

**Individual differences in visual word recognition: The role of epistemically unwarranted beliefs on affective processing and signal detection**

SUPPLEMENTARY MATERIAL: Linear mixed-effects models (LMEM) analyses over lexical decision task (LDT) response times (RTs)

**Table S1***LMEM comparison and final selection (PEUBI-S as EUB score, interaction with Valence)*

Model comparison					
Model	Model fit		Likelihood ratio test		
	logLike	AIC	$\chi^2$	df	<i>p</i>
SEOM	-156047	312134			
IEAM	-156046	312135	0.99	1	.319
Fixed effects					
	<i>b</i>	<i>SE</i>	95% CI	<i>t</i>	<i>p</i>
Intercept	638.60	72.50	[496.47, 780.67]	8.81	< .001
WPrev	-64.30	9.90	[-83.70, -44.90]	-6.50	< .001
Log_Frq	-35.18	4.67	[-44.34, -26.02]	-7.53	< .001
Log_abs_tok_MBOF	26.33	7.42	[11.80, 40.86]	3.55	< .001
Log_abs_tok_MTOF	-2.81	3.64	[-9.95, 4.33]	-0.77	.441
Num_letters	3.85	1.63	[0.66, 7.03]	2.37	.019
N	0.10	0.47	[-0.83, 1.02]	0.20	.839
NLD	-37.78	9.28	[-55.97, -19.59]	-4.07	< .001
Fam	-15.67	3.10	[-21.73, -9.60]	-5.06	< .001
AoA	4.66	1.72	[1.29, 8.02]	2.71	.007
Conc	3.53	2.69	[-1.74, 8.81]	1.31	.191
Val	-2.65	1.75	[-6.08, 0.79]	-1.51	.132
Aro	-3.43	2.34	[-8.01, 1.14]	-1.47	.143
Dict_Sen	-0.48	0.48	[-1.43, 0.47]	-0.98	.326
Trial	-0.05	0.00	[-0.05, -0.04]	-12.82	< .001

PrevError	13.97	2.50	[9.08, 18.86]	5.60	< .001
PEUBI-S	-1.36	1.26	[-3.83, 1.10]	-1.09	.280
Random effects					
	Variance	SD			
Intercept   Items	1295	35.98			
Intercept   Subjects	5170	71.91			
Residual	10252	101.25			
Model fit					
	Marginal	Conditional			
R <sup>2</sup>	14.29%	47.44%			

*Note.* SEOM = simple effects only model; IEAM = interactive effects added model; WPrev = word prevalence (in z scores); Log\_Frq = word frequency (in logarithmic scale); Log\_abs\_tok\_MBOF = bigram frequency (in logarithmic scale); Log\_abs\_tok\_MTOF = trigram frequency (in logarithmic scale); Num\_letters = number of letters; N = orthographic neighbours; NLD = normalized Levenshtein distance between Spanish-Catalan translations; Fam = familiarity; AoA = Age of acquisition; Conc = concreteness; Val = emotional valence; Aro = emotional arousal; Dict\_Sen = dictionary senses; Trial = trial order; PrevError = Correct/Incorrect response in the preceding trial; PEUBI-S = superstitions.

**Table S2***LMEM comparison and final selection (PEUBI-OP as EUB score, interaction with Valence)*

Model comparison					
Model	Model fit		Likelihood ratio test		
	logLike	AIC	$\chi^2$	df	<i>p</i>
SEOM	-156047	312135			
IEAM	-156046	312134	2.18	1	.140
Fixed effects					
	<i>b</i>	<i>SE</i>	95% CI	<i>t</i>	<i>p</i>
Intercept	628.90	75.20	[481.54, 776.33]	8.36	< .001
WPrev	-64.30	9.90	[-83.70, -44.90]	-6.50	< .001
Log_Frq	-35.18	4.67	[-44.34, -26.02]	-7.53	< .001
Log_abs_tok_MBOF	26.33	7.42	[11.80, 40.86]	3.55	< .001
Log_abs_tok_MTOF	-2.81	3.64	[-9.95, 4.33]	-0.77	.441
Num_letters	3.85	1.63	[0.66, 7.03]	2.37	.019
N	0.10	0.47	[-0.83, 1.02]	0.20	.839
NLD	-37.78	9.28	[-55.97, -19.59]	-4.07	< .001
Fam	-15.67	3.10	[-21.73, -9.60]	-5.06	< .001
AoA	4.66	1.72	[1.29, 8.02]	2.71	.007
Conc	3.53	2.69	[-1.74, 8.81]	1.31	.191
Val	-2.65	1.75	[-6.08, 0.79]	-1.51	.132
Aro	-3.43	2.34	[-8.01, 1.14]	-1.47	.143
Dict_Sen	-0.48	0.48	[-1.43, 0.47]	-0.98	.326
Trial	-0.05	0.00	[-0.05, -0.04]	-12.82	< .001

PrevError	13.98	2.50	[9.08, 18.87]	5.60	< .001
PEUBI-OP	-0.39	0.95	[-2.26, 1.47]	-0.41	.680
Random effects					
	Variance	SD			
Intercept   Items	1295	35.98			
Intercept   Subjects	5227	72.30			
Residual	10252	101.25			
Model fit					
	Marginal	Conditional			
R <sup>2</sup>	14.01%	47.44%			

*Note.* SEOM = simple effects only model; IEAM = interactive effects added model; WPrev = word prevalence (in z scores); Log\_Frq = word frequency (in logarithmic scale); Log\_abs\_tok\_MBOF = bigram frequency (in logarithmic scale); Log\_abs\_tok\_MTOF = trigram frequency (in logarithmic scale); Num\_letters = number of letters; N = orthographic neighbours; NLD = normalized Levenshtein distance between Spanish-Catalan translations; Fam = familiarity; AoA = Age of acquisition; Conc = concreteness; Val = emotional valence; Aro = emotional arousal; Dict\_Sen = dictionary senses; Trial = trial order; PrevError = Correct/Incorrect response in the preceding trial; PEUBI-OP = occultism and pseudoscience.

**Table S3***LMEM comparison and final selection (PEUBI-TR as EUB score, interaction with Valence)*

Model comparison					
Model	Model fit		Likelihood ratio test		
	logLike	AIC	$\chi^2$	df	<i>p</i>
SEOM	-156047	312135			
IEAM	-156047	312136	0.76	1	.385
Fixed effects					
	<i>b</i>	<i>SE</i>	95% CI	<i>t</i>	<i>p</i>
Intercept	617.40	71.51	[477.28, 757.58]	8.64	< .001
WPrev	-64.30	9.90	[-83.70, -44.90]	-6.50	< .001
Log_Frq	-35.18	4.67	[-44.34, -26.02]	-7.53	< .001
Log_abs_tok_MBOF	26.33	7.42	[11.80, 40.86]	3.55	< .001
Log_abs_tok_MTOF	-2.81	3.64	[-9.95, 4.33]	-0.77	.441
Num_letters	3.85	1.63	[0.66, 7.03]	2.37	.019
N	0.10	0.47	[-0.83, 1.02]	0.20	.839
NLD	-37.78	9.28	[-55.97, -19.59]	-4.07	< .001
Fam	-15.67	3.10	[-21.73, -9.60]	-5.06	< .001
AoA	4.66	1.72	[1.29, 8.02]	2.71	.007
Conc	3.53	2.69	[-1.74, 8.81]	1.31	.191
Val	-2.65	1.75	[-6.08, 0.79]	-1.51	.132
Aro	-3.43	2.34	[-8.01, 1.14]	-1.47	.143
Dict_Sen	-0.48	0.48	[-1.43, 0.47]	-0.98	.326
Trial	-0.05	0.00	[-0.05, -0.04]	-12.82	< .001

PrevError	13.97	2.50	[9.08, 18.87]	5.60	< .001
PEUBI-TR	0.00	1.37	[-2.68, 2.67]	0.00	1.000
Random effects					
	Variance	SD			
Intercept   Items	1295	35.98			
Intercept   Subjects	5236	72.36			
Residual	10252	101.25			
Model fit					
	Marginal	Conditional			
R <sup>2</sup>	13.96%	47.44%			

*Note.* SEOM = simple effects only model; IEAM = interactive effects added model; WPrev = word prevalence (in z scores); Log\_Frq = word frequency (in logarithmic scale); Log\_abs\_tok\_MBOF = bigram frequency (in logarithmic scale); Log\_abs\_tok\_MTOF = trigram frequency (in logarithmic scale); Num\_letters = number of letters; N = orthographic neighbours; NLD = normalized Levenshtein distance between Spanish-Catalan translations; Fam = familiarity; AoA = Age of acquisition; Conc = concreteness; Val = emotional valence; Aro = emotional arousal; Dict\_Sen = dictionary senses; Trial = trial order; PrevError = Correct/Incorrect response in the preceding trial; PEUBI-TR = traditional religion.

**Table S4***LMEM comparison and final selection (PEUBI-ELF as EUB score, interaction with Valence)*

Model comparison					
Model	Model fit		Likelihood ratio test		
	logLike	AIC	$\chi^2$	df	<i>p</i>
SEOM	-156047	312135			
IEAM	-156047	312136	.52	1	.472
Fixed effects					
	<i>b</i>	<i>SE</i>	95% CI	<i>t</i>	<i>p</i>
Intercept	626.00	73.33	[482.26, 769.73]	8.54	< .001
WPrev	-64.30	9.90	[-83.70, -44.90]	-6.50	< .001
Log_Frq	-35.18	4.67	[-44.34, -26.02]	-7.53	< .001
Log_abs_tok_MBOF	26.33	7.42	[11.80, 40.86]	3.55	< .001
Log_abs_tok_MTOF	-2.81	3.64	[-9.95, 4.33]	-0.77	.441
Num_letters	3.85	1.63	[0.66, 7.03]	2.37	.019
N	0.10	0.47	[-0.83, 1.02]	0.20	.839
NLD	-37.78	9.28	[-55.97, -19.59]	-4.07	< .001
Fam	-15.67	3.10	[-21.73, -9.60]	-5.06	< .001
AoA	4.66	1.72	[1.29, 8.02]	2.71	.007
Conc	3.53	2.69	[-1.74, 8.81]	1.31	.191
Val	-2.65	1.75	[-6.08, 0.79]	-1.51	.132
Aro	-3.43	2.34	[-8.01, 1.14]	-1.47	.143
Dict_Sen	-0.48	0.48	[-1.43, 0.47]	-0.98	.326
Trial	-0.05	0.00	[-0.05, -0.04]	-12.82	< .001



PrevError	13.97	2.50	[9.08, 18.87]	5.60	< .001
PEUBI-ELF	-0.85	2.21	[-5.17, 3.48]	-0.39	.701
Random effects					
	Variance	SD			
Intercept   Items	1295	35.98			
Intercept   Subjects	5228	72.31			
Residual	10252	101.25			
Model fit					
	Marginal	Conditional			
R <sup>2</sup>	14.00%	47.44%			

*Note.* SEOM = simple effects only model; IEAM = interactive effects added model; WPrev = word prevalence (in z scores); Log\_Frq = word frequency (in logarithmic scale); Log\_abs\_tok\_MBOF = bigram frequency (in logarithmic scale); Log\_abs\_tok\_MTOF = trigram frequency (in logarithmic scale); Num\_letters = number of letters; N = orthographic neighbours; NLD = normalized Levenshtein distance between Spanish-Catalan translations; Fam = familiarity; AoA = Age of acquisition; Conc = concreteness; Val = emotional valence; Aro = emotional arousal; Dict\_Sen = dictionary senses; Trial = trial order; PrevError = Correct/Incorrect response in the preceding trial; PEUBI-ELF = extraordinary life forms.

**Table S5***LMEM comparison and final selection (PEUBI-CT as EUB score, interaction with Valence)*

Model comparison					
Model	Model fit		Likelihood ratio test		
	logLike	AIC	$\chi^2$	df	<i>p</i>
SEOM	-156046	312133			
IEAM	-156046	312133	1.12	1	.289
Fixed effects					
	<i>b</i>	<i>SE</i>	95% CI	<i>t</i>	<i>p</i>
Intercept	672.30	79.12	[517.26, 827.39]	8.50	< .001
WPrev	-64.30	9.90	[-83.70, -44.90]	-6.50	< .001
Log_Frq	-35.18	4.67	[-44.34, -26.02]	-7.53	< .001
Log_abs_tok_MBOF	26.33	7.42	[11.80, 40.86]	3.55	< .001
Log_abs_tok_MTOF	-2.81	3.64	[-9.95, 4.33]	-0.77	.441
Num_letters	3.85	1.63	[0.66, 7.03]	2.37	.019
N	0.10	0.47	[-0.83, 1.02]	0.20	.839
NLD	-37.78	9.28	[-55.97, -19.59]	-4.07	< .001
Fam	-15.67	3.10	[-21.73, -9.60]	-5.06	< .001
AoA	4.66	1.72	[1.29, 8.02]	2.71	.007
Conc	3.53	2.69	[-1.74, 8.81]	1.31	.191
Val	-2.65	1.75	[-6.08, 0.79]	-1.51	.132
Aro	-3.43	2.34	[-8.01, 1.14]	-1.47	.143
Dict_Sen	-0.48	0.48	[-1.43, 0.47]	-0.98	.326
Trial	-0.05	0.00	[-0.05, -0.04]	-12.82	< .001

PrevError	13.97	2.50	[9.08, 18.86]	5.60	< .001
PEUBI-CT	-3.00	2.03	[-6.98, 0.98]	-1.48	.143
Random effects					
	Variance	SD			
Intercept   Items	1295	35.98			
Intercept   Subjects	5116	71.52			
Residual	10252	101.25			
Model fit					
	Marginal	Conditional			
R <sup>2</sup>	14.60%	47.46%			

*Note.* SEOM = simple effects only model; IEAM = interactive effects added model; WPrev = word prevalence (in z scores); Log\_Frq = word frequency (in logarithmic scale); Log\_abs\_tok\_MBOF = bigram frequency (in logarithmic scale); Log\_abs\_tok\_MTOF = trigram frequency (in logarithmic scale); Num\_letters = number of letters; N = orthographic neighbours; NLD = normalized Levenshtein distance between Spanish-Catalan translations; Fam = familiarity; AoA = Age of acquisition; Conc = concreteness; Val = emotional valence; Aro = emotional arousal; Dict\_Sen = dictionary senses; Trial = trial order; PrevError = Correct/Incorrect response in the preceding trial; PEUBI-CT = conspiracy theories.

**Table S6***LMEM comparison and final selection (PSEUDO-R as EUB score, interaction with Valence)*

Model comparison					
Model	Model fit		Likelihood ratio test		
	logLike	AIC	$\chi^2$	df	<i>p</i>
SEOM	-156047	312135			
IEAM	-156042	312127	9.83	1	.002
Fixed effects					
	<i>b</i>	<i>SE</i>	95% CI	<i>t</i>	<i>p</i>
Intercept	535.30	96.06	[347.01, 723.57]	5.57	< .001
WPrev	-64.34	9.91	[-83.76, -44.93]	-6.50	< .001
Log_Frq	-35.19	4.68	[-44.35, -26.02]	-7.53	< .001
Log_abs_tok_MBOF	26.35	7.42	[11.80, 40.89]	3.55	< .001
Log_abs_tok_MTOF	-2.82	3.65	[-9.96, 4.33]	-0.77	.441
Num_letters	3.85	1.63	[0.66, 7.04]	2.36	.019
N	0.10	0.47	[-0.83, 1.02]	0.20	.839
NLD	-37.80	9.29	[-56.00, -19.59]	-4.07	< .001
Fam	-15.68	3.10	[-21.75, -9.60]	-5.06	< .001
AoA	4.65	1.72	[1.29, 8.02]	2.71	.007
Conc	3.53	2.69	[-1.75, 8.81]	1.31	.192
Val	8.09	3.85	[0.55, 15.63]	2.10	.035
Aro	-3.43	2.34	[-8.01, 1.15]	-1.47	.144
Dict_Sen	-0.48	0.48	[-1.43, 0.47]	-0.99	.325
Trial	-0.05	0.00	[-0.05, -0.04]	-12.79	< .001

PrevError	13.96	2.50	[9.07, 18.85]	5.59	< .001
PSEUDO-R	1.48	1.18	[-0.84, 3.79]	1.25	.215
Val x PSEUDO-R	-0.19	0.06	[-0.31, -0.07]	-3.14	.002
Random effects					
	Variance	SD			
Intercept   Items	1297	36.01			
Intercept   Subjects	5228	72.30			
Residual	10248	101.23			
Model fit					
	Marginal	Conditional			
R <sup>2</sup>	14.02%	47.46%			

*Note.* SEOM = simple effects only model; IEAM = interactive effects added model; WPrev = word prevalence (in z scores); Log\_Frq = word frequency (in logarithmic scale); Log\_abs\_tok\_MBOF = bigram frequency (in logarithmic scale); Log\_abs\_tok\_MTOF = trigram frequency (in logarithmic scale); Num\_letters = number of letters; N = orthographic neighbours; NLD = normalized Levenshtein distance between Spanish-Catalan translations; Fam = familiarity; AoA = Age of acquisition; Conc = concreteness; Val = emotional valence; Aro = emotional arousal; Dict\_Sen = dictionary senses; Trial = trial order; PrevError = Correct/Incorrect response in the preceding trial; PSEUDO-R = pseudoscience.

**Table S7***LMEM comparison and final selection (PEUBI-S as EUB score, interaction with Arousal)*

Model comparison					
Model	Model fit		Likelihood ratio test		
	logLike	AIC	$\chi^2$	df	<i>p</i>
SEOM	-156047	312134			
IEAM	-156044	312131	4.70	1	.030
Fixed effects					
	<i>b</i>	<i>SE</i>	95% CI	<i>t</i>	<i>p</i>
Intercept	655.60	72.93	[512.62, 798.50]	8.99	< .001
WPrev	-64.29	9.90	[-83.69, -44.88]	-6.49	< .001
Log_Frq	-35.18	4.67	[-44.34, -26.02]	-7.53	< .001
Log_abs_tok_MBOF	26.33	7.42	[11.80, 40.87]	3.55	< .001
Log_abs_tok_MTOF	-2.81	3.64	[-9.95, 4.33]	-0.77	.441
Num_letters	3.85	1.63	[0.66, 7.03]	2.37	.019
N	0.10	0.47	[-0.83, 1.02]	0.21	.838
NLD	-37.79	9.28	[-55.98, -19.59]	-4.07	< .001
Fam	-15.66	3.10	[-21.73, -9.59]	-5.06	< .001
AoA	4.66	1.72	[1.29, 8.02]	2.71	.007
Conc	3.53	2.69	[-1.74, 8.81]	1.31	.191
Val	-2.65	1.75	[-6.08, 0.79]	-1.51	.132
Aro	-6.62	2.76	[-12.03, -1.21]	-2.40	.017
Dict_Sen	-0.48	0.48	[-1.43, 0.47]	-0.99	.325
Trial	-0.05	0.00	[-0.05, -0.04]	-12.83	< .001

PrevError	13.94	2.50	[9.05, 18.83]	5.59	< .001
PEUBI-S	-2.46	1.35	[-5.11, 0.20]	-1.82	.072
PEUBI-S:Arousal	0.20	0.09	[0.02, 0.39]	2.17	.030
Random effects					
	Variance	SD			
Intercept   Items	1295	35.98			
Intercept   Subjects	5171	71.91			
Residual	10250	101.24			
Model fit					
	Marginal	Conditional			
R <sup>2</sup>	14.30%	47.45%			

*Note.* SEOM = simple effects only model; IEAM = interactive effects added model; WPrev = word prevalence (in z scores); Log\_Frq = word frequency (in logarithmic scale); Log\_abs\_tok\_MBOF = bigram frequency (in logarithmic scale); Log\_abs\_tok\_MTOF = trigram frequency (in logarithmic scale); Num\_letters = number of letters; N = orthographic neighbours; NLD = normalized Levenshtein distance between Spanish-Catalan translations; Fam = familiarity; AoA = Age of acquisition; Conc = concreteness; Val = emotional valence; Aro = emotional arousal; Dict\_Sen = dictionary senses; Trial = trial order; PrevError = Correct/Incorrect response in the preceding trial; PEUBI-S = superstitions.

**Table S8***LMEM comparison and final selection (PEUBI-OP as EUB score, interaction with Arousal)*

Model comparison					
Model	Model fit		Likelihood ratio test		
	logLike	AIC	$\chi^2$	df	<i>p</i>
SEOM	-156047	312135			
IEAM	-156044	312130	6.51	1	.011
Fixed effects					
	<i>b</i>	<i>SE</i>	95% CI	<i>t</i>	<i>p</i>
Intercept	657.30	76.03	[508.26, 806.28]	8.65	< .001
WPrev	-64.28	9.90	[-83.69, -44.88]	-6.49	< .001
Log_Frq	-35.17	4.67	[-44.33, -26.01]	-7.53	< .001
Log_abs_tok_MBOF	26.32	7.42	[11.79, 40.86]	3.55	< .001
Log_abs_tok_MTOF	-2.81	3.64	[-9.95, 4.33]	-0.77	.442
Num_letters	3.84	1.63	[0.66, 7.03]	2.36	.019
N	0.10	0.47	[-0.83, 1.02]	0.21	.838
NLD	-37.78	9.28	[-55.97, -19.59]	-4.07	< .001
Fam	-15.67	3.10	[-21.73, -9.60]	-5.06	< .001
AoA	4.66	1.72	[1.29, 8.02]	2.71	.007
Conc	3.54	2.69	[-1.74, 8.82]	1.31	.190
Val	-2.65	1.75	[-6.09, 0.78]	-1.51	.131
Aro	-8.77	3.13	[-14.91, -2.62]	-2.80	.005
Dict_Sen	-0.48	0.48	[-1.43, 0.47]	-0.99	.325
Trial	-0.05	0.00	[-0.05, -0.04]	-12.81	< .001



PrevError	13.92	2.50	[9.03, 18.81]	5.58	< .001
PEUBI-OP	-1.36	1.03	[-3.37, 0.65]	-1.33	.186
PEUBI-OP:Arousal	0.18	0.07	[0.04, 0.32]	2.55	.011
Random effects					
	Variance	SD			
Intercept   Items	1295	35.99			
Intercept   Subjects	5226	72.29			
Residual	10250	101.24			
Model fit					
	Marginal	Conditional			
R <sup>2</sup>	14.02%	47.46%			

*Note.* SEOM = simple effects only model; IEAM = interactive effects added model; WPrev = word prevalence (in z scores); Log\_Frq = word frequency (in logarithmic scale); Log\_abs\_tok\_MBOF = bigram frequency (in logarithmic scale); Log\_abs\_tok\_MTOF = trigram frequency (in logarithmic scale); Num\_letters = number of letters; N = orthographic neighbours; NLD = normalized Levenshtein distance between Spanish-Catalan translations; Fam = familiarity; AoA = Age of acquisition; Conc = concreteness; Val = emotional valence; Aro = emotional arousal; Dict\_Sen = dictionary senses; Trial = trial order; PrevError = Correct/Incorrect response in the preceding trial; PEUBI-OP = occultism and pseudoscience.

**Table S9***LMEM comparison and final selection (PEUBI-TR as EUB score, interaction with Arousal)*

Model comparison					
Model	Model fit		Likelihood ratio test		
	logLike	AIC	$\chi^2$	df	<i>p</i>
SEOM	-156047	312135			
IEAM	-156047	312136	.69	1	.405
Fixed effects					
	<i>b</i>	<i>SE</i>	95% CI	<i>t</i>	<i>p</i>
Intercept	617.40	71.51	[477.28, 757.58]	8.64	< .001
WPrev	-64.30	9.90	[-83.70, -44.90]	-6.50	< .001
Log_Frq	-35.18	4.67	[-44.34, -26.02]	-7.53	< .001
Log_abs_tok_MBOF	26.33	7.42	[11.80, 40.86]	3.55	< .001
Log_abs_tok_MTOF	-2.81	3.64	[-9.95, 4.33]	-0.77	.441
Num_letters	3.85	1.63	[0.66, 7.03]	2.37	.019
N	0.10	0.47	[-0.83, 1.02]	0.20	.839
NLD	-37.78	9.28	[-55.97, -19.59]	-4.07	< .001
Fam	-15.67	3.10	[-21.73, -9.60]	-5.06	< .001
AoA	4.66	1.72	[1.29, 8.02]	2.71	.007
Conc	3.53	2.69	[-1.74, 8.81]	1.31	.191
Val	-2.65	1.75	[-6.08, 0.79]	-1.51	.132
Aro	-3.43	2.34	[-8.01, 1.14]	-1.47	.143
Dict_Sen	-0.48	0.48	[-1.43, 0.47]	-0.98	.326
Trial	-0.05	0.00	[-0.05, -0.04]	-12.82	< .001

PrevError	13.97	2.50	[9.08, 18.87]	5.60	< .001
PEUBI-TR	0.00	1.37	[-2.68, 2.67]	0.00	.998
Random effects					
	Variance	SD			
Intercept   Items	1295	35.98			
Intercept   Subjects	5236	72.36			
Residual	10252	101.25			
Model fit					
	Marginal	Conditional			
R <sup>2</sup>	13.96%	47.44%			

*Note.* SEOM = simple effects only model; IEAM = interactive effects added model; WPrev = word prevalence (in z scores); Log\_Frq = word frequency (in logarithmic scale); Log\_abs\_tok\_MBOF = bigram frequency (in logarithmic scale); Log\_abs\_tok\_MTOF = trigram frequency (in logarithmic scale); Num\_letters = number of letters; N = orthographic neighbours; NLD = normalized Levenshtein distance between Spanish-Catalan translations; Fam = familiarity; AoA = Age of acquisition; Conc = concreteness; Val = emotional valence; Aro = emotional arousal; Dict\_Sen = dictionary senses; Trial = trial order; PrevError = Correct/Incorrect response in the preceding trial; PEUBI-TR = traditional religion.

**Table S10***LMEM comparison and final selection (PEUBI-ELF as EUB score, interaction with Arousal)*

Model comparison					
Model	Model fit		Likelihood ratio test		
	logLike	AIC	$\chi^2$	df	<i>p</i>
SEOM	-156047	312135			
IEAM	-156046	312134	2.86	1	.091
Fixed effects					
	<i>b</i>	<i>SE</i>	95% CI	<i>t</i>	<i>p</i>
Intercept	626.00	73.33	[482.26, 769.73]	8.54	< .001
WPrev	-64.30	9.90	[-83.70, -44.90]	-6.50	< .001
Log_Frq	-35.18	4.67	[-44.34, -26.02]	-7.53	< .001
Log_abs_tok_MBOF	26.33	7.42	[11.80, 40.86]	3.55	< .001
Log_abs_tok_MTOF	-2.81	3.64	[-9.95, 4.33]	-0.77	.441
Num_letters	3.85	1.63	[0.66, 7.03]	2.37	.019
N	0.10	0.47	[-0.83, 1.02]	0.20	.839
NLD	-37.78	9.28	[-55.97, -19.59]	-4.07	< .001
Fam	-15.67	3.10	[-21.73, -9.60]	-5.06	< .001
AoA	4.66	1.72	[1.29, 8.02]	2.71	.007
Conc	3.53	2.69	[-1.74, 8.81]	1.31	.191
Val	-2.65	1.75	[-6.08, 0.79]	-1.51	.132
Aro	-3.43	2.34	[-8.01, 1.14]	-1.47	.143
Dict_Sen	-0.48	0.48	[-1.43, 0.47]	-0.98	.326
Trial	-0.05	0.00	[-0.05, -0.04]	-12.82	< .001

PrevError	13.97	2.50	[9.08, 18.87]	5.60	< .001
PEUBI-ELF	-0.85	2.21	[-5.17, 3.48]	-0.39	.701
Random effects					
	Variance	SD			
Intercept   Items	1295	35.98			
Intercept   Subjects	5228	72.31			
Residual	10252	101.25			
Model fit					
	Marginal	Conditional			
R <sup>2</sup>	14.00%	47.44%			

*Note.* SEOM = simple effects only model; IEAM = interactive effects added model; WPrev = word prevalence (in z scores); Log\_Frq = word frequency (in logarithmic scale); Log\_abs\_tok\_MBOF = bigram frequency (in logarithmic scale); Log\_abs\_tok\_MTOF = trigram frequency (in logarithmic scale); Num\_letters = number of letters; N = orthographic neighbours; NLD = normalized Levenshtein distance between Spanish-Catalan translations; Fam = familiarity; AoA = Age of acquisition; Conc = concreteness; Val = emotional valence; Aro = emotional arousal; Dict\_Sen = dictionary senses; Trial = trial order; PrevError = Correct/Incorrect response in the preceding trial; PEUBI-ELF = extraordinary life forms.

**Table S11***LMEM comparison and final selection (PEUBI-CT as EUB score, interaction with Arousal)*

Model comparison					
Model	Model fit		Likelihood ratio test		
	logLike	AIC	$\chi^2$	df	<i>p</i>
SEOM	-156046	312133			
IEAM	-156046	312133	1.07	1	.302
Fixed effects					
	<i>b</i>	<i>SE</i>	95% CI	<i>t</i>	<i>p</i>
Intercept	672.30	79.12	[517.26, 827.39]	8.50	< .001
WPrev	-64.30	9.90	[-83.70, -44.90]	-6.50	< .001
Log_Frq	-35.18	4.67	[-44.34, -26.02]	-7.53	< .001
Log_abs_tok_MBOF	26.33	7.42	[11.80, 40.86]	3.55	< .001
Log_abs_tok_MTOF	-2.81	3.64	[-9.95, 4.33]	-0.77	.441
Num_letters	3.85	1.63	[0.66, 7.03]	2.37	.019
N	0.10	0.47	[-0.83, 1.02]	0.20	.839
NLD	-37.78	9.28	[-55.97, -19.59]	-4.07	< .001
Fam	-15.67	3.10	[-21.73, -9.60]	-5.06	< .001
AoA	4.66	1.72	[1.29, 8.02]	2.71	.007
Conc	3.53	2.69	[-1.74, 8.81]	1.31	.191
Val	-2.65	1.75	[-6.08, 0.79]	-1.51	.132
Aro	-3.43	2.34	[-8.01, 1.14]	-1.47	.143
Dict_Sen	-0.48	0.48	[-1.43, 0.47]	-0.98	.326
Trial	-0.05	0.00	[-0.05, -0.04]	-12.82	< .001

PrevError	13.97	2.50	[9.08, 18.86]	5.60	< .001
PEUBI-CT	-3.00	2.03	[-6.98, 0.98]	-1.48	.143
Random effects					
	Variance	SD			
Intercept   Items	1295	35.98			
Intercept   Subjects	5116	71.52			
Residual	10252	101.25			
Model fit					
	Marginal	Conditional			
R <sup>2</sup>	14.60%	47.46%			

*Note.* SEOM = simple effects only model; IEAM = interactive effects added model; WPrev = word prevalence (in z scores); Log\_Frq = word frequency (in logarithmic scale); Log\_abs\_tok\_MBOF = bigram frequency (in logarithmic scale); Log\_abs\_tok\_MTOF = trigram frequency (in logarithmic scale); Num\_letters = number of letters; N = orthographic neighbours; NLD = normalized Levenshtein distance between Spanish-Catalan translations; Fam = familiarity; AoA = Age of acquisition; Conc = concreteness; Val = emotional valence; Aro = emotional arousal; Dict\_Sen = dictionary senses; Trial = trial order; PrevError = Correct/Incorrect response in the preceding trial; PEUBI-CT = conspiracy theories.

**Table S12***LMEM comparison and final selection (PSEUDO-R as EUB score, interaction with Arousal)*

Model comparison					
Model	Model fit		LRT		
	logLike	AIC	$\chi^2$	df	<i>p</i>
SEOM	-156047	312135			
IEAM	-156043	312129	7.65	1	.006
Fixed effects					
	<i>b</i>	<i>SE</i>	95% CI	<i>t</i>	<i>p</i>
Intercept	661.90	97.63	[470.55, 853.24]	6.78	< .001
WPrev	-64.30	9.90	[-83.71, -44.90]	-6.49	< .001
Log_Frq	-35.18	4.67	[-44.34, -26.02]	-7.53	< .001
Log_abs_tok_MBOF	26.33	7.42	[11.79, 40.86]	3.55	< .001
Log_abs_tok_MTOF	-2.80	3.64	[-9.94, 4.34]	-0.77	.442
Num_letters	3.84	1.63	[0.65, 7.03]	2.36	.019
N	0.09	0.47	[-0.83, 1.02]	0.20	.840
NLD	-37.77	9.28	[-55.96, -19.58]	-4.07	< .001
Fam	-15.66	3.10	[-21.73, -9.59]	-5.06	< .001
AoA	4.66	1.72	[1.29, 8.02]	2.71	.007
Conc	3.54	2.69	[-1.74, 8.82]	1.32	.190
Val	-2.66	1.75	[-6.09, 0.78]	-1.52	.131
Aro	-16.53	5.28	[-26.88, -6.18]	-3.13	.002
Dict_Sen	-0.48	0.48	[-1.43, 0.47]	-0.98	.326
Trial	-0.05	0.00	[-0.05, -0.04]	-12.82	< .001



PrevError	13.96	2.50	[9.07, 18.85]	5.59	< .001
PSEUDO-R	-0.80	1.22	[-3.20, 1.60]	-0.65	.515
PSEUDO-R:Arousal	0.24	0.09	[0.07, 0.40]	2.77	.006
Random effects					
	Variance	SD			
Intercept   Items	1295	35.99			
Intercept   Subjects	5228	72.30			
Residual	10249	101.24			
Model fit					
	Marginal	Conditional			
R <sup>2</sup>	14.01%	47.45%			

*Note.* SEOM = simple effects only model; IEAM = interactive effects added model; WPrev = word prevalence (in z scores); Log\_Frq = word frequency (in logarithmic scale); Log\_abs\_tok\_MBOF = bigram frequency (in logarithmic scale); Log\_abs\_tok\_MTOF = trigram frequency (in logarithmic scale); Num\_letters = number of letters; N = orthographic neighbours; NLD = normalized Levenshtein distance between Spanish-Catalan translations; Fam = familiarity; AoA = Age of acquisition; Conc = concreteness; Val = emotional valence; Aro = emotional arousal; Dict\_Sen = dictionary senses; Trial = trial order; PrevError = Correct/Incorrect response in the preceding trial; PSEUDO-R = pseudoscience.