	0.0052	0.0057	0.0061	0.00019	0.0024

*** p < 0.001; ** p < 0.01; * p < 0.05.

Supplementary Table 6: Estimated Marginal Means of *a priori* reinstatement ROI Broad ERS preceding judgments

estimate	std.error	df	conf.low	conf.high	statistic	adj.p.value	Preceding Judgment	ROI
-0.0037526	0.00294278	44.829572	-0.0105775	0.00307224	-1.2752023	0.208806836	Novel	Hipp
0.00670024	0.00399745	138.960114	-0.0023578	0.01575825	1.6761308	0.191922132	Familiar	Hipp
-0.0039225	0.00309538	52.2324988	-0.0110662	0.00322125	-1.2671971	0.210705689	Novel	Hipp (control)
0.00633475	0.0041793	149.611416	-0.003128	0.01579747	1.51574367	0.210705689	Familiar	Hipp (control)
0.00224124	0.00241442	45.4003861	-0.0033558	0.00783831	0.92827321	0.358175017	Novel	MTLcortex
0.01402424	0.00338578	155.540447	0.00636117	0.02168732	4.14209773	0.000112599***	Familiar	MTLcortex
0.00263388	0.00256398	54.0302603	-0.0032776	0.00854537	1.02726175	0.308874318	Novel	MTLcortex (control)
0.01413683	0.00354858	164.041495	0.00610938	0.02216429	3.98380406	0.00020356***	Familiar	MTLcortex (control)
0.0021736	0.00364505	45.4003861	-0.0062763	0.01062349	0.59631536	0.553926381	Novel	fusiform
0.02049602	0.00511152	155.540447	0.00892709	0.03206496	4.00977435	0.00018818***	Familiar	fusiform
0.00281173	0.00388627	54.5848303	-0.0061458	0.01176926	0.72350279	0.472460261	Novel	fusiform (control)
0.02158309	0.00536603	164.33112	0.00944445	0.03372172	4.02217103	0.000175483***	Familiar	fusiform (control)
0.00977305	0.00312221	45.4003861	0.00253517	0.01701092	3.13016478	0.003291618**	Novel	mPar
0.01307063	0.00437834	155.540447	0.0031611	0.02298015	2.98529445	0.003291618**	Familiar	mPar
0.0085192	0.00331061	54.42983	0.0008879	0.01615051	2.57330153	0.017142717*	Novel	mPar (control)
0.01103749	0.00458386	165.623947	0.00066898	0.021406	2.4079057	0.017142717*	Familiar	mPar (control)

*** p < 0.001; ** p < 0.01; * p < 0.05; p-values FDR corrected for multiple comparisons

Supplementary Table 7: Broad ERS by Preceding Judgment & Control Models (*post-hoc ROIs*)

	LPC	LPC Control	d&IPFC	d&IPFC Control	vmPFC	vmPFC Control
(Intercept)	0.011 *** (0.0029)	0.0096 ** (0.0032)	0.0099 *** (0.0026)	0.007 * (0.0029)	0.0061 (0.0042)	0.0024 (0.0047)
Preceding Judgment	0.0032 (0.0029)	0.0032 (0.0029)	0.0022 (0.003)	0.0018 (0.003)	-0.00023 (0.0043)	-0.00076 (0.0044)
Response Bias	-0.013 (0.0069)	-0.013 (0.0069)	-0.0063 (0.0062)	-0.0057 (0.0062)	-0.004 (0.011)	-0.0042 (0.011)
Accuracy		0.0013 (0.0029)		0.0049 * (0.0024)		0.0038 (0.0039)
Response Time		0.0021 (0.0027)		0.0024 (0.0024)		0.0072 (0.0049)
N	2112	2112	2112	2112	2112	2112
N (sub_num)	29	29	29	29	29	29
AIC	-3.3e+03	-3.2e+03	-3.7e+03	-3.7e+03	-1.7e+03	-1.7e+03
BIC	-3.2e+03	-3.2e+03	-3.7e+03	-3.6e+03	-1.7e+03	-1.6e+03
R2 (fixed)	0.0016	0.0021	0.00054	0.0028	0.00013	0.0021
R2 (total)	0.0016	0.0021	0.00054	0.0028	0.00013	0.0021

*** p < 0.001; ** p < 0.01; * p < 0.05; p-values FDR corrected for multiple comparisons

Supplementary Table 8: Estimated Marginal Means of *post-hoc* reinstatement ROI Broad ERS preceding judgments

estimate	std.error	df	conf.low	conf.high	statistic	adj.p.value	Preceding Judgment	ROI
0.00766709	0.00334806	46.2309139	-8.96E-05	0.01542374	2.29000949	0.02663217*	Novel	d&IPFC
0.01203834	0.0044848	137.131217	0.00187453	0.02220215	2.68425396	0.01633056*	Familiar	d&IPFC
0.00574536	0.00351439	54.1059381	-0.0023571	0.01384778	1.63481018	0.10789439	Novel	d&IPFC (control)
0.00943578	0.004674	148.148316	-0.0011481	0.02001964	2.01878298	0.09062774	Familiar	d&IPFC (control)
0.00740532	0.00336689	45.4003861	-0.0003997	0.01521039	2.19945692	0.03297803*	Novel	LPC
0.01384486	0.00472145	155.540447	0.00315877	0.02453095	2.93233414	0.00774531**	Familiar	LPC
0.006943	0.0035905	52.4465492	-0.0013424	0.01522837	1.93371236	0.05855347	Novel	LPC (control)
0.01332151	0.00496125	157.946235	0.00209433	0.02454869	2.68510882	0.0160499*	Familiar	LPC (control)
0.00632589	0.00494921	42.5779005	-0.0051734	0.01782515	1.27816085	0.39522156	Novel	vmPFC
0.00587124	0.00688497	142.640442	-0.0097254	0.02146783	0.85276084	0.39522156	Familiar	vmPFC
0.00493019	0.0054062	52.1223867	-0.0075473	0.01740771	0.91195113	0.64181344	Novel	vmPFC (control)
0.00341116	0.00731833	149.546416	-0.013159	0.01998128	0.46611215	0.64181344	Familiar	vmPFC (control)

*** p < 0.001; ** p < 0.01; * p < 0.05; p-values FDR corrected for multiple comparisons

Supplementary Table 9: Category Information ERS

	Hipp	MTLCTortex	Fusiform	mPar	LPC	d&IPFC	vmPFC
(Intercept)	4.1e-05 (0.00048)	0.0007~ (0.00055)	0.0016 * (0.00078)	0.002 (0.001)	0.00025 (0.00065)	0.00014 (0.00056)	0.00065 (0.00081)
Response Bias	-0.00033 (0.001)	0.0016 (0.0011)	-0.0061 ** (0.002)	0.0053 * (0.0022)	-0.0007 (0.002)	0.00038 (0.0013)	-0.0029 (0.0018)
N	2187	2187	2187	2187	2187	2187	2187
N (sub_num)	29	29	29	29	29	29	29
AIC	-1.1e+04	-1.1e+04	-8.8e+03	-8.6e+03	-9.5e+03	-1e+04	-8.6e+03
BIC	-1.1e+04	-1.1e+04	-8.8e+03	-8.5e+03	-9.5e+03	-1e+04	-8.6e+03
R2 (fixed)	5.5e-05	0.0011	0.0062	0.0042	0.00012	4.5e-05	0.0013
R2 (total)	0.0032	0.0047	0.0062	0.012	0.00012	4.5e-05	0.0013

*** $p < 0.001$; ** $p < 0.01$; * $p < 0.05$; ~ $0.10 > p > 0.05$; LPC, d&IPFC, and vmPFC FDR corrected for multiple comparisons

Supplementary Table 10: Category Information ERS by Preceding Judgment & Control Models

	Hipp	Hipp Control	MTLCortex	MTLCortex Control	Fusiform	Fusiform Control	mPar	mPar Control
(Intercept)	0.00032 (0.00048)	0.00043 (0.00054)	0.00073 (0.00058)	0.00012 (0.00064)	0.003 *** (0.00084)	0.0035 *** (0.00094)	0.002 (0.0011)	0.0011 (0.001)
Preceding Judgment	0.00031 (0.00048)	0.00032 (0.00048)	-0.00028 (0.00059)	-0.00037 (0.0006)	0.0037 *** (0.00084)	0.0038 *** (0.00084)	-0.00043 (0.00096)	-0.00043 (0.00093)
Response Bias	-0.00093 (0.0012)	-0.001 (0.0012)	0.0019 (0.0013)	0.002 (0.0013)	-0.011 *** (0.0023)	-0.011 *** (0.0023)	0.0057 * (0.0025)	0.006 * (0.0024)
Accuracy		-0.00028 (0.00045)		0.00093 (0.0005)		-0.00098 (0.00081)		0.0019 (0.0011)
Response Time		9.4e-05 (0.00045)		0.00075 (0.0005)		-0.00031 (0.00078)		-0.00025 (0.00083)
N	2112	2112	2112	2112	2112	2112	2112	2112
N (sub_num)	29	29	29	29	29	29	29	29
AIC	-1.1e+04	-1.1e+04	-1e+04	-1e+04	-8.5e+03	-8.4e+03	-8.2e+03	-8.2e+03
BIC	-1.1e+04	-1.1e+04	-1e+04	-1e+04	-8.4e+03	-8.4e+03	-8.2e+03	-8.2e+03
R2 (fixed)	0.00035	0.00058	0.0011	0.0035	0.016	0.016	0.0042	0.0069
R2 (total)	0.00081	0.0011	0.004	0.0065	0.016	0.016	0.013	0.0085

*** p < 0.001; ** p < 0.01; * p < 0.05.

Supplementary Table 11: Estimated Marginal Means of *a priori* reinstatement ROI Category ERS preceding judgments

estimate	std.error	df	conf.low	conf.high	statistic	adj.p.value	Preceding Judgment	ROI
4.04E-06	0.00056201	42.8617994	-0.0013015	0.00130953	0.00717957	0.99430489	Novel	Hipp
0.00063093	0.0007848	145.3374	-0.0011465	0.00240839	0.80394024	0.84548895	Familiar	Hipp
0.00012782	0.00059743	51.5314662	-0.0012515	0.00150716	0.21395338	0.83142774	Novel	Hipp (control)
0.0007728	0.0008236	156.617802	-0.0010911	0.00263672	0.93832317	0.69904628	Familiar	Hipp (control)
0.00100705	0.00070499	47.613259	-0.0006247	0.00263874	1.42846204	0.31937272	Novel	MTLcortex
0.00044366	0.00093766	137.929457	-0.0016812	0.00256852	0.47315949	0.63684735	Familiar	MTLcortex
0.00067196	0.00074264	55.3782217	-0.0010391	0.002383	0.90482851	0.73895196	Novel	MTLcortex (control)
-6.27E-05	0.00098064	148.894404	-0.0022832	0.00215773	-0.0639702	0.94907978	Familiar	MTLcortex (control)
-0.0007689	0.00097895	41.4206939	-0.0030458	0.00150793	-0.7854773	0.43664394	Novel	fusiform
0.0066797	0.00137265	142.580004	0.0035702	0.00978919	4.86627043	5.95E-06***	Familiar	fusiform
-0.0003855	0.00104165	49.2512753	-0.0027938	0.00202283	-0.3700593	0.71292492	Novel	fusiform (control)
0.00717509	0.00144062	151.597383	0.00391369	0.01043649	4.98054539	3.41E-06***	Familiar	fusiform (control)
0.00246844	0.00123684	43.5122338	-0.000403	0.00533992	1.99576315	0.10448661	Novel	mPar
0.00160259	0.00160315	114.459556	-0.0020386	0.00524379	0.9996474	0.31958984	Familiar	mPar
0.00148992	0.00117189	46.5808197	-0.0012244	0.00420423	1.27138387	0.41980809	Novel	mPar (control)
0.00062856	0.00157575	131.165765	-0.0029443	0.00420145	0.3988965	0.69061814	Familiar	mPar (control)

*** p < 0.001; ** p < 0.01; * p < 0.05; p-values FDR corrected for multiple comparisons

Supplementary Table 12: Category Information ERS by Preceding Judgment & Control Models (*post-hoc ROIs*)

	LPC	LPC Control	d&lPFC	d&lPFC Control	vmPFC	vmPFC Control
(Intercept)	0.00059	0.00044	8.5e-05	-1.6e-05	0.0007	0.00043
	(0.00073)	(0.00081)	(0.00062)	(0.00068)	(0.00088)	(0.00098)
Preceding Judgment	0.0008	0.00078	-0.00049	-0.0005	-0.00085	-0.0009
	(0.00086)	(0.00086)	(0.00061)	(0.00061)	(0.001)	(0.001)
Response Bias	-0.002	-0.0019	0.00093	0.0012	-0.0019	-0.002
	(0.0022)	(0.0022)	(0.0015)	(0.0015)	(0.0021)	(0.0021)
Accuracy		0.00032		0.00049		0.00017
		(0.00067)		(0.00057)		(0.00081)
Response Time		-2.1e-06		-0.00088		0.00096
		(0.00066)		(0.0008)		(0.00088)
N	2112	2112	2112	2112	2112	2112
N (sub_num)	29	29	29	29	29	29
AIC	-9.2e+03	-9.2e+03	-9.8e+03	-9.8e+03	-8.3e+03	-8.3e+03
BIC	-9.2e+03	-9.1e+03	-9.8e+03	-9.7e+03	-8.3e+03	-8.2e+03
R2 (fixed)	0.00081	0.00092	0.00033	0.002	0.0019	0.0025
R2 (total)	0.002	0.0023	0.00088	0.002	0.0019	0.0025

*** p < 0.001; ** p < 0.01; * p < 0.05; p-values FDR Corrected for multiple comparisons

Supplementary Table 13: Estimated Marginal Means of *post-hoc* reinstatement ROI Category ERS preceding judgments

estimate	std.error	df	conf.low	conf.high	statistic	adj.p.value	Preceding Judgment	ROI
0.00057073	0.00071798	43.2151438	-0.0010966	0.00223801	0.79490918	0.6892321	Novel	d&IPFC
-0.0004014	0.00100179	146.110263	-0.0026702	0.00186737	-0.4006921	0.6892321	Familiar	d&IPFC
0.00027348	0.00076588	53.5291109	-0.0014928	0.00203976	0.35708213	0.72243425	Novel	d&IPFC (control)
-0.000723	0.00104959	158.027224	-0.0030982	0.00165216	-0.6888596	0.72243425	Familiar	d&IPFC (control)
-0.0002115	0.00097044	41.0736776	-0.0024693	0.00204626	-0.2179825	0.82852216	Novel	LPC
0.00138733	0.0012646	109.897217	-0.0014865	0.00426116	1.09705181	0.55003354	Familiar	LPC
-0.0003443	0.00101979	47.5782311	-0.0027047	0.00201607	-0.3376159	0.7371377	Novel	LPC (control)
0.00122425	0.00132113	120.555889	-0.0017744	0.00422288	0.92666312	0.71190577	Familiar	LPC (control)
0.00155135	0.001149	46.1487514	-0.0011108	0.00421345	1.3501754	0.36708942	Novel	vmPFC
-0.0001454	0.00152791	133.675408	-0.003609	0.00331831	-0.0951418	0.9243447	Familiar	vmPFC
0.00155001	0.0012054	53.9774239	-0.0012292	0.00432925	1.28588625	0.40794363	Novel	vmPFC (control)
-0.0002414	0.00159214	144.775444	-0.0038476	0.00336469	-0.1516424	0.8796801	Familiar	vmPFC (control)

*** p < 0.001; ** p < 0.01; * p < 0.05; p-values FDR corrected for multiple comparisons

Supplementary Table 14: Trial-Specific Information ERS

	Hipp	MTLCortex	Fusiform	mPar	LPC	d&IPFC	vmPFC
(Intercept)	-4.9e-05	0.0043 *	0.0057~	0.0077 **	0.0092 **	0.0082 **	0.0053
	(0.0024)	(0.0019)	(0.003)	(0.0025)	(0.0027)	(0.0025)	(0.004)
Response Bias	0.0076	0.0015	-0.0028	-0.004	-0.0075	-0.0039	-0.0021
	(0.005)	(0.0042)	(0.0063)	(0.0053)	(0.0058)	(0.0053)	(0.0098)
N	2187	2187	2187	2187	2187	2187	2187
N (sub_num)	29	29	29	29	29	29	29
AIC	-4.2e+03	-4.8e+03	-2.9e+03	-3.8e+03	-3.3e+03	-3.7e+03	-1.7e+03
BIC	-4.2e+03	-4.8e+03	-2.9e+03	-3.7e+03	-3.3e+03	-3.7e+03	-1.6e+03
R2 (fixed)	0.0012	6.1e-05	9.1e-05	0.00027	0.00076	0.00025	2.7e-05
R2 (total)	0.0042	6.1e-05	9.1e-05	0.00027	0.00076	0.00025	2.7e-05

*** p < 0.001; ** p < 0.01; * p < 0.05; LPC, d&IPFC, and vmPFC FDR corrected for multiple comparisons

Supplementary Table 15: Trial-Specific Information ERS by Preceding Judgment & Control Models

	Hipp	Hipp Control	MTLCortex	MTLCortex Control	Fusiform	Fusiform Control	mPar	mPar Control
(Intercept)	0.0015	0.0014	0.0069 ***	0.0069 **	0.0084 **	0.0092 **	0.0087 ***	0.0075 *
	(0.0025)	(0.0028)	(0.0021)	(0.0023)	(0.0032)	(0.0035)	(0.0026)	(0.0029)
Preceding Judgment	0.0052 *	0.0052 *	0.0058 **	0.0057 **	0.008 *	0.0082 *	0.0033	0.0031
	(0.0024)	(0.0024)	(0.0021)	(0.0021)	(0.0032)	(0.0032)	(0.0026)	(0.0026)
Response Bias	0.00092	0.00072	-0.0069	-0.0074	-0.014	-0.014	-0.0084	-0.0086
	(0.0059)	(0.0059)	(0.005)	(0.005)	(0.0076)	(0.0076)	(0.0063)	(0.0063)
Accuracy		-0.00011		-0.0013		-0.0015		0.0012
		(0.0025)		(0.0019)		(0.0029)		(0.0024)
Response Time		0.00087		0.0027		-0.00062		0.0033
		(0.0022)		(0.0019)		(0.0031)		(0.0025)
N	2112	2112	2112	2112	2112	2112	2112	2112
N (sub_num)	29	29	29	29	29	29	29	29
AIC	-4.1e+03	-4e+03	-4.7e+03	-4.6e+03	-2.9e+03	-2.9e+03	-3.7e+03	-3.6e+03
BIC	-4e+03	-4e+03	-4.6e+03	-4.6e+03	-2.8e+03	-2.8e+03	-3.6e+03	-3.6e+03
R2 (fixed)	0.0035	0.0036	0.0037	0.0049	0.0031	0.0033	0.001	0.0019
R2 (total)	0.0055	0.0048	0.0037	0.0049	0.0031	0.0033	0.001	0.0019

*** p < 0.001; ** p < 0.01; * p < 0.05.

Supplementary Table 16: Estimated Marginal Means of a *priori* reinstatement ROI Trial-Specific ERS preceding judgments

estimate	std.error	df	conf.low	conf.high	statistic	adj.p.value	Preceding Judgment	ROI
-0.0037939	0.0028981	44.8437187	-0.010515	0.00292731	-1.3090882	0.19717307	Novel	Hipp
0.00669688	0.00399452	145.680305	-0.0023499	0.01574368	1.67651875	0.19156257	Familiar	Hipp
-0.0036226	0.00304186	51.2846892	-0.0106466	0.00340143	-1.1909171	0.23916911	Novel	Hipp (control)
0.00680406	0.00416658	151.813717	-0.0026285	0.01623657	1.63300823	0.20907918	Familiar	Hipp (control)
0.00109068	0.00242509	45.4003861	-0.0045311	0.00671248	0.44974726	0.65503273	Novel	MTLcortex
0.01272224	0.00340075	155.540447	0.00502531	0.02041917	3.74101498	0.00051458***	Familiar	MTLcortex
0.00182485	0.00257435	54.1865146	-0.00411	0.00775975	0.70886072	0.48144967	Novel	MTLcortex (control)
0.0132946	0.00356351	164.658005	0.00523365	0.02135555	3.73076307	0.00052483***	Familiar	MTLcortex (control)
0.00041963	0.00369353	45.4003861	-0.0081427	0.00898192	0.11361312	0.91004541	Novel	fusiform
0.01647653	0.0051795	155.540447	0.00475372	0.02819934	3.18110291	0.00354273**	Familiar	fusiform
0.00085716	0.00392933	54.3813883	-0.0082006	0.0099149	0.21814415	0.82813333	Novel	fusiform (control)
0.01718513	0.00543346	164.618038	0.00489415	0.0294761	3.1628328	0.00372157**	Familiar	fusiform (control)
0.00542397	0.00307305	45.4003861	-0.0016999	0.01254786	1.76501407	0.08428735	Novel	mPar
0.01204762	0.00430939	155.540447	0.00229415	0.02180109	2.79567008	0.0116648**	Familiar	mPar
0.00518404	0.00326067	54.42983	-0.0023321	0.01270022	1.58987238	0.11765581	Novel	mPar (control)
0.01137031	0.0045147	165.623948	0.00115823	0.0215824	2.51850833	0.02546736**	Familiar	mPar (control)

*** p < 0.001; ** p < 0.01; * p < 0.05; p-values FDR corrected for multiple comparisons

Supplementary Table 17: Trial-Specific Information ERS by Preceding Judgment & Control Models (*post-hoc* ROIs)

	LPC	LPC Control	d&IPFC	d&IPFC Control	vmPFC	vmPFC Control
(Intercept)	0.011 *** (0.0029)	0.0097 ** (0.0033)	0.0098 *** (0.0026)	0.007 * (0.003)	0.0041 (0.0043)	0.00027 (0.0048)
Preceding Judgment	0.0048 (0.0029)	0.0049 (0.0029)	0.0029 (0.0029)	0.0025 (0.0029)	-0.002 (0.0047)	-0.0025 (0.0048)
Response Bias	-0.014 (0.007)	-0.014 * (0.007)	-0.0088 (0.0063)	-0.0085 (0.0063)	0.00055 (0.011)	0.00046 (0.011)
Accuracy		0.0008 (0.0033)		0.004 (0.0026)		0.0044 (0.004)
Response Time		0.002 (0.0027)		0.0043 (0.0025)		0.0072 (0.0047)
N	2112	2112	2112	2112	2112	2112
N (sub_num)	29	29	29	29	29	29
AIC	-3.2e+03	-3.2e+03	-3.6e+03	-3.6e+03	-1.6e+03	-1.6e+03
BIC	-3.2e+03	-3.2e+03	-3.6e+03	-3.6e+03	-1.6e+03	-1.5e+03
R2 (fixed)	0.002	0.0025	0.001	0.0034	0.00013	0.0021
R2 (total)	0.002	0.0025	0.001	0.0034	0.00013	0.0021

*** p < 0.001; ** p < 0.01; * p < 0.05; p-values FDR corrected for multiple comparisons

Supplementary Table 18: Estimated Marginal Means of *post-hoc* reinstatement ROI Trial-Specific ERS preceding judgments

estimate	std.error	df	conf.low	conf.high	statistic	adj.p.value	Preceding Judgment	ROI
0.00691051	0.00329919	46.2302406	-0.0007329	0.01455395	2.09460947	0.04171432*	Novel	d&IPFC
0.01278864	0.00448147	143.41346	0.00263731	0.02293998	2.85367057	0.00992426**	Familiar	d&IPFC
0.00553872	0.00347873	53.7952768	-0.0024828	0.01356023	1.59216765	0.11720677	Novel	d&IPFC (control)
0.01056933	0.0046818	151.684006	-2.97E-05	0.02116831	2.2575347	0.05080418	Familiar	d&IPFC (control)
0.00565887	0.00339777	45.4003861	-0.0022178	0.01353553	1.66546599	0.10270656	Novel	LPC
0.01534848	0.00476475	155.540447	0.00456437	0.02613258	3.2212533	0.00310887**	Familiar	LPC
0.00530633	0.00363581	50.6385334	-0.0030924	0.01370508	1.45946388	0.1506135	Novel	LPC (control)
0.01512512	0.00501503	151.282134	0.00377144	0.02647881	3.01595651	0.00601133**	Familiar	LPC (control)
0.00605587	0.00536874	42.9335888	-0.0064144	0.0185261	1.12798787	0.53117856	Novel	vmPFC
0.0021387	0.00727456	131.820883	-0.0143549	0.01863226	0.29399752	0.76922222	Familiar	vmPFC
0.00452384	0.00579485	51.2814824	-0.0088572	0.01790489	0.78066552	0.87717621	Novel	vmPFC (control)
-0.0005535	0.00769529	139.558506	-0.0179899	0.01688279	-0.0719318	0.94275913	Familiar	vmPFC (control)

*** p < 0.001; ** p < 0.01; * p < 0.05; p-values FDR corrected for multiple comparisons

Supplementary Table 19: Induction Trial Univariate Novelty/Familiarity Response

	SN/VTA	CH4	CH123	LC	PRC	aHipp
(Intercept)	-0.0051	0.013	0.0051	-0.0075	0.0029	-0.0065
	(0.02)	(0.02)	(0.02)	(0.02)	(0.02)	(0.02)
Judgment	0.086 ***	0.043 *	-0.0078	0.0077	0.028	-0.085 **
	(0.022)	(0.02)	(0.02)	(0.021)	(0.022)	(0.024)
N	2496	2496	2496	2496	2496	2496
N (sub_num)	29	29	29	29	29	29
AIC	7.1e+03	7.1e+03	7e+03	7.1e+03	7.1e+03	7e+03
BIC	7.1e+03	7.1e+03	7.1e+03	7.1e+03	7.1e+03	7.1e+03
R2 (fixed)	0.0075	0.0019	6.3e-05	6.1e-05	0.0008	0.0073
R2 (total)	0.0075	0.0019	6.3e-05	6.1e-05	0.0008	0.0073

*** p < 0.001; ** p < 0.01; * p < 0.05.

Supplementary Table 20: ERS by Induction Trial Univariate Responses

[illegible]

Supplementary Table 20: ERS by Induction Trial Univariate Responses

N (sub_num)	29	29	29	29	29	29	29	29
AIC	-4.1e+03	-4.7e+03	-2.9e+03	-3.7e+03	-4.2e+03	-4.7e+03	-2.9e+03	-3.6e+03
BIC	-4e+03	-4.6e+03	-2.8e+03	-3.6e+03	-4.1e+03	-4.6e+03	-2.8e+03	-3.5e+03
R2 (fixed)	0.0061	0.0073	0.00067	0.0012	0.0047	0.0048	0.0025	0.0013
R2 (total)	0.0093	0.0073	0.00067	0.0012	0.01	0.0048	0.0025	0.0013

*** p < 0.001; ** p < 0.01; * p < 0.05; ~ 0.10 < p < 0.05

Supplementary Table 21: ERS by Induction Trial Univariate Activity (*post-hoc* ROIs)

	LPC Trial	d&IPFC Trial	vmPFC Trial	LPC Broad	d&IPFC Broad	vmPFC Broad
(Intercept)	0.0092 ** (0.0027)	0.0083 ** (0.0024)	0.0053 (0.0039)	0.0096 *** (0.0027)	0.0083 *** (0.0024)	0.006 (0.0039)
aHipp	-0.00073 (0.0028)	-0.0026 (0.0027)	-0.0029 (0.0041)	-0.00071 (0.0028)	-0.0023 (0.0027)	-0.0022 (0.004)
PRC	-0.0046 (0.0028)	-0.0052 (0.0025)	-0.0024 (0.0055)	-0.0058~ (0.0027)	-0.0059~ (0.0025)	-0.002 (0.0053)
CH123	0.00044 (0.0024)	0.0001 (0.0022)	-0.0016 (0.0036)	0.0014 (0.0024)	0.0011 (0.0022)	-0.0008 (0.0035)
SN/VTA	0.002 (0.0028)	0.007 * (0.0024)	0.005 (0.0044)	0.0021 (0.0026)	0.0071 * (0.0024)	0.0043 (0.0043)
LC	0.0005 (0.0024)	0.0026 (0.0025)	-0.0026 (0.0036)	0.00019 (0.0024)	0.0028 (0.0022)	-0.0024 (0.0035)
CH4	-0.0018 (0.0024)	0.0019 (0.0032)	0.004 (0.0044)	-0.0019 (0.0024)	0.00083 (0.003)	0.0032 (0.0038)
Response Bias	-0.0072 (0.0058)	-0.0046 (0.0053)	-0.0019 (0.0099)	-0.0081 (0.0058)	-0.0024 (0.0052)	-0.0039 (0.0095)
N	2187	2187	2187	2187	2187	2187

Supplementary Table 21: ERS by Induction Trial Univariate Activity (*post-hoc* ROIs)

N (sub_num)	29	29	29	29	29	29
AIC	-3.3e+03	-3.7e+03	-1.6e+03	-3.3e+03	-3.7e+03	-1.7e+03
BIC	-3.2e+03	-3.6e+03	-1.5e+03	-3.2e+03	-3.7e+03	-1.6e+03
R2 (fixed)	0.0028	0.0077	0.0021	0.0041	0.008	0.0016
R2 (total)	0.0028	0.0077	0.0021	0.0041	0.008	0.0016

*** $p < 0.001$; ** $p < 0.01$; * $p < 0.05$; p-values FDR corrected for multiple comparisons

Supplementary Table 22: Univariate Mediation of MTL Cortex Broad ERS Familiarity Bias

	SN/VTA ~ MTL Cortex Broad ERS Familiarity Mediation	aHipp ~ MTL Cortex Broad ERS Novelty Mediation
ACME	0.004 *	0.002
ADE	0.063 *	0.063 *
Total Effect	0.067 *	0.065 *
Proportion Mediated	0.057~	0.033
nobs	2112	2112

*** $p < 0.001$; ** $p < 0.01$; * $p < 0.05$.

Supplementary Table 23: Univariate Mediation of MTL Cortex & Hippocampus Trial-Specific Information ERS Familiarity Bias

	SN/VTA ~ MTL Cortex Trial ERS Familiarity Mediation	SN/VTA ~ Hipp Trial ERS Familiarity Mediation	aHipp ~ MTL Cortex Trial ERS Novelty Mediation
ACME	0.004 *	0.004	0.003
ADE	0.063 *	0.047~	0.063 *
Total Effect	0.067 *	0.051~	0.066 *
Proportion Mediated	0.055~	0.061	0.034
nobs	2112		2112

*** p < 0.001; ** p < 0.01; * p < 0.05.

Supplementary Table 24: Probe Trial Univariate Novelty/Familiarity Response

	SN/VTA	CH4	CH123	LC	PRC	aHipp
(Intercept)	0.0012	-0.023	0.01	0.013	0.024	0.027
	(0.027)	(0.027)	(0.027)	(0.027)	(0.027)	(0.027)
Judgment	-0.0017	0.033	-0.015	-0.018	-0.034	-0.039
	(0.027)	(0.027)	(0.027)	(0.027)	(0.027)	(0.027)
N	2594	2594	2594	2594	2594	2594
N (sub_num)	29	29	29	29	29	29
AIC	7.4e+03	7.4e+03	7.4e+03	7.4e+03	7.4e+03	7.4e+03
BIC	7.4e+03	7.4e+03	7.4e+03	7.4e+03	7.4e+03	7.4e+03
R2 (fixed)	1.6e-06	0.00059	0.00012	0.00018	0.00063	0.00081
R2 (total)	1.6e-06	0.00059	0.00012	0.00018	0.00063	0.00081

*** p < 0.001; ** p < 0.01; * p < 0.05

Supplementary Table 25: Broad ERS by Probe Trial Univariate Activity

[illegible]

Supplementary Table 25: Broad ERS by Probe Trial Univariate Activity

N (sub_num)	29	29	29	29	29	29	29
AIC	-4.2e+03	-4.7e+03	-2.9e+03	-3.6e+03	-3.3e+03	-3.7e+03	-1.7e+03
BIC	-4.1e+03	-4.6e+03	-2.8e+03	-3.5e+03	-3.2e+03	-3.6e+03	-1.6e+03
R2 (fixed)	0.0035	0.0024	0.0041	0.0045	0.004	0.0033	0.002
R2 (total)	0.0088	0.0024	0.0041	0.0045	0.004	0.0033	0.002

*** p < 0.001; ** p < 0.01; * p < 0.05; p-values FDR corrected for multiple comparisons

Supplementary Table 26: Trial-Specific Information ERS by Probe Trial Univariate Activity

[illegible]

Supplementary Table 26: Trial-Specific Information ERS by Probe Trial Univariate Activity

N (sub_num)	29	29	29	29	29	29	29
AIC	-4.1e+03	-4.7e+03	-2.9e+03	-3.7e+03	-3.3e+03	-3.7e+03	-1.6e+03
BIC	-4e+03	-4.6e+03	-2.8e+03	-3.6e+03	-3.2e+03	-3.6e+03	-1.5e+03
R2 (fixed)	0.0043	0.0027	0.0025	0.0042	0.0036	0.0028	0.0014
R2 (total)	0.0074	0.0027	0.0025	0.0042	0.0036	0.0028	0.0014

*** p < 0.001; ** p < 0.01; * p < 0.05; p-values FDR corrected for multiple comparisons