

Figure 2-1: Model estimates of the full model for the effect of image category and covariates (Table 1, Eq. 1) on d' and LDI. Values indicate the positive (blue) or negative (red) mean estimate of the posterior distribution and whiskers represent the 50% (thick, inner) and 95% (thin, outer) CI. The effect of image category (F>NF) and Gender (M<F) on memory performance measures seemed to be evident as their 95% CI did not include Zero.



Figure 2-2: Odds ratios of the full model for the effect of image category and covariates on response accuracy (Table 1, Eq. 3). Values indicate the positive (blue) or negative (red) median odds ratio (exponentiated regression coefficients) and whiskers represent the 50% (thick, inner) and 95% (thin, outer) CI. The effect of image category (F>NF), image status (similar<old, new>old), normed complexity and Gender (M<F) on response accuracy were evident as their 95% CI did not include Zero.

	full model	null model
Predictors for d'	Estimates	Estimates
Intercept	1.23 (0.73 – 1.73)	1.26 (0.72 - 1.78)
Category (F > NF)	0.67	(0.72 - 1.10)
e	(0.16 - 1.17)	
Age	-0.00 (-0.02 - 0.01)	-0.00 (-0.02 - 0.01)
Gender (M > F)	-0.26 (-0.480.04)	-0.26 (-0.480.04)
Timepoint (FU > BL)	0.07 (-0.05 - 0.18)	0.07 (-0.05 - 0.19)
Intervention (Fiber > Placebo)	0.04 (-0.08 - 0.15)	0.04 (-0.08 - 0.14)
Timepoint * Intervention	-0.03 (-0.19 – 0.13)	-0.03 (-0.19 – 0.13)
Random Effects		
σ2	0.39	0.39
т ₀₀	0.02 Set	0.04 Set
	0.05 Subject	0.04 Subject
т ₁₁	0.28 Set.CategoryF	1.25 Set.CategoryF
	0.03 Subject.CategoryF	0.03 Subject.CategoryF
	0.00 Subject.hunger_mean_total	0.00 Subject.hunger_mean_total
	0.03 Subject.Wanting_catneutral	0.03 Subject.Wanting_catneutral
	0.04 Subject.Wanting_catwanted	0.04 Subject.Wanting_catwanted
	0.73 Subject.nQA_UF_mean	0.79 Subject.nQA_UF_mean
	0.27 Subject.CategoryF:nQA_UF_mean	0.29 Subject.CategoryF:nQA_UF_mean
	0.01 Subject.hunger_mean_total:nQA_UF_mean	0.01 Subject.hunger_mean_total:nQA_UF_mean
	0.34 Subject.Wanting_catneutral:nQA_UF_mean	0.32 Subject.Wanting_catneutral:nQA_UF_mean
	0.68 Subject.Wanting_catwanted:nQA_UF_mean	0.70 Subject.Wanting_catwanted:nQA_UF_mean
P01		
P01		
ICC	0.36	0.18
N	55 Subject	55 Subject
	4 Set	4 Set
Observations	1022	1022
Marginal R ² / Conditional R ²	0.204 / 0.426	0.032 / 0.425

Table 2-1: Full and null Bayesian linear regression models (BLRMs) for the effect of image category on d'.

Table 2-2: Full and null BLRMs for the effect of image category on LDI.	

	full model	null model
Predictors for LDI	Estimates	Estimates
Intercept	1.08 (0.53 – 1.57)	1.12 (0.57 – 1.66)
Category (F > NF)	0.73 (0.15 – 1.25)	
Age	-0.01 (-0.02 – 0.01)	-0.01 (-0.02 - 0.01)
Gender (M > F)	-0.29 (-0.510.06)	-0.29 (-0.51 – -0.07)
Timepoint (FU > BL)	0.07 (-0.06 - 0.19)	0.07 (-0.05 - 0.19)
Intervention (Fiber > Placebo)	0.05 (-0.07 - 0.17)	0.05 (-0.07 - 0.17)
Timepoint * Intervention	-0.01 (-0.17 – 0.17)	-0.00 (-0.18 – 0.17)
Random Effects		
σ2	0.46	0.46
т ₀₀	0.02 Set	0.04 Set
	0.05 Subject	0.06 Subject
т ₁₁	0.31 Set.CategoryF	1.45 Set.CategoryF
	0.03 Subject.CategoryF	0.03 Subject.CategoryF
	0.00 Subject.hunger_mean_total	0.00 Subject.hunger_mean_total
	0.02 Subject.Wanting_catneutral	0.02 Subject.Wanting_catneutral
	0.04 Subject.Wanting_catwanted	0.04 Subject.Wanting_catwanted
	0.79 Subject.nQA_UF_mean	0.79 Subject.nQA_UF_mean
	0.33 Subject.CategoryF:nQA_UF_mean	0.32 Subject.CategoryF:nQA_UF_mean
	0.01 Subject.hunger_mean_total:nQA_UF_mean	0.01 Subject.hunger_mean_total:nQA_UF_mean
	0.25 Subject.Wanting_catneutral:nQA_UF_mean	0.23 Subject.Wanting_catneutral:nQA_UF_mean
	0.66 Subject.Wanting_catwanted:nQA_UF_mean	0.66 Subject.Wanting_catwanted:nQA_UF_mean
ρ ₀₁		
Ρ01		
ICC	0.34	0.18
N	55 Subject	55 Subject
	4 Set	4 Set
Observations	1011	1011
Marginal R ² / Conditional R ²	0.213 / 0.415	0.039 / 0.414

	full model	null model
Predictors for response accuracy	Odds Ratios	Odds Ratios
Intercept	3.87 (2.23 – 6.81)	8.17 (5.03 – 13.49)
Category (F > NF)	1.76 (1.45 – 2.16)	
Wanting	1.05 (1.02 – 1.07)	1.05 (1.03 – 1.08)
Image Status (similar > old)	0.64 (0.50 – 0.84)	0.64 (0.49 – 0.85)
Image Status (new > old)	5.39 (3.94 – 7.47)	5.11 (3.70 – 7.25)
Normed Complexity	0.35 (0.16 – 0.83)	0.08 (0.04 – 0.15)
Gender $(M > F)$	0.82 (0.69 – 0.98)	0.82 (0.68 – 0.98)
Age	1.00 (0.98 – 1.01)	1.00 (0.99 – 1.01)
Timepoint (FU > BL)	1.00 (0.90 – 1.09)	1.00 (0.91 – 1.09)
Intervention (Fiber > Placebo)	1.04 (0.95 – 1.14)	1.04 (0.96 – 1.14)
Timepoint * Intervention	1.01 (0.89 – 1.14)	1.00 (0.88 – 1.14)
Random Effects		
σ2	3.29	3.29
T ₀₀	0.55 Image	0.58 Image
	0.13 _{Subject}	0.13 Subject
T ₁₁	0.07 Subject.CategoryF	0.08 Subject.CategoryF
	0.00 Subject Wanting	0.00 Subject Wanting
	0.66 Subject.Statussimilar	0.66 Subject Statussimilar
	0.89 Subject.Statusnew	0.89 Subject.Statusnew
ρ ₀₁	,	,
ρ ₀₁		
ICC	0.24	0.23
Ν	56 _{Subject}	56 _{Subject}
	640 Image	640 Image
Observations	28395	28395
Marginal R ² / Conditional R ²	0.080 / 0.198	0.072 / 0.197

Table 2-3: Full and null BLRMs for the effect of image category on response accuracy.



Figure 3-1: Odds ratios of the full model for the effect of normed complexity and covariates on response accuracy (Table 1, Eq. 5). Values indicate the positive (blue) or negative (red) median odds ratio (exponentiated regression coefficients) and whiskers represent the 50% (thick, inner) and 95% (thin, outer) CI. The effect of normed complexity on response accuracy was evidently different between image categories as the interaction's 95% CI did not include Zero.



Figure 3-2: Predicted and actual response accuracy depending on normed complexity of each image category separately. Points show the averaged response accuracy of each image over its normed complexity and lines with 95%-CI depict predictions based on full models. Higher normed complexity seemed to evidently predict lower response accuracy of (A) food items but not of (B) non-food/art items.

Table 3-1:	Full and null BLR	Ms for the e	ffect of	f normed in	nag	e comple	xity on l	resp	oonse acci	uracy.

	full model	null model 1	null model 2
Predictors for response accuracy	Odds Ratios	Odds Ratios	Odds Ratios
Intercept	2.76 (1.44 – 5.21)	3.92 (2.25 – 6.86)	2.49 (1.61 – 3.81)
Category (F > NF)	3.10 (1.69 – 5.59)	1.76 (1.42 – 2.13)	2.07 (1.78 – 2.43)
Wanting	1.05 (1.02 – 1.07)	1.05 (1.02 – 1.07)	1.05 (1.02 – 1.07)
Image Status (similar > old)	0.65 (0.50 - 0.84)	0.64 (0.49 – 0.83)	0.64 (0.50 – 0.83)
Image Status (new > old)	5.37 (3.93 – 7.44)	5.38 (3.93 – 7.40)	5.33 (3.90 – 7.31)
normed Complexity	0.77 (0.25 – 2.39)	0.35 (0.15 – 0.78)	
Gender (M > F)	0.82 (0.68 – 0.99)	0.82 (0.68 – 0.98)	0.82 (0.68 – 0.98)
Age	1.00 (0.99 – 1.01)	1.00 (0.99 – 1.01)	1.00 (0.99 – 1.01)
Timepoint (FU > BL)	1.00 (0.91 – 1.10)	1.00 (0.91 – 1.09)	1.00 (0.91 – 1.09)
Intervention (Fiber > Placebo)	1.04 (0.95 – 1.14)	1.04 (0.96 – 1.14)	1.04 (0.96 – 1.14)
Category (F > NF) * normed Complexity	0.18 (0.03 – 0.96)		
Timepoint * Intervention	1.00 (0.88 – 1.14)	1.00 (0.88 – 1.14)	1.00 (0.88 – 1.14)
Random Effects			
σ2	3.29	3.29	3.29
т ₀₀	0.55 Image	0.55 Image	0.56 Image
	0.13 _{Subject}	0.13 _{Subject}	0.13 _{Subject}
T ₁₁	0.07 Subject.CategoryF	0.07 Subject.CategoryF	0.07 Subject.CategoryF
	0.00 Subject.Wanting	0.00 Subject.Wanting	0.00 Subject.Wanting
	0.65 Subject.Statussimilar	0.65 Subject.Statussimilar	0.65 Subject.Statussimilar
	0.88 Subject.Statusnew	0.89 Subject.Statusnew	0.88 Subject.Statusnew
	0.07 Subject.complexity_norm	0.08 Subject.complexity_norm	0.08 Subject.complexity_norm
ρ ₀₁			
ρ ₀₁			
ICC	0.24	0.24	0.24
Ν	56 _{Subject}	56 _{Subject}	56 _{Subject}
	640 Image	640 Image	640 Image
Observations	28395	28395	28395
Marginal R2 / Conditional R2	0.081 / 0.198	0.081 / 0.198	0.079 / 0.198

Table 3-2: Full and null BLRMs	for the effect o	f normed image com	plexity on resp	onse accuracy of	food images.

	full model	null model
Predictors for response accuracy	Odds Ratios	Odds Ratios
Intercept	10.30 (5.30 – 19.79)	6.23 (3.37 – 10.98)
Wanting	1.03 (1.00 – 1.07)	1.03 (1.00 – 1.07)
Image Status (similar > old)	0.78 (0.53 – 1.16)	0.78 (0.54 – 1.13)
Image Status (new > old)	6.08 (4.00 – 9.56)	6.19 (4.03 – 9.78)
Calorie Quartile (cal2 > cal1)	1.08 (0.79 – 1.48)	1.03 (0.75 – 1.43)
Calorie Quartile (cal3 > cal1)	1.28 (0.95 – 1.77)	1.24 (0.92 – 1.70)
Calorie Quartile (cal4 > cal1)	1.38 (1.01 – 1.89)	1.36 (0.99 – 1.88)
Normed Complexity	0.13 (0.03 – 0.49)	
Gender (M > F)	0.68 (0.53 – 0.87)	0.68 (0.53 – 0.87)
Age	0.99 (0.98 – 1.01)	0.99 (0.98 – 1.01)
Timepoint (FU > BL)	1.02 (0.88 – 1.17)	1.02 (0.88 – 1.17)
Intervention (Fiber > Placebo)	1.11 (0.96 – 1.26)	1.11 (0.96 – 1.26)
Timepoint * Intervention	0.95 (0.78 – 1.16)	0.95 (0.78 – 1.16)
Random Effects		
σ2	3.29	3.29
т ₀₀	0.70 Image	0.72 Image
	0.28 Subject	0.28 _{Subject}
T ₁₁	0.00 Subject.Wanting	0.00 Subject.Wanting
	1.21 Subject.Statussimilar	1.21 Subject.Statussimilar
	1.11 Subject.Statusnew	1.12 Subject.Statusnew
	0.11 Subject.Typecal2	0.11 Subject.Typecal2
	0.09 Subject.Typecal3	0.09 Subject.Typecal3
	0.03 Subject.Typecal4	0.03 Subject.Typecal4
ρ ₀₁		
ρ ₀₁		
ICC	0.30	0.31
Ν	56 _{Subject}	56 _{Subject}
	320 Image	320 Image
Observations	14213	14213
Marginal R ² / Conditional R ²	0.043 / 0.205	0.038 / 0.205

Table 3-3: Full and null BLRMs for the effect of normed image complexity on response accuracy of art (non-food) images.

	full model	null model
Predictors for response accuracy	Odds Batios	Odds Batios
Intercept	6 75	3 17
intercept	(2.66 – 17.46)	(1.84 – 5.55)
Wanting	1.07	1.07
·	(1.04 – 1.11)	(1.04 – 1.11)
Image Status (similar > old)	0.56 (0.43 – 0.73)	0.57 (0.43 – 0.75)
Image Status (new > old)	5.19 (3.74 – 7.39)	5.16 (3.61 – 7.42)
Type (plants > animals)	0.81 (0.59 – 1.12)	0.79 (0.57 – 1.07)
Type (objects > animals)	0.95 (0.74 – 1.22)	0.94 (0.73 – 1.21)
Style (Dalà > Azulejos)	0.57 (0.37 – 0.90)	0.74 (0.51 – 1.06)
Style (Hundertwasser > Azulejos)	0.58 (0.39 – 0.87)	0.69 (0.48 – 0.97)
Style (Klimt > Azulejos)	0.87 (0.61 – 1.23)	0.87 (0.61 – 1.25)
Style (Munch > Azulejos)	0.71 (0.45 - 1.09)	0.90 (0.63 - 1.30)
Style (Picasso > Azulejos)	0.74	0.88 (0.63 - 1.24)
Style (Pointilism > Azulejos)	0.76 (0.54 - 1.10)	0.83 (0.58 - 1.18)
Style (popart > Azulejos)	0.73	0.80
Normed Complexity	0.22	(0.00 1110)
Gender (M > F)	0.87 (0.72 - 1.05)	0.87 (0.72 - 1.05)
Age	1.00 (0.98 – 1.01)	1.00 (0.98 – 1.01)
Timepoint (FU > BL)	0.98 (0.87 - 1.11)	0.98 (0.87 - 1.11)
Intervention (Fiber > Placebo)	(0.07 - 1.17) 1.01 (0.90 - 1.13)	1.01 (0.90 - 1.13)
Timepoint * Intervention	1.03 (0.87 - 1.22)	1.03 (0.87 - 1.22)
	(0.07 - 1.22)	(0.07 - 1.22)
d2	3 29	3.29
Too	0.45	0.45
.00	0.06 Subject	0.06 Subject
T.,	0.00 Subject	0.00 Subject
.11	0.52 Subject Statussimilar	0.53 Subject Statussimilar
	0.85 Subject Statuspew	0.84 Subject Statusnew
	0.02 Subject Typeplants	0.02 Subject Typeplants
	0.02 Subject Typephiaste	0.02 Subject Typeobjects
	0.02 Subject Styledali	0.02 Subject Stylodali
	0.02 Subject Stylebundertwasser	0.02 Subject Stylebundertwasser
	0.02 Subject Styleklimt	0.02 Subject Styleklimt
	0.01 Subject Stylemunah	0.01 Subject Stylemunsh
	0.01 Subject Stylenianch	0.01 Subject Stylesieses
	0.02 output output output	0.02 o Li u o Li u i u
	0.08 Subject Stylepointilism	0.08 Subject Stylepointilism
ρ ₀₁	оплентотлериран	ousjeet.otyjepopart
P01		
ICC	0.21	0.21
Ν	56 Subject	56 Subject
	320 Image	320 Imago
Observations		image
Marginal R2 / Conditional R2	0.090 / 0.186	0.089/0.186
and gind n= / conditional n=	0.0007 0.100	0.0007 0.100



Figure 3-3: Predicted and actual response accuracy depending on object size of each image category separately. Points show the averaged response accuracy of each image over its object size and lines with 95%-CI depict predictions based on full models. Higher object size seemed to evidently predict lower response accuracy of (A) food images but not higher response accuracy of (B) non-food/art images.

Table 3-4:Full and null BL	RMs for the effect of	f object size on resp	onse accuracy of food images.	
	full model	null model		

	full model	null model
Predictors for response accuracy	Odds Ratios	Odds Ratios
Intercept	17.57 (7.69 – 40.24)	10.30 (5.30 – 19.79)
Wanting	1.03 (1.00 – 1.07)	1.03 (1.00 – 1.07)
Image Status (similar > old)	0.80 (0.54 – 1.14)	0.78 (0.53 – 1.16)
Image Status (new > old)	5.86 (3.86 – 9.06)	6.08 (4.00 – 9.56)
Calorie Quartile (cal2 > cal1)	1.14 (0.84 – 1.56)	1.08 (0.79 – 1.48)
Calorie Quartile (cal3 > cal1)	1.35 (1.00 – 1.86)	1.28 (0.95 – 1.77)
Calorie Quartile (cal4 > cal1)	1.42 (1.03 – 1.94)	1.38 (1.01 – 1.89)
Object size	0.25 (0.08 – 0.76)	
Normed Complexity	0.09 (0.02 – 0.37)	0.13 (0.03 – 0.49)
Gender (M > F)	0.68 (0.53 – 0.87)	0.68 (0.53 – 0.87)
Age	0.99 (0.98 – 1.01)	0.99 (0.98 – 1.01)
Timepoint (FU > BL)	1.02 (0.88 – 1.17)	1.02 (0.88 – 1.17)
Intervention (Fiber > Placebo)	1.11 (0.97 – 1.27)	1.11 (0.96 – 1.26)
Timepoint * Intervention	0.95 (0.78 – 1.16)	0.95 (0.78 – 1.16)
Random Effects		
σ2	3.29	3.29
т ₀₀	0.68 Image	0.70 Image
	0.29 Subject	0.28 Subject
T ₁₁	0.00 Subject.Wanting	0.00 Subject.Wanting
	1.23 Subject.Statussimilar	1.21 Subject.Statussimilar
	1.13 Subject.Statusnew	1.11 Subject.Statusnew
	0.10 Subject.Typecal2	0.11 Subject.Typecal2
	0.09 Subject.Typecal3	0.09 Subject.Typecal3
0	0.03 Subject.Typecal4	0.03 Subject.Typecal4
P01		
P01	0.30	0.30
N	56 Subject	56 Subject
	320 Image	320 Image
Observations	14213	14213
Marginal R2 / Conditional R2	0.044 / 0.205	0.043 / 0.205

Table 3-5: Full and null E	BLRMs for the e	effect of object size or	n response accuracy of art (non-food) images.
	full model	null model	
	Outsta Datia	A <i>i i</i> B <i>i</i>	

	full model	null model
Predictors for response accuracy	Odds Ratios	Odds Ratios
Intercept	4.53 (1.40 – 13.63)	6.75 (2.66 – 17.46)
Wanting	1.07	1.07
Image Status (similar > old)	0.57	0.56 (0.43 - 0.73)
Image Status (new > old)	5.10 (3.64 – 7.36)	5.19 (3.74 – 7.39)
Type (plants > animals)	0.80	0.81
Type (objects > animals)	(0.58 – 1.09) 0.96	(0.59 – 1.12) 0.95
Style (Dalà > Azulaios)	(0.74 – 1.23)	(0.74 – 1.22)
	(0.39 – 1.04)	(0.37 - 0.90)
Style (Hundertwasser > Azulejos)	0.61 (0.41 – 0.93)	0.58 (0.39 – 0.87)
Style (Klimt > Azulejos)	0.88 (0.61 – 1.24)	0.87 (0.61 – 1.23)
Style (Munch > Azulejos)	0.76 (0.48 – 1.21)	0.71 (0.45 – 1.09)
Style (Picasso > Azulejos)	0.81 (0.54 – 1.22)	0.74 (0.51 – 1.08)
Style (Pointilism > Azulejos)	0.77 (0.53 – 1.11)	0.76 (0.54 – 1.10)
Style (popart > Azulejos)	0.76 (0.52 – 1.11)	0.73 (0.50 – 1.05)
Object size	1.85 (0.82 – 4.29)	,,
Normed Complexity	0.33	0.22
Gender (M > F)	0.87	0.87
Age	(0.72 – 1.05) 1.00	(0.72 – 1.05) 1.00
	(0.98 - 1.01)	(0.98 - 1.01)
Timepoint (FU > BL)	0.98 (0.88 – 1.11)	0.98 (0.87 – 1.11)
Intervention (Fiber > Placebo)	1.01 (0.90 – 1.13)	1.01 (0.90 – 1.13)
Timepoint * Intervention	1.03 (0.87 – 1.21)	1.03 (0.87 – 1.22)
Random Effects		
σ2	3.29	3.29
T ₀₀	0.45 Image	0.45 Image
	0.06 Subject	0.06 Subject
T ₁₁	0.00 Subject.Wanting	0.00 Subject.Wanting
	0.52 Subject.Statussimilar	0.52 Subject.Statussimilar
	0.84 Subject.Statusnew	0.85 Subject.Statusnew
	0.02 Subject. Typeplants	0.02 Subject. Typeplants
	0.02 Subject. Typeobjects	0.02 Subject. Typeobjects
	0.02 Subject.Styledali	0.02 Subject.Styledali
	0.02 Subject.Stylehundertwasser	0.02 Subject.Stylehundertwasser
	0.02 Subject Styleklimt	0.02 Subject Styleklimt
	0.01 Subject Stylemunch	0.01 Subject Stylemunch
	0.01 Subject Stylenioseso	0.01 Subject Stylenicasso
	0.02 Subject Stylenointilism	0.02 Subject Stylepointiliem
	0.08 Subject Stylenonart	0.08 Subject Styleponart
Pn1	σασμουτ.οτητοροματι	oubjeet.orgiepopart
P01		
ICC	0.21	0.21
Ν	56 Subject	56 Subject
	320 Image	320 Image
Observations	14182	14182
Marginal R2 / Conditional R2	0.091 / 0.187	0.090 / 0.186

Table 4-1: Full and null BLRMs	for the effect o	f z-scored subjective	e arousal image on res	ponse accuracy.

	full model	null model 1	null model 2
Predictors for response accuracy	Odds Ratios	Odds Ratios	Odds Ratios
Intercept	2.43 (1.59 – 3.68)	2.44 (1.60 – 3.72)	2.41 (1.59 – 3.67)
Category (F > NF)	2.12 (1.80 – 2.47)	2.10 (1.79 – 2.46)	2.08 (1.78 – 2.45)
Wanting	1.05 (1.02 – 1.07)	1.05 (1.02 – 1.07)	1.05 (1.02 – 1.07)
Image Status (similar > old)	0.66 (0.50 – 0.85)	0.65 (0.50 – 0.85)	0.65 (0.50 – 0.85)
Image Status (new > old)	5.43 (3.97 – 7.60)	5.36 (3.92 – 7.50)	5.40 (3.96 – 7.45)
Arousal	1.00 (0.87 – 1.14)	0.94 (0.87 – 1.01)	
Gender (M > F)	0.81 (0.67 – 0.96)	0.81 (0.67 – 0.98)	0.81 (0.67 – 0.97)
Age	1.00 (0.99 – 1.01)	1.00 (0.99 – 1.01)	1.00 (0.99 – 1.01)
Timepoint (FU > BL)	1.01 (0.92 – 1.11)	1.01 (0.92 – 1.11)	1.01 (0.92 – 1.11)
Intervention (Fiber > Placebo)	1.04 (0.95 – 1.13)	1.04 (0.95 – 1.14)	1.04 (0.95 – 1.14)
Category (F > NF) * Arousal	0.91 (0.77 – 1.06)		
Timepoint * Intervention	1.01 (0.89 – 1.14)	1.01 (0.89 – 1.15)	1.01 (0.89 – 1.14)
Random Effects			
5 2	3.29	3.29	3.29
^г оо	0.56 _{Image}	0.57 Image	0.57 Image
	0.13 _{Subject}	0.13 _{Subject}	0.13 _{Subject}
T ₁₁	0.07 Subject.CategoryF	0.07 Subject.CategoryF	0.07 Subject.CategoryF
	0.00 Subject.Wanting	0.00 Subject.Wanting	0.00 Subject.Wanting
	0.65 Subject.Statussimilar	0.65 Subject.Statussimilar	0.65 Subject.Statussimilar
	0.89 Subject.Statusnew	0.89 Subject.Statusnew	0.90 Subject.Statusnew
	0.00 Subject.z_Arousal	0.00 Subject.z_Arousal	0.00 Subject.z_Arousal
⁰ 01			
P01			
ICC	0.24	0.24	0.24
N	56 Subject	56 Subject	56 Subject
	629 Image	629 _{Image}	629 _{Image}
Observations	27917	27917	27917
Marginal R ² / Conditional R ²	0.080 / 0.199	0.080 / 0.199	0.079 / 0.199

Table 4-2:Full and null BLRMs for the effect of z-scored subjective valence image on response	accuracy.
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	full model	null model 1	null model 2
Predictors for response accuracy	Odds Ratios	Odds Ratios	Odds Ratios
Intercept	2.51 (1.63 – 3.81)	2.50 (1.64 – 3.75)	2.53 (1.66 – 3.85)
Category (F > NF)	2.10 (1.79 – 2.44)	2.09 (1.78 – 2.46)	2.08 (1.78 – 2.44)
Wanting	1.05 (1.02 – 1.07)	1.05 (1.02 – 1.08)	1.05 (1.02 – 1.07)
Image Status (similar > old)	0.65 (0.49 – 0.85)	0.65 (0.50 – 0.85)	0.64 (0.50 – 0.83)
Image Status (new > old)	5.39 (3.96 – 7.43)	5.41 (3.95 – 7.53)	5.29 (3.87 – 7.34)
Valence	1.05 (0.84 – 1.31)	0.92 (0.84 – 1.00)	
Gender (M > F)	0.82 (0.68 – 0.98)	0.82 (0.69 – 0.99)	0.82 (0.69 – 0.98)
Age	1.00 (0.98 – 1.01)	1.00 (0.99 – 1.01)	1.00 (0.99 – 1.01)
Timepoint (FU > BL)	1.00 (0.91 – 1.09)	1.00 (0.91 – 1.09)	1.00 (0.91 – 1.09)
Intervention (Fiber > Placebo)	1.04 (0.96 – 1.14)	1.04 (0.96 – 1.14)	1.04 (0.96 – 1.14)
Category (F > NF) * Valence	0.86 (0.67 – 1.10)		
Timepoint * Intervention	1.00 (0.88 – 1.14)	1.00 (0.88 – 1.14)	1.00 (0.88 – 1.14)
Random Effects			
σ2	3.29	3.29	3.29
т ₀₀	0.55 _{Image}	0.55 Image	0.56 Image
	0.13 _{Subject}	0.13 _{Subject}	0.13 _{Subject}
T ₁₁	0.07 Subject.CategoryF	0.07 Subject.CategoryF	0.07 Subject.CategoryF
	0.00 Subject.Wanting	0.00 Subject.Wanting	0.00 Subject.Wanting
	0.65 Subject.Statussimilar	0.65 Subject.Statussimilar	0.65 Subject.Statussimilar
	0.88 Subject.Statusnew	0.88 Subject.Statusnew	0.89 Subject.Statusnew
	0.00 Subject.z_Valence	0.00 Subject.z_Valence	0.00 Subject.z_Valence
ρ ₀₁			
ρ ₀₁			
ICC	0.24	0.24	0.24
Ν	56 Subject	56 _{Subject}	56 _{Subject}
	640 Image	640 Image	640 Image
Observations	28395	28395	28395
Marginal R ² / Conditional R ²	0.080 / 0.198	0.080 / 0.198	0.079 / 0.198

Table 4-3: Full and null BLRMs for the effect of z-scored subjective recognizability image on response accuracy.

	full model	null model 1	null model 2
Predictors for response accuracy	Odds Ratios	Odds Ratios	Odds Ratios
Intercept	2.50 (1.64 – 3.80)	2.47 (1.62 – 3.86)	2.44 (1.61 – 3.71)
Category (F > NF)	2.10 (1.79 – 2.47)	2.10 (1.80 – 2.46)	2.08 (1.78 – 2.43)
Wanting	1.05 (1.02 – 1.07)	1.05 (1.02 – 1.07)	1.05 (1.02 – 1.07)
Image Status (similar > old)	0.65 (0.51 – 0.85)	0.65 (0.50 – 0.84)	0.65 (0.50 – 0.85)
Image Status (new > old)	5.33 (3.91 – 7.43)	5.33 (3.84 – 7.36)	5.39 (3.94 – 7.55)
Recognizability	0.91 (0.76 – 1.08)	0.90 (0.82 – 0.99)	
Gender (M > F)	0.82 (0.69 – 0.99)	0.83 (0.69 – 0.98)	0.83 (0.69 – 0.99)
Age	1.00 (0.99 – 1.01)	1.00 (0.99 – 1.01)	1.00 (0.99 – 1.01)
Timepoint (FU > BL)	1.00 (0.91 – 1.09)	1.00 (0.91 – 1.09)	1.00 (0.91 – 1.09)
Intervention (Fiber > Placebo)	1.04 (0.96 – 1.14)	1.04 (0.95 – 1.14)	1.04 (0.96 – 1.14)
Category (F > NF) * Recognizability	0.99 (0.81 – 1.22)		
Timepoint * Intervention	1.01 (0.88 – 1.14)	1.01 (0.89 – 1.14)	1.00 (0.89 – 1.14)
Random Effects			
σ2	3.29	3.29	3.29
TOO	0.55 Image	0.55 Image	0.56 Image
	0.13 Subject	0.13 Subject	0.13 Subject
T ₁₁	0.07 Subject CategoryF	0.07 Subject CategoryF	0.07 Subject CategoryF
	0.00 Subject Wanting	0.00 Subject Wanting	0.00 Subject Wanting
	0.65 Subject Statussimilar	0.65 Subject Statussimilar	0.65 Subject Statussimilar
	0.88 Subject Statusnew	0.89 Subject Statusnew	0.88 Subject Statusnew
	0.00 Subject.z Recognizability	0.00 Subject.z Recognizability	0.00 Subject.z Recognizability
ρ ₀₁			
P01			
ICC	0.24	0.24	0.24
Ν	56 _{Subject}	56 _{Subject}	56 _{Subject}
	640 Image	640 Image	640 Image
Observations	28395	28395	28395
Marginal R ² / Conditional R ²	0.080 / 0.198	0.080 / 0.198	0.079 / 0.198



Figure 5-1: Memory performance depending on subjective hunger. Actual and predicted A) target recognition d' and B) lure discrimination LDI depending on subjective hunger level. Single subjects are colour-coded. Points show the actual data and lines with 95%-CI depict predictions based on full model. *Neither d' nor LDI were affected by the subjective hunger level.* The estimates of the main effect of the null model (Table 1, Eq. 9) suggested that the subjective hunger level did not affect memory performance in general.

	full model	null model 1	null model 2
Predictors for d'	Estimates	Estimates	Estimates
Intercept	1.31 (0.75 – 1.86)	1.32 (0.79 – 1.87)	1.28 (0.78 – 1.78)
Category (F > NF)	0.80 (0.28 – 1.34)	0.77 (0.26 – 1.23)	0.77 (0.21 – 1.27)
Subj Hunger Level	-0.01 (-0.05 – 0.04)	-0.01 (-0.05 – 0.04)	
Age	-0.00 (-0.02 – 0.02)	-0.00 (-0.02 – 0.01)	-0.00 (-0.02 – 0.02)
Gender (M > F)	-0.23 (-0.44 – -0.02)	-0.23 (-0.46 – -0.01)	-0.23 (-0.45 – -0.02)
Timepoint (FU > BL)	0.01 (-0.10 – 0.13)	0.01 (-0.10 – 0.12)	0.01 (-0.11 – 0.12)
Intervention (Fiber > Placebo)	0.06 (-0.05 – 0.17)	0.06 (-0.06 – 0.17)	0.05 (-0.06 - 0.16)
Category (F > NF) * Subj Hunger Level	-0.00 (-0.06 – 0.05)		
Timepoint * Intervention	-0.04 (-0.20 – 0.12)	-0.04 (-0.20 – 0.12)	-0.03 (-0.19 – 0.12)
Random Effects			
σ2	0.14	0.14	0.14
т _{оо}	0.04 _{Set}	0.04 _{Set}	0.04 _{Set}
	0.09 _{Subject}	0.09 _{Subject}	0.09 _{Subject}
T ₁₁	0.24 Set.CategoryF	0.26 Set.CategoryF	0.31 Set.CategoryF
	0.04 Subject.CategoryF	0.03 Subject.CategoryF	0.03 Subject.CategoryF
P01	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , ,
ρ ₀₁			
ICC	0.66	0.67	0.68
N	56 _{Subject}	56 _{Subject}	56 _{Subject}
	4 Set	4 Set	4 Set
Observations	360	360	360
Marginal B2 / Conditional B2	0.382 / 0.696	0.377 / 0.696	0 378 / 0 697

Table 5-1: Full and null BLRMs for the effect of subjective hunger level on d'.

Table 5-2: Full and null BLRMs for the effect of subjective hunger level on LDI.

	full model	null model 1	null model 2
Predictors for LDI	Estimates	Estimates	Estimates
Intercept	1.04 (0.47 – 1.62)	1.05 (0.51 – 1.62)	1.04 (0.53 – 1.57)
Category (F > NF)	0.85 (0.22 – 1.41)	0.85 (0.34 – 1.38)	0.85 (0.29 – 1.48)
Subj Hunger Level	-0.00 (-0.05 – 0.05)	-0.00 (-0.05 – 0.05)	
Age	-0.00 (-0.02 – 0.01)	-0.01 (-0.02 – 0.01)	-0.01 (-0.02 – 0.01)
Gender (M > F)	-0.27 (-0.50 – -0.04)	-0.27 (-0.50 – -0.04)	-0.27 (-0.49 – -0.04)
Timepoint (FU > BL)	0.05 (-0.07 – 0.19)	0.06 (-0.07 – 0.18)	0.05 (-0.08 – 0.18)
Intervention (Fiber > Placebo)	0.09 (-0.04 – 0.21)	0.08 (-0.04 – 0.21)	0.08 (-0.04 – 0.21)
Category (F > NF) * Subj Hunger Level	0.00 (-0.06 – 0.07)		
Timepoint * Intervention	-0.08 (-0.26 – 0.10)	-0.08 (-0.26 – 0.10)	-0.08 (-0.25 – 0.10)
Random Effects			
σ2	0.17	0.17	0.17
т _{оо}	0.04 _{Set}	0.04 _{Set}	0.04 _{Set}
	0.10 _{Subject}	0.10 _{Subject}	0.10 Subject
T ₁₁	0.30 Set.CategoryF	0.28 Set.CategoryF	0.34 Set.CategoryF
	0.05 Subject.CategoryF	0.05 Subject.CategoryF	0.05 Subject.CategoryF
ρ ₀₁			
ρ ₀₁			
ICC	0.63	0.62	0.65
Ν	56 _{Subject}	56 _{Subject}	56 _{Subject}
	4 Set	4 Set	4 Set
Observations	360	360	360
Marginal R ² / Conditional R ²	0.398 / 0.677	0.402 / 0.677	0.396 / 0.676



Figure 5-2: Model estimates of the full model for the effect of subjective hunger level and covariates (Table 1, Eq. 8) on d' and LDI. Values indicate the positive (blue) or negative (red) mean estimate of the posterior distribution and whiskers represent the 50% (thick, inner) and 95% (thin, outer) CI. The subjective hunger level did not differently affect image categories nor did it affect memory performance. Only the effect of image category (F>NF) and Gender (M<F) on memory indices seemed to be evident as its 95% CI did not include Zero.



Figure 5-3: Memory performance depending on subjective hunger level per MRI task. Actual and predicted A+B) target recognition d' and C+D) lure discrimination LDI depending on subjective hunger level during A+C) Wanting task and B+D) Memory task. Single subjects are colour-coded. Points show the actual data and lines with 95%-CI depict predictions based on null model 1 (Table 1, Eq. 8). Neither d' nor LDI were affected by the subjective hunger level during any of the tasks.



Figure 5-4: Actual and predicted A) target recognition d' and B) lure discrimination LDI depending on ghrelin serum levels per image category. Points show the actual data and lines with 95% CI depict predictions based on full model. Neither d' nor LDI were affected by ghrelin serum levels. The estimates of the interaction of the full model (cf. Table 1, Eq. 8) indicated that the image categories were not differently influenced by ghrelin levels and the estimates of the main effect suggested that ghrelin serum levels did not affect memory performance indices independent of category. For better visualization, the outlier 1274 pmol/l is not displayed.

Table 5-3: Full and null BLRMs for the effect of serum ghrelin levels on d'.

Predictors for d'	full model Estimates	null model 1 Estimates	null model 2 Estimates	null model 3 Estimates	null model 4 Estimates
Intercept	1.41 (0.89 – 1.95)	1.41 (0.88 – 1.93)	1.38 (0.85 – 1.91)	1.37 (0.84 – 1.87)	1.36 (0.85 – 1.87)
Category (F > NF)	0.63 (-0.02 – 1.11)	0.63 (0.13 – 1.16)	0.64 (0.09 – 1.26)	0.66 (0.17 – 1.16)	0.66 (0.10 – 1.25)
Wanting Category (neutral > unwanted)	0.01 (-0.16 – 0.18)	0.01 (-0.16 – 0.18)	0.04 (-0.07 – 0.15)	0.04 (-0.07 – 0.15)	0.04 (-0.07 - 0.15)
Wanting Category (wanted > unwanted)	-0.16 (-0.34 – 0.02)	-0.16 (-0.34 – 0.02)	-0.11 (-0.23 – 0.02)	-0.11 (-0.23 – 0.01)	-0.10 (-0.23 – 0.01)
Serum ghrelin levels	-0.00 (-0.00 – 0.00)	-0.00 (-0.00 – 0.00)	-0.00 (-0.00 – 0.00)	-0.00 (-0.00 – 0.00)	
Gender (M > F)	-0.30 (-0.53 – -0.08)	-0.30 (-0.54 – -0.07)	-0.30 (-0.51 – -0.08)	-0.29 (-0.52 – -0.07)	-0.29 (-0.51 – -0.07)
Age	-0.01 (-0.02 - 0.01)	-0.01 (-0.02 - 0.01)	-0.01 (-0.02 – 0.01)	-0.00 (-0.02 - 0.01)	-0.01 (-0.02 – 0.01)
Fimepoint (FU > 3L)	0.06 (-0.05 – 0.18)				
ntervention Fiber > Placebo)	0.02 (-0.09 - 0.14)	0.02 (-0.09 - 0.14)	0.03 (-0.09 - 0.14)	0.02 (-0.09 - 0.14)	0.02 (-0.08 - 0.14)
Category (F > NF) * Serum ghrelin levels	0.00 (-0.00 - 0.00)	0.00 (-0.00 - 0.00)	0.00 (-0.00 - 0.00)		
Wanting Category (neutral > unwanted) * Serum ghrelin levels	0.00 (-0.00 – 0.00)	0.00 (-0.00 – 0.00)			
Wanting Category (wanted > unwanted)* Serum ghrelin levels	0.00 (-0.00 - 0.00)	0.00 (-0.00 – 0.00)			
Timepoint * Intervention	-0.02 (-0.19 - 0.14)	-0.02 (-0.18 – 0.14)	-0.03 (-0.19 – 0.14)	-0.02 (-0.19 - 0.14)	-0.02 (-0.19 – 0.14)
Category (F > NF) * Wanting Category (neutral > unwanted) * Serum ghrelin levels	-0.00 (-0.00 – 0.00)				
Category (F > NF) * Wanting Category (wanted > unwanted)* Serum ghrelin levels	-0.00 (-0.00 - 0.00)				
andom Effects	0.40	0.39	0.39	0.39	0.39
00	0.03 _{Set}	0.03 _{Set}	0.03 _{Set}	0.02 Set	0.03 _{Set}
	0.10 Subject	0.10 Subject	0.09 Subject	0.09 Subject	0.09 Subject
11	0.33 Set.CategoryF	0.30 Set.CategoryF	0.44 Set.CategoryF	0.27 Set.CategoryF	0.33 Set.CategoryF
	0.03 Subject.CategoryF				
	0.04 Subject.Wanting_catneutral	0.04 Subject.Wanting_catneutral	0.04 Subject.Wanting_catneutral	0.04 Subject.Wanting_catneutral	0.04 Subject.Wanting_catneutral
	0.07 Subject.Wanting_catwanted 0.00 Subject.serum_GHRL				
01					
01					
CC	0.47	0.46	0.51	0.44	0.47
4	54 Subject	54 Subject	D4 Subject	54 Subject	54 Subject
N	4 Set				
Joservations Marginal R2 / Conditional R2	986 0.212 / 0.416	986 0.210 / 0.416	986 0.210 / 0.415	986 0.208 / 0.414	986 0.208 / 0.414

Table 5-4: Full and null BLRMs for the effect of serum ghrelin levels on LDI.

	full model	null model 1	null model 2	null model 3	null model 4
Predictors for LDI	Estimates	Estimates	Estimates	Estimates	Estimates
Intercept	1.21 (0.69 – 1.75)	1.20 (0.67 – 1.74)	1.21 (0.68 – 1.75)	1.19 (0.66 – 1.71)	1.15 (0.63 – 1.65)
Category (F > NF)	0.70 (0.11 – 1.26)	0.70 (0.14 - 1.28)	0.69 (0.10 - 1.20)	0.72 (0.17 – 1.26)	0.72 (0.19 – 1.23)
Wanting Category (neutral > unwanted)	0.04 (-0.13 - 0.21)	0.04 (-0.14 - 0.21)	0.04 (-0.07 - 0.16)	0.04 (-0.07 - 0.15)	0.04 (-0.07 - 0.15)
Wanting Category (wanted > unwanted)	-0.02 (-0.21 - 0.18)	-0.02 (-0.21 - 0.18)	-0.02 (-0.16 – 0.11)	-0.02 (-0.15 - 0.10)	-0.02 (-0.15 – 0.11)
Serum ghrelin levels	-0.00 (-0.00 – 0.00)	-0.00 (-0.00 – 0.00)	-0.00 (-0.00 – 0.00)	-0.00 (-0.00 – 0.00)	
Gender (M > F)	-0.33 (-0.56 – -0.10)	-0.33 (-0.56 – -0.09)	-0.33 (-0.56 – -0.10)	-0.33 (-0.56 – -0.10)	-0.31 (-0.54 – -0.09)
Age	-0.01 (-0.03 – 0.01)	-0.01 (-0.03 – 0.01)	-0.01 (-0.03 – 0.01)	-0.01 (-0.02 – 0.01)	-0.01 (-0.03 – 0.01)
Timepoint (FU > BL)	0.06 (-0.07 – 0.19)	0.06 (-0.07 – 0.19)	0.06 (-0.07 – 0.19)	0.06 (-0.07 – 0.18)	0.06 (-0.06 – 0.19)
Intervention (Fiber > Placebo)	0.04 (-0.08 - 0.16)	0.04 (-0.08 - 0.17)	0.04 (-0.08 - 0.17)	0.04 (-0.08 - 0.17)	0.05 (-0.07 - 0.17)
Category (F > NF) * Serum ghrelin levels	0.00 (-0.00 - 0.00)	0.00 (-0.00 - 0.00)	0.00 (-0.00 - 0.00)		
Wanting Category (neutral > unwanted) * Serum ghrelin levels	0.00 (-0.00 - 0.00)	0.00 (-0.00 - 0.00)			
Wanting Category (wanted > unwanted)* Serum ghrelin levels	0.00 (-0.00 - 0.00)	-0.00 (-0.00 – 0.00)			
Timepoint * Intervention	-0.01 (-0.19 – 0.17)	-0.00 (-0.19 – 0.18)	-0.01 (-0.19 – 0.17)	-0.01 (-0.18 – 0.17)	-0.00 (-0.18 – 0.17)
Category (F > NF) * Wanting Category (neutral > unwanted) * Serum ghrelin levels	-0.00 (-0.00 – 0.00)				
Category (F > NF) * Wanting Category (wanted > unwanted)* Serum ghrelin levels	-0.00 (-0.00 - 0.00)				
Random Effects	0.47	0.47	0.46	0.46	0.46
T ₀₀	0.02 _{Set}	0.02 _{Set}	0.02 _{Set}	0.02 _{Set}	0.03 _{Set}
Τ ₁₁	v.11 Subject 0.35 Set.CategoryF 0.03 Subject.CategoryF 0.03 Subject.Wanting_catneutral 0.08 Subject.Wanting_catwanted 0.00 Subject.serum_GHRL	0.11 Subject 0.31 Set.CategoryF 0.03 Subject.CategoryF 0.03 Subject.Wanting_catneutral 0.08 Subject.Wanting_catwanted 0.00 Subject.serum_GHRL	0.11 Subject 0.32 Set.CategoryF 0.03 Subject.CategoryF 0.03 Subject.Wanting_catneutral 0.08 Subject.Wanting_catwanted 0.00 Subject.serum_GHRL	v.11 Subject 0.31 Set.CategoryF 0.03 Subject.CategoryF 0.03 Subject.Wanting_catneutral 0.08 Subject.Wanting_catwanted 0.00 Subject.serum_GHRL	0.10 Subject 0.33 Set.CategoryF 0.03 Subject.CategoryF 0.03 Subject.Wanting_catneutral 0.08 Subject.Wanting_catwanted 0.00 Subject.serum_GHRL
ρ ₀₁					
P01	0.40	0.40	0.40	a	0.40
ICC N	0.43 54 o. tu	0.42 54 o. t. t.	0.42 54 p. t. t.	0.42 54 p. t. t.	0.43 54 octors
	 ✓ Subject 4 Set 	4 Set	4 Set	 ✓ Subject 4 Set 	4 Set
Observations	975	975	975	975	975
Marginal R ² / Conditional R ²	0.220 / 0.406	0.218 / 0.405	0.217 / 0.404	0.217 / 0.403	0.216 / 0.403



Figure 6-1: Predicted A) target recognition d' and B) lure discrimination LDI depending on wanting category. Predictions based on full model (Table 1, Eq. 11) with 95% CI. Neither d' nor LDI were predicted by wanting category. The estimates of the full model for the interaction indicated that the image categories were not differently influenced by wanting category. The estimates for the main effect suggested that the wanting category did not affect memory *performance indices in general.*



Figure 6-2: Model estimates of the full model (Table 1, Eq. 11) for the effect of wanting category and covariates on d' and LDI. Values indicate the positive (blue) or negative (red) mean estimate of the posterior distribution and whiskers represent the 50% (thick, inner) and 95% (thin, outer) CIs. Neither d' nor LDI are evidently different between wanting categories. Only the effect of image category (F>NF) and Gender (M<F) on memory performance measures seemed to be evident as their 95% CI did not include Zero.

Table 6-1: Full and null BLRMs for the effect of wanting categories on d'.

	full model	null model 1	null model 2
Predictors for d'	Estimates	Estimates	Estimates
Intercept	1.29 (0.79 – 1.77)	1.31 (0.79 – 1.78)	1.29 (0.81 – 1.79)
Category (F > NF)	0.73 (0.27 – 1.33)	0.68 (0.09 – 1.18)	0.68 (0.19 – 1.17)
Wanting Category (neutral > unwanted)	0.09 (-0.05 – 0.23)	0.04 (-0.07 - 0.14)	
Wanting Category (wanted > unwanted)	-0.08 (-0.23 - 0.07)	-0.10 (-0.22 - 0.02)	
Age	-0.00 (-0.02 - 0.01)	-0.00 (-0.02 - 0.01)	-0.00 (-0.02 - 0.01)
Gender (M > F)	-0.28 (-0.50 – -0.07)	-0.29 (-0.49 – -0.07)	-0.28 (-0.50 – -0.07)
Timepoint (FU > BL)	0.07 (-0.04 - 0.18)	0.07 (-0.05 – 0.18)	0.07 (-0.05 – 0.18)
Intervention (Fiber > Placebo)	0.04 (-0.07 - 0.14)	0.03 (-0.07 - 0.14)	0.03 (-0.08 - 0.14)
Category (F > NF) * Wanting Category (neutral > unwanted)	-0.11 (-0.30 – 0.07)		
Category (F > NF) * Wanting Category (wanted > unwanted)	-0.04 (-0.25 – 0.17)		
Timepoint * Intervention	-0.03 (-0.18 – 0.13)	-0.03 (-0.19 – 0.13)	-0.03 (-0.19 – 0.13)
Random Effects			
σ2	0.39	0.39	0.39
т _{оо}	0.02 _{Set}	0.02 _{Set}	0.02 _{Set}
	0.09 _{Subject}	0.09 _{Subject}	0.09 _{Subject}
T ₁₁	0.29 Set.CategoryF	0.32 Set.CategoryF	0.27 Set.CategoryF
	0.03 Subject.CategoryF	0.02 Subject.CategoryF	0.02 Subject.CategoryF
	0.04 Subject.Wanting catneutral	0.04 Subject.Wanting catneutral	0.05 Subject.Wanting catneutral
	0.06 Subject.Wanting_catwanted	0.06 Subject.Wanting_catwanted	0.06 Subject.Wanting_catwanted
	0.02 Subject.CategoryF:Wanting_catneutral	0.02 Subject.CategoryF:Wanting_catneutral	0.02 Subject.CategoryF:Wanting_catneutral
	0.11 Subject CategoryF:Wanting, catwanted	0.10 Subject CategoryE [·] Wanting, catwanted	0.10 Subject CategoryF:Wanting, catwanted
P01			
P01			
ICC	0.45	0.45	0.39
Ν	56 Subject	56 Subject	56 Subject
	4 Set	4 Set	4 Set
Observations	1046	1046	1046
Marginal R ² / Conditional R ²	0.216 / 0.430	0.213 / 0.428	0.206 / 0.427

Table 6-2: Full and null BLRMs for the effect of wanting categories on LDI.

	full model	null model 1	null model 2
Predictors for LDI	Estimates	Estimates	Estimates
Intercept	1.07 (0.57 – 1.57)	1.11 (0.61 – 1.60)	1.12 (0.63 – 1.60)
Category (F > NF)	0.81 (0.28 – 1.41)	0.74 (0.20 – 1.29)	0.74 (0.19 – 1.26)
Wanting Category (neutral > unwanted)	0.10 (-0.04 - 0.25)	0.04 (-0.07 - 0.15)	
Wanting Category (wanted > unwanted)	0.03 (-0.14 – 0.21)	-0.01 (-0.14 – 0.12)	
Age	-0.01 (-0.03 – 0.01)	-0.01 (-0.02 - 0.01)	-0.01 (-0.02 - 0.01)
Gender (M > F)	-0.30 (-0.51 – -0.09)	-0.31 (-0.52 – -0.09)	-0.30 (-0.52 – -0.09)
Timepoint (FU > BL)	0.06 (-0.06 – 0.19)	0.07 (-0.05 – 0.19)	0.07 (-0.06 – 0.19)
Intervention (Fiber > Placebo)	0.05 (-0.06 – 0.16)	0.05 (-0.06 – 0.17)	0.05 (-0.07 - 0.18)
Category (F > NF) * Wanting Category (neutral > unwanted)	-0.13 (-0.33 – 0.07)		
Category (F > NF) * Wanting Category (wanted > unwanted)	-0.08 (-0.31 – 0.14)		
Timepoint * Intervention	-0.00 (-0.18 – 0.16)	-0.01 (-0.18 – 0.16)	-0.01 (-0.18 – 0.17)
Random Effects			
σ2	0.45	0.45	0.45
т _{оо}	0.03 _{Set}	0.02 _{Set}	0.03 _{Set}
	0.10 _{Subject}	0.10 _{Subject}	0.10 _{Subject}
T ₁₁	0.31 Set.CategoryF	0.32 Set.CategoryF	0.31 Set.CategoryF
	0.03 Subject.CategoryF	0.03 Subject.CategoryF	0.03 Subject.CategoryF
	0.03 Subject.Wanting_catneutral	0.03 Subject.Wanting_catneutral	0.03 Subject.Wanting_catneutral
	0.13 Subject.Wanting_catwanted	0.13 Subject.Wanting_catwanted	0.12 Subject.Wanting_catwanted
	0.02 Subject.CategoryF:Wanting_catneutral	0.02 Subject.CategoryF:Wanting_catneutral	0.02 Subject.CategoryF:Wanting_catneutral
	0.15 Subject CategoryE:Wanting, catwanted	0.14 Subject CategoryE:Wanting, catwanted	0.14 Subject CategoryE:Wanting, catwanted
P01	oubjeet.outegoryf .wanting_outwanted	oubjeet.outegoryn .wanning_outwanteu	oubjeet.outegoryn .wanning_outwanted
P01			
ICC	0.43	0.43	0.38
Ν	56 _{Subject}	56 Subject	56 Subject
	4 Set	4 Set	4 Set
Observations	1035	1035	1035
Marginal R2 / Conditional R2	0.222 / 0.428	0.220 / 0.426	0.218 / 0.424



Figure 7-1: Odds ratios for the effect of single item wanting, image category and covariates on response accuracy: A) full model (Table 1, Eq. 13), B) null model 1 (Table 1, Eq. 14). Values indicate the positive (blue) or negative (red) median odds ratio (exponentiated regression coefficients) and whiskers represent the 50% (thick, inner) and 95% (thin, outer) CI. A) The interaction of wanting with image category shows a tendency that the response accuracy for NF (art) images might be slightly more enhanced by wanting but B) shows that, in general, single item wanting seemed to be evidently enhancing response accuracy as its 95% *CI did not include Zero.*

	full model	null model 1	null model 2
Predictors for response accuracy	Odds Ratios	Odds Ratios	Odds Ratios
Intercept	3.75 (2.15 – 6.42)	3.96 (2.25 – 6.83)	4.44 (2.62 – 7.64)
Category (F > NF)	2.01 (1.57 – 2.55)	1.75 (1.43 – 2.15)	1.82 (1.48 – 2.21)
Wanting	1.07 (1.04 – 1.11)	1.05 (1.02 – 1.07)	
Image Status (similar > old)	0.64 (0.49 – 0.82)	0.64 (0.49 – 0.84)	0.62 (0.47 – 0.81)
Image Status (new > old)	5.37 (3.90 – 7.34)	5.39 (3.94 – 7.49)	5.18 (3.73 – 7.28)
normed Complexity	0.35 (0.16 – 0.83)	0.35 (0.15 – 0.82)	0.34 (0.15 – 0.78)
Gender $(M > F)$	0.82 (0.69 – 0.97)	0.82 (0.68 – 0.98)	0.84 (0.70 – 1.00)
Age	1.00 (0.99 – 1.01)	1.00 (0.99 – 1.01)	1.00 (0.99 – 1.01)
Timepoint (FU > BL)	1.00 (0.91 – 1.09)	1.00 (0.91 – 1.09)	0.99 (0.91 – 1.09)
Intervention (Fiber > Placebo)	1.04 (0.95 – 1.14)	1.04 (0.96 – 1.14)	1.04 (0.96 – 1.14)
Wanting * Category (F > NF)	0.96 (0.92 – 1.00)		
Timepoint * Intervention	1.01 (0.89 – 1.14)	1.00 (0.89 – 1.14)	1.00 (0.88 – 1.14)
Random Effects			
σ2	3.29	3.29	3.29
т _{оо}	0.55 _{Image}	0.55 _{Image}	0.55 Image
	0.13 _{Subject}	0.13 _{Subject}	0.14 Subject
T ₁₁	0.07 Subject.CategoryF	0.07 Subject.CategoryF	0.07 Subject.CategoryF
	0.00 Subject.Wanting	0.00 Subject.Wanting	0.00 Subject.Wanting
	0.65 Subject.Statussimilar	0.66 Subject.Statussimilar	0.66 Subject.Statussimilar
	0.89 Subject.Statusnew	0.89 Subject.Statusnew	0.89 Subject.Statusnew
ρ ₀₁			
ρ ₀₁			
ICC	0.24	0.24	0.23
N	56 Subject	56 _{Subject}	56 _{Subject}
	640 Image	640 Image	640 Image
Observations	28395	28395	28395
Marginal R2 / Conditional R2	0.081 / 0.198	0.080 / 0.198	0.081 / 0.197

Table 7-1: Full and null BLRMs for the effect of single image wanting ratings on response accuracy.

Table 7-2: Full BLRM	for the effe	ect of foo	d wanting	ratings on res	ponse accuracy	y accounted	for normed con	nplexity	y.
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	full model
Predictors for response accuracy	Odds Ratios
Intercept	11.07 (5.75 – 21.93)
Wanting	1.03 (1.00 – 1.07)
Image Status (similar > old)	0.79 (0.54 – 1.15)
Image Status (new > old)	6.06 (3.98 – 9.67)
Calorie Quartile (cal2 > cal1)	1.09 (0.80 – 1.49)
Calorie Quartile (cal3 > cal1)	1.27 (0.95 – 1.73)
Calorie Quartile (cal4 > cal1)	1.37 (1.01 – 1.91)
Normed Complexity	0.13 (0.03 – 0.51)
Gender (M > F)	0.66 (0.52 – 0.84)
Age	0.99 (0.97 – 1.01)
Timepoint (FU > BL)	1.03 (0.89 – 1.18)
Intervention (Fiber > Placebo)	1.12 (0.98 – 1.28)
Timepoint * Intervention	0.94 (0.77 – 1.14)
Random Effects	
σ2	3.29
T _{00 Image}	0.70
T00 Subject	0.31
T11 Subject.Wanting	0.00
T11 Subject.Statussimilar	1.18
T ₁₁ Subject.Statusnew	1.09
T ₁₁ Subject.Typecal2	0.10
T11 Subject.Typecal3	0.09
T11 Subject.Typecal4	0.04
T11 Subject.complexity_norm	0.49
P01	
ρ ₀₁	
ICC	0.30
N Subject	57
N Image	320
Observations	14293
Marginal R ² / Conditional R ²	0.043 / 0.205

Table 7-3: Full BLRM for the effect of art wanting ratings on response accuracy accounted for normed complexity.

	full model
Predictors for response accuracy	Odds Ratios
Intercept	6.22 (2.44 – 16.28)
Wanting	1.08 (1.04 – 1.11)
Image Status (similar > old)	0.55 (0.42 – 0.72)
Image Status (new > old)	5.07 (3.67 – 7.23)
Type (plants > animals)	0.81 (0.59 – 1.10)
Type (objects > animals)	0.96 (0.75 – 1.22)
Style (Dalà > Azulejos)	0.58 (0.37 – 0.90)
Style (Hundertwasser > Azulejos)	0.59 (0.40 – 0.87)
Style (Klimt > Azulejos)	0.89 (0.62 – 1.24)
Style (Munch > Azulejos)	0.72 (0.46 – 1.09)
Style (Picasso > Azulejos)	0.76 (0.50 – 1.09)
Style (Pointilism > Azulejos)	0.77 (0.53 – 1.10)
Style (popart > Azulejos)	0.74 (0.50 – 1.07)
normed Complexity	0.23 (0.05 – 1.09)
Gender $(M > F)$	0.88 (0.73 – 1.06)
Age	1.00 (0.98 – 1.01)
Timepoint (FU > BL)	0.99 (0.88 – 1.12)
Intervention (Fiber > Placebo)	1.01 (0.91 – 1.14)
Timepoint * Intervention	1.03 (0.87 – 1.21)
Random Effects	
σ2	3.29
¹ 00 Image	0.45
00 Subject	0.03
¹ 11 Subject.Wanting	0.00
T11 Subject.Statussimilar	0.53
T11 Subject.Statusnew	0.83
T11 Subject.Typeplants	0.02
T11 Subject.Typeobjects	0.02
T11 Subject.Styledali	0.02
T11 Subject.Stylehundertwasser	0.02
T11 Subject.Styleklimt	0.03
T11 Subject Stylemunch	0.01
T11 Subject Stylepieses	0.01
Transition of the second secon	0.02
11 Subject.Stylepointilism	0.02
11 Subject.Stylepopart	0.00
¹ 11 Subject.complexity_norm	0.30
Ρ01	
ρ ₀₁	
ICC	0.21
N Subject	57
N Image	320
Observations	14262
Marginal R ² / Conditional R ²	0.091 / 0.187



Figure 8-1: Predicted response accuracy for low, medium and high wanting ratings separately. Predictions based on the full model (Table 1, Eq. 17). Mean predictions and their 95% CI are depicted. The interaction of wanting with status (similar>old) suggested that discrimination accuracy of similar images was not moderated by wanting ratings.



Figure 8-2: Odds ratios of the full model for the effect of wanting rating, images status (new, old, similar), image category (F, NF) and covariates on response accuracy considering. Values indicate the positive (blue) or negative (red) median odds ratio(exponentiated regression coefficients) and whiskers represent the 50% (thick, inner) and 95% (thin, outer) CI. Similar images are evidently worse discriminated among art compared to food images and discrimination performance of similar images is not moderated by wanting as the interactions' 95% CI did not include Zero. Memory accuracy is highest for new and lowest for similar images.

Predictors for response accuracv	full model Odds Ratios	null model 1 Odds Ratios	null model 2 Odds Ratios	null model 3 Odds Ratios
Intercept	3.64 (2.10 – 6.37)	3.25 (1.89 – 5.72)	3.75 (2.15 – 6.42)	3.96 (2.25 – 6.83)
Category (F > NF)	1.63 (1.19 – 2.20)	1.99 (1.55 – 2.53)	2.01 (1.57 – 2.55)	1.75 (1.43 – 2.15)
Wanting	1.11 (1.07 – 1.15)	1.11 (1.07 – 1.15)	1.07 (1.04 – 1.11)	1.05 (1.02 – 1.07)
Image Status (similar > old)	0.71 (0.52 – 0.99)	0.85 (0.64 – 1.13)	0.64 (0.49 – 0.82)	0.64 (0.49 – 0.84)
Image Status (new > old)	5.26 (3.44 – 7.95)	5.44 (3.78 – 8.01)	5.37 (3.90 – 7.34)	5.39 (3.94 – 7.49)
normed Complexity	0.33 (0.15 – 0.75)	0.37 (0.16 – 0.85)	0.35 (0.16 – 0.83)	0.35 (0.15 – 0.82)
Gender (M > F)	0.82 (0.69 – 0.98)	0.82 (0.69 – 0.98)	0.82 (0.69 – 0.97)	0.82 (0.68 – 0.98)
Age	1.00 (0.99 – 1.01)	1.00 (0.99 – 1.01)	1.00 (0.99 – 1.01)	1.00 (0.99 – 1.01)
Timepoint (FU > BL)	0.99 (0.91 – 1.09)	1.00 (0.91 – 1.09)	1.00 (0.91 – 1.09)	1.00 (0.91 – 1.09)
Intervention (Fiber > Placebo)	1.04 (0.96 – 1.14)	1.04 (0.95 – 1.14)	1.04 (0.95 – 1.14)	1.04 (0.96 – 1.14)
Wanting * Category (F > NF)	0.97 (0.93 – 1.01)	0.97 (0.93 – 1.01)	0.96 (0.92 – 1.00)	
Wanting * Image Status (similar > old)	0.91 (0.87 – 0.95)	0.92 (0.88 – 0.96)		
Wanting * Image Status (new > old)	1.00 (0.93 – 1.07)	1.00 (0.93 – 1.07)		
Category (F > NF) * Image Status (similar > old)	1.52 (1.13 – 2.05)			
Category (F > NF) * Image Status (new > old)	1.07 (0.74 – 1.57)			
Timepoint * Intervention	1.01 (0.88 – 1.14)	1.01 (0.89 – 1.14)	1.01 (0.89 – 1.14)	1.00 (0.89 – 1.14)
andom Effects				
σ2	3.29	3.29	3.29	3.29
r ₀₀	0.55 _{Image}	0.56 Image	0.55 Image	0.55 Image
	0.13 Subject	0.13 Subject	0.13 Subject	0.13 Subject
٢11	0.06 Subject.CategoryF	0.06 Subject.CategoryF	0.07 Subject.CategoryF	0.07 Subject.CategoryF
	0.00 Subject.Wanting	0.00 Subject.Wanting	0.00 Subject.Wanting	0.00 Subject.Wanting
	0.64	0.65	0.65	0.66
	Subject.Statussimilar	Subject.Statussimilar	Subject.Statussimilar	Subject.Statussimilar
_	0.89 Subject.Statusnew	0.90 Subject.Statusnew	0.89 Subject.Statusnew	0.89 Subject.Statusnew
P01				
P01	0.04	0.04	0.04	0.04
	0.24	0.24	0.24	0.24
IN	Subject	Subject	Subject	Subject
	040 Image	040 Image	040 Image	040 Image
Observations	28395	28395	28395	28395
marginal R2 / Conditional R2	0.086/0.199	0.080/0.198	0.081/0.198	0.080/0.198

 Table 8-1: Full and null BLRMs for the effect of single image wanting ratings of new, old and similar images respectively on response accuracy.



Figure 8-3: Predicted response accuracy for old, similar and new images per image category. Predictions based on the full model (Table 1, Eq. 17). Mean predictions and their 95% CI are depicted. The interaction of category with status (similar>old) suggested that **discrimination accuracy of similar images was evidently different between food and art images.**



Figure 10-1: Memory performance depending on microstructural coherence of UF and its sub-bundle. Actual and predicted A+C) target recognition d' and B+D) lure discrimination LDI depending on normalized quantitative anisotropy (nQA) of the uncinate fasciculus (UF, A&B) and its sub-bundle (C&D). Points show the actual data and lines with 95%-CI depict predictions based on null models (Table 1, Eq. 22 & Table 2, Eq. 27). Neither d' nor LDI were affected by the microstructural coherence of the UF, reflected in nQA, or by its sub-bundle.



Figure 10-2: Model estimates of the full model (Table 1, Eq. 21) for the effect of microstructural properties of the UF and covariates on d' and LDI. Values indicate the positive (blue) or negative (red) mean estimate of the posterior distribution and whiskers represent the 50% (thick, inner) and 95% (thin, outer) CIs. The UF neither moderated effects of wanting category, subj. hunger level or image category on memory performance, nor predicted its microstructural coherence d' or LDI. Only the effect of image category (F>NF) on memory performance measures seemed to be evident as its 95% CI did not include Zero.



Figure 10-3: Model estimates of the full model (Table 2, Eq. 26) for the effect of microstructural properties of the sub-bundle of the UF and covariates on d' and LDI. Values indicate the positive (blue) or negative (red) mean estimate of the posterior distribution and whiskers represent the 50% (thick, inner) and 95% (thin, outer) CIs. The sub-bundle of the UF, which connects OFC and MTL, neither moderated effects of wanting category nor of subj. hunger level nor of image category on memory performance, nor predicted its microstructural coherence d' or LDI. Only the effect of Gender (M<F) on memory performance measures seems to be evident as its 95% CI do not include Zero.

Table 10-1-1: Full and null (1-7) BLRMs for the effect of microstructural coherence of the UF on d'.

	full model	null model 1	null model 2	null model 3	null model 4	null model 5	null model 6	nuli model 7
Predictors for d'	Estimates	Estimates	Estimates	Estimates	Estimates	Estimates	Estimates	Estimates
Intercept	1.84 (-0.50 - 4.19)	1.41 (-0.86 - 3.60)	1.22 (-0.08 – 2.53)	2.10 (-0.21 - 4.38)	1.59 (0.39 – 2.85)	1.70 (-0.51 – 3.88)	0.74 (-0.41 - 1.91)	1.13 (0.11 – 2.15)
Category (F > NF)	1.50 (0.34 – 2.71)	1.50 (0.32 - 2.73)	1.54 (0.34 - 2.72)	0.68 (0.20 - 1.17)	0.68 (0.18 - 1.22)	0.67 (0.10 - 1.14)	1.48 (0.27 - 2.69)	0.67 (0.06 - 1.16)
Subjective Hunger Level	-0.14 (-0.57 - 0.30)	-0.15 (-0.57 – 0.27)	-0.01 (-0.05 - 0.04)	-0.12 (-0.54 - 0.31)	-0.01 (-0.05 - 0.04)	-0.13 (-0.55 - 0.29)	-0.01 (-0.05 - 0.04)	-0.01 (-0.05 - 0.04)
Wanting Category (neutral > unwanted)	-1.04 (-2.24 - 0.19)	0.05 (-0.06 - 0.15)	-1.05 (-2.27 – 0.22)	-1.00 (-2.21 – 0.21)	-1.03 (-2.23 – 0.20)	0.04 (-0.07 - 0.15)	0.05 (-0.07 - 0.15)	0.04 (-0.07 - 0.15)
Wanting Category (wanted > unwanted)	-0.59 (-1.93 - 0.72)	-0.10 (-0.22 - 0.01)	-0.65 (-2.02 - 0.68)	-0.59 (-1.91 – 0.74)	-0.59 (-1.93 - 0.79)	-0.10 (-0.22 - 0.02)	-0.10 (-0.23 - 0.02)	-0.10 (-0.22 - 0.02)
nQA(UF)	-2.12 (-10.77 - 6.28)	-0.69 (-8.78 - 7.55)	0.17 (-4.10 - 4.38)	-3.11 (-11.40 - 5.20)	-1.12 (-5.02 - 2.73)	-1.65 (-9.63 - 6.42)	1.91 (-1.74 - 5.48)	0.53 (-2.51 - 3.43)
Age	-0.00 (-0.02 - 0.01)	-0.00 (-0.02 - 0.02)	-0.00 (-0.02 - 0.01)	-0.00 (-0.02 - 0.02)	-0.00 (-0.02 - 0.01)	-0.00 (-0.02 - 0.01)	-0.00 (-0.02 - 0.02)	-0.00 (-0.02 - 0.02)
Gender (M > F)	-0.27 (-0.500.04)	-0.27 (-0.500.05)	-0.27 (-0.500.04)	-0.26 (-0.490.04)	-0.26 (-0.490.04)	-0.27 (-0.490.05)	-0.27 (-0.490.04)	-0.27 (-0.490.05)
Timepoint (FU > BL)	0.07 (-0.04 - 0.18)	0.07 (-0.04 - 0.19)	0.07 (-0.05 - 0.18)	0.07 (-0.05 - 0.19)	0.07 (-0.04 - 0.18)	0.07 (-0.04 - 0.19)	0.07 (-0.04 - 0.18)	0.07 (-0.04 - 0.18)
Intervention (Fiber > Placebo)	0.04 (-0.08 - 0.15)	0.04 (-0.07 - 0.15)	0.04 (-0.07 - 0.15)	0.04 (-0.07 - 0.15)	0.04 (-0.07 - 0.15)	0.04 (-0.07 - 0.15)	0.04 (-0.07 - 0.15)	0.04 (-0.07 - 0.15)
Category (F > NF) * nQA(UF)	-3.06 (-7.04 - 0.89)	-3.02 (-7.20 – 0.95)	-3.16 (-7.23 – 0.83)				-3.01 (-6.89 - 1.05)	
Subjective Hunger Level * nQA(UF)	0.51 (-1.14 - 2.17)	0.56 (-1.04 - 2.16)		0.42 (-1.22 - 2.02)		0.48 (-1.13 - 2.11)		
Wanting Category (neutral > unwanted) * nQA(UF)	3.97 (-0.48 - 8.39)		4.05 (-0.64 - 8.55)	3.85 (-0.58 - 8.32)	3.98 (-0.57 - 8.36)			
Wanting Category (wanted > unwanted) * nQA(UF)	1.81 (-2.99 – 6.65)		2.00 (-2.91 – 7.06)	1.80 (-3.12 – 6.65)	1.80 (-3.20 – 6.69)			
Timepoint * Intervention	-0.03 (-0.19 - 0.13)	-0.03 (-0.20 - 0.13)	-0.04 (-0.20 - 0.12)	-0.04 (-0.20 - 0.13)	-0.04 (-0.21 - 0.12)	-0.04 (-0.20 - 0.13)	-0.04 (-0.20 - 0.12)	-0.04 (-0.20 - 0.12)
Random Effec	ts 0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
т ₀₀	0.03 Set	0.02 Set	0.02 Set	0.02 Set	0.02 Set	0.02 Set	0.02 Set	0.03 Set
	0.06 Subject	0.05 Subject	0.05 Subject	0.05 Subject	0.05 Subject	0.05 Subject	0.05 Subject	0.05 Subject
т ₁₁	0.29 Set.CategoryF	0.26 Set.CategoryF	0.30 Set.CategoryF	0.26 Set.CategoryF	0.27 Set.CategoryF	0.30 Set.CategoryF	0.28 Set.CategoryF	0.32 Set.CategoryF
	0.00 Subject.CategoryF 0.00	0.00 Subject.CategoryF	0.00 Subject.CategoryF	0.00 Subject.CategoryF	0.00 Subject.CategoryF 0.00 Subject.CategoryF	0.00 Subject.CategoryF 0.00 Subject Support	0.00 Subject.CategoryF 0.00 Subject Lumons many total	0.00 Subject.CategoryF
	Subject.hunger_mean_total							o oo
	Subject.Wanting_catneutral	0.03 Subject.Wanting_catneutral	0.02 Subject.Wanting_catneutral	0.02 Subject.Wanting_catneutral	0.02 Subject.Wanting_catneutral	0.03 Subject.Wanting_catneutral	0.03 Subject.Wanting_catneutral	0.03 Subject.Wanting_catneutral
	0.06 Subject.Wanting_catwanted	0.04 Subject.Wanting_catwanted	0.04 Subject.Wanting_catwanted	0.04 Subject.Wanting_catwanted	0.04 Subject.Wanting_catwanted	0.04 Subject.Wanting_catwanted	0.04 Subject.Wanting_catwanted	0.04 Subject.Wanting_catwanted
	1.06 Subject.nQA_UF_mean	0.77 Subject.nQA_UF_mean	0.77 Subject.nQA_UF_mean	0.77 Subject.nQA_UF_mean	0.83 Subject.nQA_UF_mean	0.83 Subject.nQA_UF_mean	0.71 Subject.nQA_UF_mean	0.75 Subject.nQA_UF_mean
		0.30 Subject.CategoryF:nQA_UF_mean 0.01	0.29 Subject.CategoryF:nQA_UF_mean 0.01	0.30 Subject.CategoryFriQA_UF_mean 0.01	0.28 Subject.CategoryF:nQA_UF_mean 0.01	0.28 Subject.CategoryF:nQA_UF_mean 0.01	0.31 Subject.CategoryF:nQA_UF_mean 0.01	0.28 Subject.CategoryF:nQA_UF_mean 0.01
		Subject.hunger_mean_total:nQA_UP_mean 0.30	Subject.hunger_mean_total:nQA_UF_mean 0.28	Subject.hunger_mean_total:nQA_UF_mean 0.28	Subject.hunger_mean_total:nQA_UP_mean 0.28	Subject.hunger_mean_total:nQA_UF_mean 0.29	Subject.hunger_mean_total:nQA_UP_mean 0.30	Subject.hunger_mean_total:nQA_UF_mean 0.30
		Subject.Wanting_catneutral:nQA_UF_mean 0.59	Subject.Wanting_catneutral.nQA_UF_mean 0.62	Subject.Wanting_catneutral:nQA_UF_mean 0.61	Subject.Wanting_catneutral:nQA_UF_mean 0.61	Subject.Wanting_catneutral:nQA_UF_mean 0.59	Subject.Wanting_catneutral:nQA_UF_mean 0.63	Subject.Wanting_catneutral:nQA_UF_mean 0.59
ρ ₀₁		subject.wanting_catwanted:nQA_UF_mean	subject.Wanting_catwanted:nQA_UF_mean	subject.Wanting_catwanted:nQA_UF_mean	Subject.Wanting_catwanted:nQA_UF_mean	Subject.Wanting_catwanted:nQA_UF_mean	subject.wanting_catwanted:nQA_UF_mean	subject.Wanting_catwanted:nQA_UF_mean
P01								
ICC	0.46	0.43	0.46	0.44	0.44	0.44	0.44	0.45
N	55 Subject	55 Subject	55 Subject	55 Subject	55 Subject	55 Subject	55 Subject	55 Subject
Observations	** Set 1022	* Set 1022	** Set 1022	* Set 1022	* Set 1022	* Set 1022	* Set 1022	* Set
Marginal R2 / Conditional R2	0.217 / 0.423	0.213 / 0.430	0.217 / 0.431	0.215 / 0.430	0.215 / 0.429	0.208 / 0.428	0.210 / 0.429	0.210 / 0.428

Table 10-1-2: Null (7-14) BLRMs for the effect of microstructural coherence of the UF on d'.

	null model 7	null model 8	null model 9	pull model 10	nuli model 11	null model 12	null model 13	null model 14
Predictors for	Estimates							
d'	1.12	1.20	1.11	1.09	1.10	1.07	1.05	1.00
intercept	(0.11 - 2.15)	(0.73 - 1.82)	(0.08 - 2.12)	(0.11 - 2.11)	(0.08 - 2.10)	(0.71 - 1.83)	(0.75 - 1.75)	(0.73 - 1.73)
Category (F > NF)	0.67 (0.06 - 1.16)	0.68 (0.14 - 1.15)	0.68 (0.18 - 1.32)	0.67 (0.16 - 1.15)	0.67 (0.16 - 1.26)	0.67 (0.14 - 1.25)	0.67 (0.17 - 1.20)	0.67 (0.16 - 1.17)
Subjective Hunger Level	-0.01 (-0.05 - 0.04)	-0.01 (-0.05 - 0.04)	-0.01 (-0.05 - 0.04)			-0.01 (-0.05 - 0.04)		
Wanting Category (neutral > unwanted)	0.04 (-0.07 - 0.15)	0.04 (-0.07 - 0.15)		0.04 (-0.07 - 0.15)			0.04 (-0.06 - 0.15)	
Wanting Category (wanted > unwanted)	-0.10 (-0.22 - 0.02)	-0.10 (-0.22 - 0.02)		-0.10 (-0.23 - 0.02)			-0.10 (-0.22 - 0.01)	
nQA(UF)	0.53 (-2.51 - 3.43)		0.53 (-2.30 - 3.46)	0.56 (-2.45 - 3.56)	0.50 (-2.52 - 3.49)			
Age	-0.00 (-0.02 - 0.02)	-0.00 (-0.02 - 0.01)	-0.00 (-0.02 - 0.01)	-0.00 (-0.02 - 0.01)	-0.00 (-0.02 - 0.02)	-0.00 (-0.02 - 0.01)	-0.00 (-0.02 - 0.01)	-0.00 (-0.02 - 0.01)
Gender (M > F)	-0.27 (-0.490.05)	-0.27 (-0.490.04)	-0.27 (-0.510.04)	-0.27 (-0.490.04)	-0.27 (-0.500.04)	-0.26 (-0.480.04)	-0.26 (-0.490.05)	-0.26 (-0.480.04)
Timepoint (FU > BL)	0.07 (-0.04 - 0.18)	0.07 (-0.04 - 0.18)	0.07 (-0.04 - 0.18)	0.07 (-0.04 - 0.19)	0.07 (-0.05 - 0.18)	0.07 (-0.05 - 0.18)	0.07 (-0.04 - 0.18)	0.07 (-0.05 - 0.18)
Intervention (Fiber > Placebo)	0.04 (-0.07 - 0.15)	0.04 (-0.07 - 0.15)	0.04 (-0.07 - 0.15)	0.04 (-0.07 - 0.14)	0.04 (-0.07 - 0.15)	0.04 (-0.08 - 0.15)	0.04 (-0.07 - 0.15)	0.04 (-0.08 - 0.15)
Timepoint * Intervention	-0.04 (-0.20 - 0.12)	-0.04 (-0.20 - 0.13)	-0.04 (-0.20 - 0.12)	-0.03 (-0.20 - 0.13)	-0.04 (-0.20 - 0.12)	-0.04 (-0.20 - 0.13)	-0.04 (-0.19 - 0.12)	-0.03 (-0.19 - 0.13)
Random Effec	ts							
σ2	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
T ₀₀	0.03 Set	0.02 Set	0.02 Set	0.02 Set	0.02 Set	0.04 Set	0.02 Set	0.02 Set
	0.05 Subject							
T11	0.32 Set.CategoryF	0.27 Set.CategoryF	0.35 Set.CategoryF	0.26 Set.CategoryF	0.32 Set.CategoryF	0.35 Set.CategoryF	0.27 Set.CategoryF	0.28 Set.CategoryF
	0.03 Subject.CategoryF							
	0.00 Subject.hunger_mean_total							
	0.03 Subject.Wanting_catneutral							
	0.04 Subject.Wanting_catwanted							
	0.75 Subject.nQA_UF_mean	0.79 Subject.nQA_UF_mean	0.77 Subject.nQA_UF_mean	0.79 Subject.nQA_UF_mean	0.73 Subject.nQA_UF_mean	0.77 Subject.nQA_UF_mean	0.72 Subject.nQA_UF_mean	0.73 Subject.nQA_UF_mean
	0.28 Subject.CategoryF:nQA_UF_mean	0.29 Subject.CategoryF:nQA_UF_mean	0.27 Subject.CategoryF:nQA_UF_mean	0.27 Subject.CategoryF:nQA_UF_mean	0.28 Subject.CategoryF:nQA_UF_mean	0.30 Subject.CategoryF:nQA_UF_mean	0.28 Subject.CategoryF:nQA_UF_mean	0.27 Subject.CategoryF:nQA_UF_mean
	0.01 Subject.hunger mean total:nQA UF mean	0.01 Subject.hunger mean total:nQA UF mean	0.01 Subject.hunger mean total:nQA UF mean	0.01 Subject.hunger mean total.nQA UF mean	0.01 Subject.hunger mean total:nQA UF mean			
	0.30	0.30	0.30	0.30	0.33	0.34	0.29	0.34
	Subject.Wanting_catneutral:nQA_UF_mean 0.59 Subject.Wanting_catwanted:nQA_UF_mean	Subject.Wanting_catneutral:nQA_UF_mean 0.60 Subject.Wanting_catwanted:nQA_UF_mean	Subject.Wanting_catneutral:nQA_UF_mean 0.67 Subject.Wanting_catwanted:nQA_UF_mean	Subject.Wanting_catneutral:nQA_UF_mean 0.56 Subject.Wanting_catwanted:nQA_UF_mean	Subject.Wanting_catneutral:nQA_UF_mean 0.68 Subject.Wanting_catwanted:nQA_UF_mean	Subject.Wanting_catneutral:nQA_UF_mean 0.67 Subject.Wanting_catwanted:nQA_UF_mean	Subject.Wanting_catneutral.nQA_UF_mean 0.59 Subject.Wanting_catwanted:nQA_UF_mean	Subject.Wanting_catneutral:nQA_UF_mean 0.68 Subject.Wanting_catwanted:nQA_UF_mean
ρ ₀₁								
ρ ₀₁								
ICC	0.45	0.39	0.44	0.41	0.42	0.42	0.38	0.36
N	55 Subject							
	4 Set							
Observations	1022	1022	1022	1022	1022	1022	1022	1022
Marginal R2 /	0.210 / 0.428	0.210 / 0.427	0.208 / 0.426	0.208 / 0.427	0.205 / 0.426	0.203 / 0.426	0.209 / 0.427	0.204 / 0.426

Conditional R2

Table 10-2-1: Full and null (1-7) BLRMs for the effect of microstructural coherence of the UF on LDI.

	full model	null model 1	null model 2	null model 3	null model 4	null model 5	null model 6	null model 7
Predictors for LDI	Estimates	Estimates	Estimates	Estimates	Estimates	Estimates	Estimates	Estimates
Intercept	1.14 (-1.25 – 3.68)	0.93 (-1.53 - 3.42)	0.74 (-0.64 - 2.18)	1.37 (-1.00 - 3.74)	1.05 (-0.21 - 2.35)	1.14 (-1.19 - 3.50)	0.50 (-0.73 - 1.72)	0.80 (-0.28 - 1.90)
Category (F > NF)	1.33 (0.09 – 2.64)	1.35 (0.08 - 2.66)	1.34 (0.04 - 2.70)	0.74 (0.23 - 1.25)	0.73 (0.08 - 1.24)	0.73 (0.13 - 1.24)	1.33 (0.08 - 2.60)	0.73 (0.17 - 1.30)
Subjective Hunger Level	-0.08 (-0.54 - 0.36)	-0.10 (-0.56 - 0.37)	-0.00 (-0.05 - 0.05)	-0.07 (-0.53 - 0.37)	-0.00 (-0.05 - 0.05)	-0.08 (-0.53 - 0.37)	-0.00 (-0.05 - 0.05)	-0.00 (-0.05 - 0.05)
Wanting Category (neutral > unwanted)	-0.76 (-1.96 - 0.55)	0.05 (-0.07 - 0.16)	-0.76 (-2.03 - 0.55)	-0.75 (-2.04 - 0.52)	-0.74 (-2.03 - 0.51)	0.05 (-0.07 - 0.16)	0.05 (-0.07 - 0.16)	0.05 (-0.06 - 0.16)
Wanting Category (wanted > unwanted)	-0.00 (-1.35 - 1.37)	-0.01 (-0.14 - 0.12)	-0.02 (-1.43 - 1.39)	0.01 (-1.39 - 1.41)	0.01 (-1.39 - 1.44)	-0.01 (-0.15 - 0.12)	-0.01 (-0.14 - 0.12)	-0.01 (-0.14 - 0.12)
nQA(UF)	-0.27 (-9.40 - 8.49)	0.40 (-8.76 - 9.57)	1.18 (-3.43 - 5.80)	-1.13 (-9.89 - 7.60)	0.10 (-4.00 - 4.07)	-0.32 (-9.07 - 8.15)	2.05 (-1.71 - 6.04)	1.03 (-2.25 - 4.24)
Age	-0.01 (-0.02 - 0.01)	-0.01 (-0.02 - 0.01)	-0.01 (-0.02 - 0.01)	-0.01 (-0.02 - 0.01)	-0.01 (-0.02 - 0.01)	-0.01 (-0.02 - 0.01)	-0.01 (-0.02 - 0.01)	-0.01 (-0.02 - 0.01)
Gender (M > F)	-0.31 (-0.53 – -0.07)	-0.30 (-0.530.07)	-0.30 (-0.540.07)	-0.30 (-0.530.06)	-0.30 (-0.530.07)	-0.31 (-0.540.08)	-0.30 (-0.520.07)	-0.30 (-0.530.08)
Timepoint (FU > BL)	0.07 (-0.06 - 0.20)	0.07 (-0.05 - 0.19)	0.07 (-0.06 - 0.19)	0.07 (-0.05 - 0.20)	0.07 (-0.05 - 0.19)	0.07 (-0.05 - 0.20)	0.07 (-0.05 - 0.20)	0.07 (-0.06 - 0.19)
Intervention (Fiber > Placebo)	0.06 (-0.06 - 0.18)	0.06 (-0.06 - 0.17)	0.06 (-0.07 - 0.18)	0.06 (-0.06 - 0.18)	0.06 (-0.06 - 0.18)	0.05 (-0.07 - 0.18)	0.06 (-0.06 - 0.18)	0.06 (-0.06 - 0.18)
Category (F > NF) * nQA(UF)	-2.21 (-6.54 – 2.07)	-2.26 (-6.74 - 2.03)	-2.24 (-6.83 - 1.99)				-2.20 (-6.53 - 2.09)	
Subjective Hunger Level * nQA(UF)	0.29 (-1.39 - 2.04)	0.36 (-1.42 - 2.14)		0.25 (-1.42 – 2.01)		0.30 (-1.41 - 2.03)		
Wanting Category (neutral > unwanted) * nQA(UF)	2.97 (-1.82 - 7.42)		2.97 (-1.86 - 7.66)	2.96 (-1.77 – 7.72)	2.94 (-1.74 - 7.60)			
Wanting Category (wanted > unwanted) * nQA(UF)	-0.04 (-5.09 – 4.93)		-0.01 (-5.09 - 5.20)	-0.11 (-5.23 – 5.09)	-0.12 (-5.38 - 5.10)			
Timepoint * Intervention	-0.01 (-0.19 - 0.18)	-0.01 (-0.18 – 0.17)	-0.01 (-0.19 - 0.17)	-0.01 (-0.18 – 0.17)	-0.01 (-0.19 - 0.17)	-0.01 (-0.19 - 0.17)	-0.02 (-0.19 - 0.16)	-0.01 (-0.19 - 0.16)
Random Effec	ts 0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46
т ₀₀	0.02 Set	0.02 Set	0.02 Set	0.03 Set	0.02 Set	0.02 Set	0.02 Set	0.02 Set
	0.07 Subject	0.05 Subject	0.05 Subject	0.05 Subject	0.05 Subject	0.06 Subject	0.06 Subject	0.06 Subject
т11	0.35 Set.CategoryF	0.29 Set.CategoryF	0.36 Set.CategoryF	0.32 Set.CategoryF	0.34 Set.CategoryF	0.32 Set.CategoryF	0.30 Set.CategoryF	0.33 Set.CategoryF
	0.00 Subject.CategoryF	0.00 Subject.Category+	0.00 Subject.Category-	0.00 Subject.Category- 0.00 Subject.hunger mean total	0.00 Subject.Categoryt- 0.00 Subject.hunger mean total	0.00 Subject.Category- 0.00 Subject.hunger mean total	0.00 Subject.Category+ 0.00 Subject.hunger mean total	0.00 Subject.Category+ 0.00 Subject.hunger mean total
	Subject.hunger_mean_total 0.02	0.02 Subject Wanting, connectral	0.02 Subject Wanting, computed	0.02 Subject Wanting, catneutral	0.02 Subject Wanting, extrauted	0.02 Subject Wanting, catheutral	0.02 Subject Wanting, come trail	0.02 Subject Wanting cotneutral
	Subject.Wanting_catneutral 0.07	0.05	0.04 c. bi Wester	0.05 c. trian Wester and the	0.05 a bioxiliar and a second	0.05 a bio Westing astronom	0.05 c	0.05 c. him Warter and a strange
	Subject.Wanting_catwanted 1.00	0.91 Subject.nQA_UF_mean	0.81 Subject.nQA_UF_mean	0.86 Subject.nQA_UF_mean	0.81 Subject.nQA_UF_mean	0.80 Subject.nQA_UF_mean	0.78 Subject.nQA_UF_mean	0.78 Subject.nQA_UF_mean
	Subject.nQA_UF_mean	0.34 Subject.CategoryF:nQA_UF_mean	0.33 Subject.CategoryF:nQA_UF_mean	0.31 Subject.CategoryFmQA_UF_mean	0.34 Subject.CategoryF:nQA_UF_mean	0.31 Subject.CategoryF:nQA_UF_mean	0.34 Subject.CategoryF:nQA_UF_mean	0.33 Subject.CategoryF:nQA_UF_mean
		0.01 Subject.hunger_mean_total:nQA_UF_mean	0.01 Subject.hunger_mean_total:nQA_UF_mean	0.01 Subject.hunger_mean_total:nQA_UF_mean	0.01 Subject.hunger_mean_total:nQA_UF_mean	0.01 Subject.hunger_mean_total:nQA_UF_mean	0.01 Subject.hunger_mean_total:nQA_UF_mean	0.01 Subject.hunger_mean_total:nQA_UF_mean
		0.23 Subject Wanting catneutral:nOA UE mean	0.23 Subject Wanting catneutral nOA UE mean	0.22 Subject Wanting, catneutral:nOA, UE, mean	0.23 Subject Wanting catneutral:nOA UE mean	0.23 Subject Wanting, catneutral nOA, UE, mean	0.23 Subject Wanting catneutral:nOA UE mean	0.23 Subject Wanting catneutral nOA UE mean
		0.71 Subject Wanting estimated nOA LIE mean	0.76 Schied Westing, astronomous OA, UE, man	0.71 Subject Wanting extranetodinOA LIE mean	0.71 Subject Wanting, estimated a OA, UE, mean	0.68 Subject Westing, estimated a OA, UE, man	0.67 Subject Wanting estimated nOA LIE mean	0.70 Subject Wanting, antwasted in OA, LIE, mann
ρ ₀₁		suges. ranning_sawanes.nan_or_mean	osuposammg_caswantes.non_or_mean	sauponranning_sanwarnes.inzet_OF_mean	owyce. Hanny_terwanter.nur_Or_mean			outpot.vaning_catwanter.nen_UF_mean
ρ ₀₁								
N	0.43 55 Subject	0.40 55 Subject	0.44 55 Subject	0.43 55 Subject	0.43 55 Subject	0.42 55 Subject	0.40 55 Subject	0.41 55 Subject
	4 Set	4 Set	4 Set	4 Set	4 Set	4 Set	4 Set	4 Set
Observations	1011	1011	1011	1011	1011	1011	1011	1011
Marginal R2 / Conditional R2	0.225 / 0.412	0.220 / 0.419	0.224 / 0.420	0.222 / 0.418	0.220 / 0.418	0.218 / 0.417	0.220 / 0.417	0.219 / 0.417

Table 10-2-2: Null (7-14) BLRMs for the effect of microstructural coherence of the UF on LDI.

Dradiatora (or	null model 7	null model 8	null model 9	null model 10	null model 11	null model 12	null model 13	null model 14
LDI	Estimates							
Intercept	0.80 (-0.28 - 1.90)	1.08 (0.52 - 1.63)	0.81 (-0.31 - 1.88)	0.78 (-0.31 - 1.84)	0.78 (-0.27 - 1.85)	1.09 (0.53 - 1.65)	1.06 (0.57 – 1.57)	1.08 (0.53 – 1.57)
Category (F > NF)	0.73 (0.17 - 1.30)	0.73 (0.19 - 1.29)	0.74 (0.22 - 1.27)	0.73 (0.19 - 1.32)	0.74 (0.11 - 1.26)	0.73 (0.19 - 1.23)	0.73 (0.21 - 1.26)	0.73 (0.15 - 1.25)
Subjective Hunger Level	-0.00 (-0.05 - 0.05)	-0.00 (-0.05 - 0.05)	-0.00 (-0.05 - 0.05)			-0.00 (-0.05 - 0.04)		
Wanting Category (neutral > unwanted)	0.05 (-0.06 - 0.16)	0.05 (-0.07 - 0.16)		0.05 (-0.06 - 0.16)			0.05 (-0.06 - 0.16)	
Wanting Category (wanted > unwanted)	-0.01 (-0.14 - 0.12)	-0.01 (-0.15 - 0.12)		-0.01 (-0.14 - 0.12)			-0.01 (-0.14 - 0.12)	
nQA(UF)	1.03 (-2.25 - 4.24)		1.01 (-2.24 - 4.33)	1.03 (-2.17 - 4.20)	1.01 (-2.23 - 4.18)			
Age	-0.01 (-0.02 - 0.01)							
Gender (M > F)	-0.30 (-0.530.08)	-0.29 (-0.520.07)	-0.30 (-0.530.07)	-0.30 (-0.530.08)	-0.30 (-0.530.07)	-0.29 (-0.530.06)	-0.29 (-0.51 – -0.07)	-0.29 (-0.510.06)
Timepoint (FU > BL)	0.07 (-0.06 - 0.19)	0.07 (-0.06 - 0.19)	0.07 (-0.06 - 0.20)	0.07 (-0.06 - 0.19)	0.07 (-0.06 - 0.19)	0.07 (-0.06 - 0.19)	0.07 (-0.06 - 0.20)	0.07 (-0.06 - 0.19)
Intervention (Fiber > Placebo)	0.06 (-0.06 - 0.18)	0.05 (-0.07 - 0.18)	0.06 (-0.06 - 0.18)	0.06 (-0.06 - 0.18)	0.05 (-0.07 - 0.17)	0.05 (-0.07 - 0.17)	0.05 (-0.07 - 0.17)	0.05 (-0.07 - 0.17)
Timepoint * Intervention	-0.01 (-0.19 - 0.16)	-0.01 (-0.18 - 0.17)	-0.01 (-0.19 - 0.16)	-0.01 (-0.18 - 0.16)	-0.01 (-0.18 - 0.17)	-0.00 (-0.18 - 0.17)	-0.00 (-0.18 - 0.17)	-0.01 (-0.17 – 0.17)
Random Effec	ts							
σ2	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46
T ₀₀	0.02 Set	0.02 Set	0.03 Set	0.03 Set	0.02 Set	0.02 Set	0.02 Set	0.02 Set
	0.06 Subject	0.06 Subject	0.06 Subject	0.06 Subject	0.05 Subject	0.06 Subject	0.05 Subject	0.05 Subject
т11	0.33 Set.CategoryF	0.31 Set.CategoryF	0.32 Set.CategoryF	0.34 Set.CategoryF	0.33 Set.CategoryF	0.30 Set.CategoryF	0.31 Set.CategoryF	0.31 Set.CategoryF
	0.03 Subject.CategoryF							
	0.00 Subject.hunger_mean_total							
	0.02 Subject.Wanting_catneutral							
	0.05 Subject.Wanting_catwanted	0.04 Subject.Wanting_catwanted	0.04 Subject.Wanting_catwanted	0.05 Subject.Wanting_catwanted	0.04 Subject.Wanting_catwanted	0.04 Subject.Wanting_catwanted	0.05 Subject.Wanting_catwanted	0.04 Subject.Wanting_catwanted
	0.78 Subject.nQA_UF_mean	0.82 Subject.nQA_UF_mean	0.76 Subject.nQA_UF_mean	0.76 Subject.nQA_UF_mean	0.79 Subject.nQA_UF_mean	0.78 Subject.nQA_UF_mean	0.80 Subject.nQA_UF_mean	0.79 Subject.nQA_UF_mean
	0.33 Subject.CategoryF:nQA_UF_mean	0.33 Subject.CategoryF:nQA_UF_mean	0.32 Subject.CategoryF:nQA_UF_mean	0.31 Subject.CategoryF:nQA_UF_mean	0.33 Subject.CategoryF:nQA_UF_mean	0.30 Subject.CategoryF:nQA_UF_mean	0.34 Subject.CategoryF:nQA_UF_mean	0.33 Subject.CategoryF:nQA_UF_mean
	U.U1 Subject.hunger_mean_total:nQA_UF_mean	0.01 Subject.hunger_mean_total:nQA_UF_mean	0.01 Subject.hunger_mean_total:nQA_UF_mean	0.01 Subject.hunger_mean_total:nQA_UF_mean	U.U1 Subject.hunger_mean_total:nQA_UF_mean	0.01 Subject.hunger_mean_total:nQA_UF_mean	0.01 Subject.hunger_mean_total:nQA_UF_mean	0.01 Subject.hunger_mean_total:nQA_UF_mean
	0.23	0.22	0.24	0.23	0.25	0.24	0.23	0.25
	Subject.Wanting_catneutral:nQA_UP_mean 0.70 Subject.Wanting_catwanted:nQA_UF_mean	Subject.Wanting_catneutral:nQA_UP_mean 0.71 Subject.Wanting_catwanted:nQA_UF_mean	Subject.Wanting_catneutral:nQA_UP_mean 0.67 Subject.Wanting_catwanted:nQA_UF_mean	Subject.Wanting_catneutral:nQA_UP_mean 0.68 Subject.Wanting_catwanted:nQA_UF_mean	Subject.Wanting_catneutral:nQA_UP_mean 0.66 Subject.Wanting_catwanted:nQA_UF_mean	Subject.Wanting_catneutral:nQA_UP_mean 0.65 Subject.Wanting_catwanted:nQA_UF_mean	Subject.Wanting_catneutral:nQA_UP_mean 0.69 Subject.Wanting_catwanted:nQA_UF_mean	Subject.Wanting_catneutral:nQA_UF_mean 0.66 Subject.Wanting_catwanted:nQA_UF_mean
ρ ₀₁								
P01								
ICC	0.41	0.37	0.39	0.41	0.39	0.35	0.36	0.34
N	55 Subject							
	4 Set							
Observations	1011	1011	1011	1011	1011	1011	1011	1011
Marginal R2 /	0.219 / 0.417	0.218 / 0.417	0.218 / 0.415	0.217 / 0.416	0.218 / 0.415	0.214 / 0.415	0.216 / 0.416	0.213 / 0.415

Conditional R2

Table 10-3-1: Full and null (1-7) BLRMs for the effect of microstructural coherence of the sub-bundle of the UF on *d*'.

	full model	null model 1	null model 2	null model 3	null model 4	null model 5	null model 6	null model 7
Predictors for d'	Estimates							
Intercept	1.81 (0.35 - 3.29)	1.65 (0.21 - 3.10)	1.43 (0.47 - 2.41)	1.83 (0.39 - 3.33)	1.44 (0.53 - 2.35)	1.66 (0.26 - 3.10)	1.19 (0.34 - 2.09)	1.19 (0.42 - 1.98)
Category (F > NF)	0.73 (-0.18 - 1.61)	0.72 (-0.14 - 1.68)	0.72 (-0.17 - 1.60)	0.68 (0.16 - 1.27)	0.67 (0.14 - 1.20)	0.67 (0.17 - 1.17)	0.69 (-0.20 - 1.58)	0.67 (0.16 - 1.13)
Subjective Hunger Level	-0.09 (-0.34 - 0.15)	-0.10 (-0.35 - 0.14)	-0.01 (-0.05 - 0.04)	-0.09 (-0.34 - 0.16)	-0.01 (-0.05 - 0.04)	-0.10 (-0.34 - 0.15)	-0.01 (-0.05 - 0.04)	-0.01 (-0.05 - 0.04)
Wanting Category (neutral > unwanted)	-0.50 (-1.31 - 0.31)	0.04 (-0.07 - 0.15)	-0.52 (-1.35 - 0.29)	-0.51 (-1.31 - 0.30)	-0.52 (-1.35 - 0.32)	0.04 (-0.07 - 0.16)	0.04 (-0.07 - 0.15)	0.04 (-0.07 - 0.15)
Wanting Category (wanted > unwanted)	-0.32 (-1.19 - 0.57)	-0.11 (-0.22 - 0.01)	-0.33 (-1.23 - 0.53)	-0.32 (-1.19 - 0.55)	-0.33 (-1.21 - 0.54)	-0.10 (-0.23 - 0.02)	-0.11 (-0.23 - 0.01)	-0.10 (-0.22 - 0.01)
nQA(sub- UF)	-3.08 (-11.14 - 4.55)	-2.13 (-9.92 - 5.51)	-0.79 (-4.85 - 3.33)	-3.15 (-10.94 - 4.47)	-0.80 (-4.68 – 2.86)	-2.19 (-9.45 - 5.42)	0.54 (-2.92 - 3.95)	0.50 (-2.31 - 3.31)
Gender (M > F)	-0.25 (-0.480.03)	-0.25 (-0.480.03)	-0.25 (-0.470.02)	-0.25 (-0.470.03)	-0.25 (-0.470.02)	-0.25 (-0.470.03)	-0.25 (-0.480.04)	-0.25 (-0.470.03)
Age	-0.00 (-0.02 - 0.01)							
Timepoint (FU > BL)	0.07 (-0.05 - 0.18)	0.07 (-0.04 - 0.19)	0.07 (-0.05 - 0.18)	0.07 (-0.04 - 0.19)	0.07 (-0.04 - 0.18)	0.07 (-0.05 - 0.19)	0.07 (-0.04 - 0.18)	0.07 (-0.05 - 0.18)
Intervention (Fiber > Placebo)	0.04 (-0.08 - 0.15)	0.04 (-0.07 - 0.15)	0.04 (-0.07 - 0.15)	0.04 (-0.07 - 0.15)	0.04 (-0.07 - 0.15)	0.04 (-0.08 - 0.15)	0.04 (-0.07 - 0.15)	0.04 (-0.07 - 0.15)
Category (F > NF) * nQA(sub- UF)	-0.32 (-4.31 - 3.81)	-0.19 (-4.26 - 3.80)	-0.26 (-4.30 - 3.87)				-0.07 (-4.18 - 4.10)	
Subjective Hunger Level * nQA(sub- UF)	0.51 (-0.91 - 1.95)	0.57 (-0.90 – 2.07)		0.49 (-0.98 - 1.94)		0.57 (-0.90 - 2.00)		
Wanting Category (neutral > unwanted) * nQA(sub- UF)	3.09 (-1.45 – 7.65)		3.19 (-1.36 – 7.88)	3.10 (-1.40 - 7.66)	3.25 (-1.50 – 7.87)			
Wanting Category (wanted > unwanted) * nQA(sub- UF)	1.21 (-3.77 - 6.11)		1.27 (-3.59 – 6.39)	1.24 (-3.73 - 6.15)	1.28 (-3.65 – 6.27)			
Timepoint * Intervention	-0.04 (-0.21 - 0.13)	-0.04 (-0.20 - 0.12)	-0.04 (-0.20 - 0.13)	-0.04 (-0.20 - 0.13)	-0.04 (-0.21 - 0.12)	-0.03 (-0.20 - 0.13)	-0.04 (-0.20 - 0.13)	-0.04 (-0.20 - 0.12)
Random Effec	ts 0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
т ₀₀	0.02 Set	0.02 Set	0.03 Set	0.03 Set	0.02 Set	0.03 Set	0.02 Set	0.02 Set
	0.04 Subject							
111	0.02 Subject CategoryF	0.03 Set.CategoryF 0.03 Subject CategoryF	0.29 Set.CategoryF 0.02 Subject CompanyF	0.01 Set.CategoryF 0.02 Publicat CategoryF	0.30 Set.CategoryF 0.02 Subject CategoryF	0.01 Set.CategoryF 0.02 Subject CategoryF	0.29 Set.CategoryF 0.02 Subject CategoryF	0.27 Set.CategoryF 0.02 Subject CategoryF
	0.00 Subject.hunger mean total	0.00 Subject.hunger mean total	0.00 Subject-hunger mean total	0.00 Subject hunger mean total				
	0.02 Subject.Wanting_catneutral	0.03 Subject.Wanting_catneutral	0.02 Subject.Wanting_catneutral					
	0.05 Subject.Wanting_catwanted	0.04 Subject.Wanting_catwanted						
	1.90 Subject.nQA_sub_UF_mean	1.82 Subject.nQA_sub_UF_mean	1.94 Subject.nQA_sub_UF_mean	1.88 Subject.nQA_sub_UF_mean	1.90 Subject.nQA_sub_UF_mean	1.90 Subject.nQA_sub_UF_mean	1.84 Subject.nQA_sub_UF_mean	1.81 Subject.nQA_sub_UF_mean
	0.72 Subject.CategoryF:nQA_sub_UF_mean	0.69 Subject.CategoryF:nQA_sub_UF_mean	0.70 Subject.CategoryF:nQA_sub_UF_mean	0.71 Subject.CategoryF:nQA_sub_UF_mean	0.69 Subject.CategoryF:nQA_sub_UF_mean	0.72 Subject.CategoryF:nQA_sub_UF_mean	0.74 Subject.CategoryF:nQA_sub_UF_mean	0.74 Subject.CategoryF:nQA_sub_UF_mean
	Subject.hunger_mean_total.nQA_sub_UF_mean	Subject.hunger_mean_total:nQA_sub_UF_mean	Subject.hunger_mean_total:nQA_sub_UF_mean	Subject.hunger_mean_total:nQA_sub_UF_mean	Subject.hunger_mean_totalsnQA_sub_UF_mean	Subject.hunger_mean_totalsnQA_sub_UF_mean	Subject.hunger_mean_totalsnQA_sub_UF_mean	Subject.hunger_mean_total:nQA_sub_UF_mean
	0.61 Subject.Warting catneutral:nQA sub UF mean	0.69 Subject.Wanting catneutral:nQA sub UF mean	0.59 Subject.Wanting catneutral:nQA sub UF mean	0.60 Subject.Wanting catneutral:nQA sub UF mean	0.59 Subject.Wanting catneutral:nQA sub UF mean	0.67 Subject.Wanting catneutral:nQA sub UF mean	0.67 Subject.Wanting catneutral:nQA sub UF mean	0.69 Subject.Wanting catneutral:nQA sub UF mean
	1.00 Subject.Warning_catwanted:rQA_sub_UF_mean	0.96 Subject.Wanting_catwanted:rQA_sub_UF_mean	0.98 Subject.Wanting_catwanted:r/QA_sub_UF_mean	1.03 Subject.Wanting_catwanted:rQA_sub_UF_mean	1.04 Subject.Wanting_catwanted:rQA_sub_UF_mean	0.92 Subject.Wanting_catwanted:rQA_sub_UF_mean	0.99 Subject.Wanting_catwanted:rQA_sub_UF_mean	1.04 Subject.Wanting_catwarted:r/QA_sub_UF_mean
P01								
ICC	0.46	0.47	0.45	0.46	0.44	0.45	0.44	0.42
N	55 Subject							
	4 Set							
Observations	1022	1022	1022	1022	1022	1022	1022	1022
Marginal R2 / Conditional R2	0.213 / 0.428	0.213 / 0.427	0.213 / 0.427	0.213 / 0.427	0.213 / 0.427	0.210 / 0.427	0.211 / 0.427	0.209 / 0.426

Table 10-3-2: Null (7-14) BLRMs for the effect of microstructural coherence of the sub-bundle of the UF on d'.

	null model 7	null model 8	null model 9	null model 10	null model 11	null model 12	null model 13	null model 14
Predictors for d'	Estimates	Estimates	Estimates	Estimates	Estimates	Estimates	Estimates	Estimates
Intercept	1.19 (0.42 - 1.98)	1.30 (0.77 - 1.84)	1.19 (0.40 - 1.98)	1.16 (0.40 - 1.89)	1.15 (0.41 - 1.90)	1.30 (0.74 - 1.82)	1.27 (0.77 - 1.78)	1.26 (0.76 - 1.75)
Category (F > NF)	0.67 (0.16 - 1.13)	0.67 (0.18 - 1.27)	0.67 (0.11 - 1.18)	0.67 (0.17 - 1.21)	0.68 (0.19 - 1.20)	0.67 (0.15 - 1.18)	0.67 (0.16 - 1.22)	0.67 (0.14 - 1.26)
Subjective Hunger Level	-0.01 (-0.05 - 0.04)	-0.01 (-0.05 - 0.04)	-0.01 (-0.05 - 0.04)			-0.01 (-0.06 - 0.04)		
Wanting Category (neutral > unwanted)	0.04 (-0.07 - 0.15)	0.04 (-0.07 - 0.15)		0.04 (-0.07 - 0.15)			0.04 (-0.07 - 0.15)	
Wanting Category (wanted > unwanted)	-0.10 (-0.22 - 0.01)	-0.10 (-0.22 - 0.02)		-0.10 (-0.22 - 0.02)			-0.10 (-0.23 - 0.01)	
nQA(sub- UF)	0.50 (-2.31 - 3.31)		0.48 (-2.34 - 3.29)	0.52 (-2.33 - 3.43)	0.50 (-2.26 - 3.27)			
Gender (M > F)	-0.25 (-0.470.03)	-0.25 (-0.470.03)	-0.25 (-0.470.03)	-0.25 (-0.470.03)	-0.25 (-0.470.03)	-0.25 (-0.460.03)	-0.26 (-0.480.03)	-0.25 (-0.470.02)
Age	-0.00 (-0.02 - 0.01)	-0.00 (-0.02 - 0.01)	-0.00 (-0.02 - 0.01)	-0.00 (-0.02 - 0.01)	-0.00 (-0.02 - 0.01)	-0.00 (-0.02 - 0.01)	-0.00 (-0.02 - 0.01)	-0.00 (-0.02 - 0.01)
Timepoint (FU > BL)	0.07 (-0.05 - 0.18)	0.07 (-0.05 - 0.19)	0.07 (-0.04 - 0.19)	0.07 (-0.04 - 0.18)	0.07 (-0.05 - 0.18)	0.07 (-0.05 - 0.18)	0.07 (-0.05 - 0.18)	0.07 (-0.04 - 0.18)
Intervention (Fiber > Placebo)	0.04 (-0.07 - 0.15)	0.04 (-0.08 - 0.15)	0.04 (-0.07 - 0.15)	0.04 (-0.07 - 0.15)	0.04 (-0.07 - 0.15)	0.04 (-0.07 - 0.15)	0.04 (-0.07 - 0.15)	0.04 (-0.07 - 0.14)
Timepoint * Intervention	-0.04 (-0.20 - 0.12)	-0.04 (-0.20 - 0.13)	-0.04 (-0.20 - 0.12)	-0.04 (-0.20 - 0.12)	-0.04 (-0.19 - 0.12)	-0.04 (-0.20 - 0.13)	-0.03 (-0.20 - 0.12)	-0.03 (-0.19 - 0.13)
Random Effect	ts							
d2	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
T ₀₀	0.02 Set	0.02 Set	0.04 Set	0.03 Set	0.02 Set	0.02 Set	0.03 Set	0.02 Set
	0.04 Subject	0.04 Subject	0.04 Subject	0.04 Subject	0.04 Subject	0.04 Subject	0.04 Subject	0.04 Subject
T11	0.27 Set.CategoryF	0.33 Set.CategoryF	0.30 Set.CategoryF	0.30 Set.CategoryF	0.31 Set.CategoryF	0.27 Set.CategoryF	0.29 Set.CategoryF	0.30 Set.CategoryF
	0.02 Subject.CategoryF	0.02 Subject.CategoryF	0.02 Subject.CategoryF	0.02 Subject.CategoryF	0.02 Subject.CategoryF	0.02 Subject.CategoryF	0.02 Subject.CategoryF	0.02 Subject.CategoryF
	0.00 Subject.hunger_mean_total	0.00 Subject.hunger_mean_total	0.00 Subject.hunger_mean_total	0.00 Subject.hunger_mean_total	0.00 Subject.hunger_mean_total	0.00 Subject.hunger_mean_total	0.00 Subject.hunger_mean_total	0.00 Subject.hunger_mean_total
	0.02 Subject.Wanting_catneutral	0.02 Subject.Wanting_catneutral	0.03 Subject.Wanting_catneutral	0.02 Subject.Wanting_catneutral	0.03 Subject.Wanting_catneutral	0.03 Subject.Wanting_catneutral	0.03 Subject.Wanting_catneutral	0.03 Subject.Wanting_catneutral
	0.04 Subject.Wanting_catwanted	0.05 Subject.Wanting_catwanted	0.05 Subject.Wanting_catwanted	0.05 Subject.Wanting_catwanted	0.05 Subject.Wanting_catwanted	0.05 Subject.Wanting_catwanted	0.04 Subject.Wanting_catwanted	0.05 Subject.Wanting_catwanted
	1.81 Subject.nQA_sub_UF_mean	1.76 Subject.nQA_sub_UF_mean	1.83 Subject.nQA_sub_UF_mean	1.82 Subject.nQA_sub_UF_mean	1.86 Subject.nQA_sub_UF_mean	1.90 Subject.nQA_sub_UF_mean	1.82 Subject.nQA_sub_UF_mean	1.81 Subject.nQA_sub_UF_mean
	0.74 Subject.CategoryF:nQA_sub_UF_mean	0.71 Subject.CategoryF:nQA_sub_UF_mean	0.68 Subject.CategoryF:nQA_sub_UF_mean	0.68 Subject.CategoryF:nQA_sub_UF_mean	0.71 Subject.CategoryF:nQA_sub_UF_mean	0.70 Subject.CategoryF:nQA_sub_UF_mean	0.69 Subject.CategoryF:nQA_sub_UF_mean	0.69 Subject.CategoryF:nQA_sub_UF_mean
	0.03 Subject.hunger_mean_total.nQA_sub_UF_mean	0.03 Subject.hunger_mean_total:nQA_sub_UF_mean	0.03 Subject.hunger_mean_total:nQA_sub_UF_mean	0.03 Subject.hunger_mean_total:nQA_sub_UF_mean	0.03 Subject.hunger_mean_total:nQA_sub_UF_mean	0.03 Subject.hunger_mean_total:nQA_sub_UF_mean	0.03 Subject.hunger_mean_total:nQA_sub_UF_mean	0.03 Subject.hunger_mean_total:nQA_sub_UF_mean
	0.69 Subject Warding, catney/ral.pQA, sub, UF, mean	0.68 Subject Warring, catney train DA, sub, UF, mean	0.73 Subject Warting, catneutral nOA, sub, UF, mean	0.67 Subject Warting, catneutral nOA, sub, UE, mean	0.76 Subject Wanting, catney train OA, sub, UF, mean	0.77 Subject Wanting, catneutral nOA, sub, UE, mean	0.68 Subject Wanting, catneutral nOA, sub, UF, mean	0.75 Subject Wanting catneutral nOA sub UE mean
	1.04 Subject.Wanting_catwanted:nQA_sub_UF_mean	0.99 Subject.Wanting_catwanted:nQA_sub_UF_mean	1.05 Subject.Wanting_catwanted:nQA_sub_UF_mean	0.98 Subject.Wanting_catwanted:nQA_sub_UF_mean	1.14 Subject.Wanting_catwarted:nQA_sub_UF_mean	1.07 Subject.Wanting_catwanted:nQA_sub_UF_mean	1.07 Subject.Wanting_catwarted:nQA_sub_UF_mean	1.10 Subject.Wanting_catwanted:nQA_sub_UF_mean
ρ ₀₁								
P01								
ICC	0.42	0.41	0.43	0.44	0.41	0.36	0.38	0.36
N	55 Subject	55 Subject	55 Subject	55 Subject	55 Subject	55 Subject	55 Subject	55 Subject
	4 Set	4 Set	4 Set	4 Set	4 Set	4 Set	4 Set	4 Set
Observations	1022	1022	1022	1022	1022	1022	1022	1022
Marginal R2 / Conditional R2	0.209 / 0.426	0.208 / 0.426	0.202 / 0.425	0.209 / 0.426	0.205 / 0.425	0.201 / 0.425	0.206 / 0.427	0.202 / 0.425

Table 10-4-1: Full and null (1-7) BLRMs for the effect of microstructural coherence of the sub-bundle of the UF o	m
LDI.	

	full model	null model 1	null model 2	null model 3	null model 4	null model 5	null model 6	null model 7
Predictors for LDI	Estimates							
Intercept	1.66 (0.10 - 3.29)	1.72 (0.14 - 3.23)	1.05 (0.05 - 2.05)	1.61 (0.08 - 3.15)	0.96 (0.06 - 1.92)	1.65 (0.16 - 3.17)	1.07 (0.15 - 1.97)	0.98 (0.18 - 1.81)
Category (F > NF)	0.54 (-0.43 - 1.50)	0.59 (-0.34 - 1.56)	0.51 (-0.42 - 1.47)	0.73 (0.18 - 1.25)	0.74 (0.19 - 1.26)	0.74 (0.23 - 1.29)	0.56 (-0.40 - 1.47)	0.74 (0.20 - 1.28)
Subjective Hunger Level	-0.14 (-0.41 - 0.13)	-0.14 (-0.40 - 0.13)	-0.01 (-0.05 - 0.04)	-0.14 (-0.41 - 0.12)	-0.01 (-0.05 - 0.04)	-0.15 (-0.41 - 0.13)	-0.00 (-0.05 - 0.04)	-0.01 (-0.05 - 0.04)
Wanting Category (neutral > unwanted)	-0.23 (-1.06 - 0.61)	0.05 (-0.06 - 0.16)	-0.25 (-1.08 - 0.59)	-0.25 (-1.09 - 0.59)	-0.27 (-1.13 - 0.59)	0.05 (-0.06 - 0.16)	0.05 (-0.07 - 0.16)	0.05 (-0.07 - 0.16)
Wanting Category (wanted > unwanted)	0.53 (-0.39 - 1.47)	-0.01 (-0.14 - 0.12)	0.51 (-0.44 - 1.45)	0.51 (-0.41 - 1.44)	0.48 (-0.44 - 1.43)	-0.01 (-0.14 - 0.12)	-0.01 (-0.14 - 0.12)	-0.01 (-0.14 - 0.12)
nQA(sub- UF)	-3.49 (-12.15 - 4.97)	-3.80 (-11.93 - 4.59)	0.16 (-4.13 - 4.40)	-3.15 (-11.60 - 4.81)	0.62 (-3.23 - 4.50)	-3.47 (-11.42 - 4.56)	0.01 (-3.65 - 3.70)	0.51 (-2.44 - 3.53)
Gender (M > F)	-0.28 (-0.520.05)	-0.29 (-0.510.05)	-0.28 (-0.510.05)	-0.28 (-0.520.05)	-0.29 (-0.510.06)	-0.28 (-0.510.06)	-0.28 (-0.510.05)	-0.28 (-0.510.05)
Age	-0.01 (-0.02 - 0.01)							
Timepoint (FU > BL)	0.07 (-0.06 - 0.20)	0.07 (-0.06 - 0.20)	0.07 (-0.06 - 0.19)	0.07 (-0.05 - 0.20)	0.07 (-0.06 - 0.19)	0.07 (-0.05 - 0.19)	0.07 (-0.06 - 0.19)	0.07 (-0.06 - 0.19)
Intervention (Fiber > Placebo)	0.05 (-0.07 - 0.17)	0.05 (-0.07 - 0.17)	0.06 (-0.06 - 0.17)	0.05 (-0.07 - 0.17)	0.05 (-0.07 - 0.17)	0.05 (-0.07 - 0.17)	0.05 (-0.07 - 0.17)	0.06 (-0.06 - 0.18)
Category (F > NF) * nQA(sub- UF)	1.08 (-3.40 - 5.47)	0.93 (-3.44 - 5.27)	1.25 (-3.03 - 5.46)				1.00 (-3.40 - 5.28)	
Subjective Hunger Level * nQA(sub- UF)	0.79 (-0.78 – 2.39)	0.81 (-0.79 – 2.32)		0.82 (-0.72 – 2.44)		0.84 (-0.77 – 2.41)		
Wanting Category (neutral > unwanted) * nQA(sub- UF)	1.59 (-3.14 – 6.25)		1.73 (-3.00 – 6.33)	1.71 (-3.11 – 6.43)	1.80 (-2.99 – 6.64)			
Wanting Category (wanted > unwanted) * nQA(sub- UF)	-3.05 (-8.29 - 2.13)		-2.97 (-8.23 – 2.35)	-2.95 (-8.23 – 2.17)	-2.80 (-8.11 – 2.45)			
Timepoint * Intervention	-0.00 (-0.19 - 0.18)	-0.00 (-0.18 - 0.18)	-0.01 (-0.18 - 0.17)	-0.00 (-0.18 - 0.17)	-0.01 (-0.19 - 0.17)	-0.00 (-0.18 - 0.17)	-0.01 (-0.19 - 0.17)	-0.01 (-0.18 - 0.16)
Random Effec	ts	0.40	0.42	0.40			0.40	0.40
T00	0.02 Set	0.46 0.02 _{Set}	0.02 Set	0.46 0.02 _{Set}	0.46 0.03 _{Set}	0.46 0.02 _{Set}	0.46 0.03 _{Set}	0.46 0.02 _{Set}
	0.05 Subject	0.05 Subject	0.04 Subject	0.04 Subject	0.04 Subject	0.05 Subject	0.05 Subject	0.04 Subject
T ₁₁	0.31 Set.CategoryF	0.33 Set.CategoryF	0.35 Set.CategoryF	0.31 Set.CategoryF	0.34 Set.CategoryF	0.31 Set.CategoryF	0.33 Set.CategoryF	0.31 Set.CategoryF
	0.03 Subject.CategoryF							
	0.02 Subject.nunger_mean_total	0.02 Subject.hunger_mean_total	0.02 Subject Warting, catheutral	0.02 Subject.nunger_mean_total	0.02 Subject.nunger_mean_total	0.02 Subject hunger_mean_total	0.02 Subject Wanting catherina	0.02 Subject Manting, catheotral
	0.05 Subject Warring catwarted	0.05 Subject Wanting, catwarted	0.05 Subject Wanting, catwarted	0.05 Subject Wanting, catwarted	0.05 Subject Wanting catwarted	0.05 Subject Wanting catwarted	0.05 Subject Wanting, catwarted	0.05 Subject Wanting catwarted
	2.09 Subject.nQA_sub_UF_mean	2.12 Subject.nQA_sub_UF_mean	2.24 Subject.nQA_sub_UF_mean	2.17 Subject.nQA_sub_UF_mean	2.20 Subject.nQA_sub_UF_mean	2.17 Subject.nQA_sub_UF_mean	2.08 Subject.nQA_sub_UF_mean	2.23 Subject.nQA_sub_UF_mean
	0.81 Subject.CategoryF:nQA_sub_UF_mean	0.84 Subject.CategoryF:nQA_sub_UF_mean	0.80 Subject.CategoryF:nQA_sub_UF_mean	0.81 Subject.CategoryF:nQA_sub_UF_mean	0.84 Subject.CategoryF:nQA_sub_UF_mean	0.80 Subject.CategoryF:nQA_sub_UF_mean	0.78 Subject.CategoryF:nQA_sub_UF_mean	0.81 Subject.CategoryF:nQA_sub_UF_mean
	0.03 Subject.hunger mean total:nGA sub UF mean	0.03 Subject.hunger mean total:nOA sub UF mean	0.03 Subject.hunger mean total:nQA sub UF mean	0.03 Subject.hunger mean total.nQA sub UF mean	0.03 Subject.hunger mean total:nQA sub UF mean			
	0.46	0.52	0.45	0.47	0.46	0.50	0.49	0.50
	Subject.Wanting_catneutral:nGA_sub_UF_mean 1.26 Subject Wanting_catwanted:nGA_sub_UF_mean	Subject.Wanting_catneutral:nGA_sub_UF_mean 1.26 Subject Wanting_catworted:nGA_sub_UF_mean	Subject.Warring_catneutral:nGA_sub_UF_mean 1.33 Subject Warring_catworted:nGA_sub_UF_mean	Subject.Wanting_catneutral:nGA_sub_UF_mean 1.32 Subject Wanting_catworted:nGA_sub_UF_mean	Subject.Wanting_catneutral:nQA_sub_UF_mean 1.26 Subject Wanting_catworted:nQA_sub_UF_mean	Subject.Wanting_catneutral:nQA_sub_UF_mean 1.30 Subject Wanting_catworted:nQA_sub_UF_mean	Subject.Wanting_catneutral:nGA_sub_UF_mean 1.36 Subject Wanting_catworted:nGA_sub_UF_mean	Subject.Wanting_catneutral.nQA_sub_UF_mean 1.46 Subject Wanting_catwarted.nQA_sub_UF_mean
P01								
P01								
ICC	0.42	0.42	0.43	0.42	0.43	0.40	0.42	0.40
IN .	50 Subject	DO Subject	DD Subject	DO Subject	DO Subject	DD Subject	DD Subject	DD Subject
Observations	1011	1011	1011	1011	1011	1011	1011	1011
Marginal R2/	0.219 / 0.418	0.221 / 0.417	0.222 / 0.417	0.219 / 0.418	0.221 / 0.417	0.219 / 0.417	0.218 / 0.416	0.218 / 0.416
Conditional B2								

Table 10-4-2: Null (7-14) BLRMs for the effect of microstructural coherence of the sub-bundle of the UF on LDI.

	null model 7	null model 8	null model 9	null model 10	nuli model 11	null model 12	nuli model 13	nuli model 14
Predictors for LDI	Estimates							
Intercept	0.98 (0.18 - 1.81)	1.08 (0.52 - 1.65)	0.98 (0.18 - 1.79)	0.96 (0.13 - 1.72)	0.97 (0.21 - 1.75)	1.09 (0.53 - 1.65)	1.07 (0.54 - 1.56)	1.07 (0.54 - 1.57)
Category (F > NF)	0.74 (0.20 - 1.28)	0.73 (0.11 - 1.26)	0.74 (0.25 - 1.28)	0.74 (0.18 - 1.29)	0.73 (0.17 - 1.31)	0.74 (0.27 - 1.27)	0.73 (0.22 - 1.23)	0.73 (0.14 - 1.25)
Subjective Hunger Level	-0.01 (-0.05 - 0.04)	-0.00 (-0.05 - 0.04)	-0.00 (-0.05 - 0.04)			-0.00 (-0.05 - 0.04)		
Wanting Category (neutral > unwanted)	0.05 (-0.07 - 0.16)	0.05 (-0.06 - 0.16)		0.05 (-0.06 - 0.15)			0.05 (-0.06 - 0.16)	
Wanting Category (wanted > unwanted)	-0.01 (-0.14 - 0.12)	-0.01 (-0.14 - 0.12)		-0.01 (-0.14 - 0.12)			-0.01 (-0.14 - 0.12)	
nQA(sub- UF)	0.51 (-2.44 - 3.53)		0.53 (-2.43 - 3.53)	0.54 (-2.48 - 3.57)	0.53 (-2.50 - 3.49)			
Gender (M > F)	-0.28 (-0.510.05)	-0.28 (-0.510.06)	-0.28 (-0.510.05)	-0.28 (-0.510.06)	-0.28 (-0.510.05)	-0.28 (-0.500.05)	-0.28 (-0.500.06)	-0.28 (-0.500.05)
Age	-0.01 (-0.02 - 0.01)							
Timepoint (FU > BL)	0.07 (-0.06 - 0.19)	0.06 (-0.06 - 0.19)	0.07 (-0.06 - 0.19)	0.06 (-0.06 - 0.19)	0.07 (-0.05 - 0.19)	0.06 (-0.06 - 0.19)	0.07 (-0.06 - 0.19)	0.07 (-0.06 - 0.19)
Intervention (Fiber > Placebo)	0.06 (-0.06 - 0.18)	0.05 (-0.07 - 0.17)	0.06 (-0.06 - 0.18)	0.05 (-0.07 - 0.17)	0.05 (-0.06 - 0.17)	0.05 (-0.07 - 0.17)	0.05 (-0.07 - 0.17)	0.05 (-0.06 - 0.17)
Timepoint * Intervention	-0.01 (-0.18 - 0.16)	-0.00 (-0.18 - 0.17)	-0.01 (-0.18 - 0.17)	-0.00 (-0.18 - 0.17)	-0.01 (-0.17 - 0.16)	-0.00 (-0.18 - 0.17)	-0.00 (-0.18 - 0.17)	-0.00 (-0.18 - 0.17)
Random Effe	zts							
σ2	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46
т ₀₀	0.02 Set	0.02 Set	0.02 Set	0.03 Set	0.02 Set	0.02 Set	0.02 Set	0.03 Set
	0.04 Subject	0.04 Subject	0.05 Subject	0.04 Subject				
T11	0.31 Set CategoryF	0.34 Set CategoryF	0.42 Set CategoryF	0.33 Set CategoryF	0.29 Set CategoryF	0.30 Set CategoryF	0.29 Set CategoryF	0.31 Set CategoryF
	0.03 Subject Company	0.03 Subject Company	0.03 Subject Concerne	0.03 Subject Concerne	0.03 Subject Concerne	0.03 Subject Cottoon E	0.03 Subject Cottoone	0.03 Subject Cottoone
	0.00 Subject to array array total	0.00 Subject to many more total	0.00 Subject to many array total	0.00 Subject to array array total	0.00 Subject to array array total	0.00 Subject to array array total	0.00 Subject langer and total	0.00 Subject to array array total
	0.02 public at Marine and and and	0.02 cubicat Margins automated	0.02 publicat Master saturated	0.02 publicat Musters autorated				
	0.05 c	0.05 c c c c c c c c c c c c c c c c c c c	0.04 c	0.05 c	0.04 c	0.04 c	0.05 c	0.04 c
	2 23 a contract of the second state	2 17 curve of carwaned	2.06 subject waning_catwanted	2 02 a constanting_catwanted	2 10 a subject wanting_catwanted	2.08 a constanting_catwanted	2 16 autor and a subject wanting catwanted	2 18 autor and a state
	0.81	0.79	0.82	0.82 subject.nuA_sub_UP_mean	0.82	0.81	0.81	0.84 subject.nuA_sub_UP_mean
	0.00 Subject.CategoryF:nQA_sub_UF_mean	0.00 Subject.CategoryF:nQA_sub_UF_mean	0.02 Subject.CategoryF:nQA_sub_UF_mean	0.00 Subject.CategoryF:nQA_sub_UF_mean	0.00 Subject.CategoryF:nQA_sub_UF_mean	0.00 Subject.CategoryF:nQA_sub_UF_mean	0.00 Subject.CategoryF:nUA_sub_UF_mean	Subject.CategoryF:nUA_sub_UF_mean
	Subject.hunger_mean_total.nQA_sub_UF_mean	Subject.hunger_mean_total.nQA_sub_UF_mean	Subject.hunger_mean_total.nQA_sub_UF_mean	Subject.hunger_mean_total.nQA_sub_UF_mean	Subject.hunger_mean_total.nQA_sub_UF_mean	Subject.hunger_mean_total.nQA_sub_UF_mean	Subject.hunger_mean_total:nQA_sub_UF_mean	Subject.hunger_mean_total:nQA_sub_UF_mean
	0.50	0.50	0.51	0.50	0.53	0.50	0.50	0.50
	Subject.Wanting_catneutral:nQA_sub_UF_mean							
	1.46 Subject.Wanting catwanted:rQA sub UF mean	1.38 Subject.Wanting catwanted:nQA sub UF mean	1.36 Subject.Wanting catwanted:nQA sub UF mean	1.34 Subject.Wanting catwanted:rQA sub UF mean	1.33 Subject.Wanting catwanted:rQA sub UF mean	1.29 Subject.Wanting catwanted:rQA sub UF mean	1.36 Subject.Wanting catwanted:rQA sub UF mean	1.33 Subject.Wanting catwarted:rQA sub UF mean
P01	,		,	,	,	, , ,	, , ,	, , ,
P01								
ICC	0.40	0.36	0.42	0.41	0.36	0.33	0.33	0.33
N	55 Subject							
	4 sat	4 Set	4 Sat	4 Sat				
Observations	1011	1011	1011	1011	1011	1011	1011	1011
Marginal B2 /	0.218 / 0.416	0.215 / 0.416	0.216 / 0.415	0.216 / 0.416	0.213 / 0.415	0.215 / 0.415	0.212 / 0.416	0.212 / 0.414
Conditional								
R2								



Figure 10-4: Memory performance depending on microstructural coherence of left and right sub-bundle of UF. Actual and predicted A+B) target recognition d' and C+D) lure discrimination LDI depending on normalized quantitative anisotropy (nQA) of the A+C) left and B+D) right sub-bundle of the UF. Points show the actual data and lines with 95%-CI depict predictions based on null models (cf. Table 2, Eq. 27). Neither d' nor LDI were affected by the microstructural coherence of a hemisphere-specific sub-bundle of the UF.



Figure 11-1: Odds ratios of the full model (Table 2, Eq. 31) for the effect of microstructural properties of the UF and covariates on response accuracy. Values indicate the positive (blue) or negative (red) mean estimate of the posterior distribution and whiskers represent the 50% (thick, inner) and 95% (thin, outer) CIs. *The UF neither moderated effects of wanting category nor of subj. hunger level nor of image category on memory accuracy,* nor predicted its microstructural coherence memory accuracy. Only the effect of Gender (M<F) on memory accuracy seemed to be evident as its 95% CI did not include Zero.

Table 11-1: Full and null BLRMs for the moderation effect of the microstructural coherence of the UF on single image wanting regarding response accuracy.

	full model	null model 1	null model 2	null model 3	null model 4	null model 5	null model 6	null model 7
Predictors for response accuracy	Odds Ratios	Odds Ratios	Odds Ratios	Odds Ratios	Odds Ratios	Odds Ratios	Odds Ratios	Odds Ratios
Intercept	5.37 (0.57 – 49.71)	4.09 (0.51 – 32.03)	4.38 (1.47 – 13.11)	4.63 (1.72 – 13.12)	4.55 (2.25 – 9.24)	4.91 (2.44 – 9.82)	4.63 (2.32 – 9.35)	10.79 (5.97 – 19.77)
Category (F > NF)	2.43 (0.86 – 7.54)	2.15 (0.77 – 5.87)	2.10 (0.77 – 6.07)	1.78 (1.38 – 2.29)	1.78 (1.38 – 2.26)	1.82 (1.43 – 2.36)	1.84 (1.43 – 2.35)	
Subj Hunger Level	1.02 (0.68 – 1.51)	0.99 (0.69 - 1.46)	0.98 (0.94 - 1.03)	0.98 (0.94 - 1.02)	0.98 (0.94 - 1.02)	0.99 (0.95 - 1.03)		
Wanting	0.91 (0.70 - 1.19)	1.05 (1.02 – 1.08)	1.05 (1.02 - 1.08)	1.05 (1.02 – 1.08)	1.05 (1.02 – 1.08)			
nQA(UF)	0.54 (0.00 – 1452.38)	1.41 (0.00 – 2458.08)	1.10 (0.06 – 21.77)	0.90 (0.07 – 13.39)				
Normed Complexity	0.47 (0.17 – 1.42)	0.48 (0.17 - 1.38)	0.47 (0.16 – 1.38)	0.47 (0.16 - 1.38)	0.47 (0.16 - 1.24)	0.47 (0.17 - 1.27)	0.49 (0.16 – 1.35)	0.09 (0.04 - 0.20)
Gender (M > F)	0.80 (0.63 - 1.02)	0.80 (0.63 - 1.03)	0.80 (0.64 - 1.02)	0.80 (0.64 - 1.02)	0.80 (0.64 - 1.02)	0.81 (0.65 - 1.02)	0.81 (0.64 – 1.03)	0.81 (0.64 - 1.02)
Age	1.00 (0.98 – 1.02)	1.00 (0.98 – 1.02)	1.00 (0.98 – 1.02)	1.00 (0.98 – 1.02)	1.00 (0.98 – 1.02)	1.00 (0.98 – 1.02)	1.00 (0.98 – 1.02)	1.00 (0.98 – 1.02)
Timepoint (FU > BL)	1.00 (0.91 – 1.10)	1.00 (0.91 – 1.10)	1.00 (0.92 - 1.10)	1.00 (0.92 – 1.10)	1.00 (0.92 – 1.10)	1.00 (0.91 – 1.10)	1.00 (0.91 – 1.09)	1.00 (0.91 – 1.09)
Intervention (Fiber > Placebo)	1.05 (0.96 – 1.15)	1.05 (0.96 – 1.15)	1.05 (0.97 – 1.15)	1.05 (0.97 – 1.15)	1.05 (0.96 – 1.15)	1.05 (0.96 – 1.15)	1.05 (0.96 – 1.15)	1.05 (0.96 – 1.14)
Category (F > NF) * nQA(UF)	0.30 (0.01 – 12.89)	0.52 (0.01 – 18.73)	0.56 (0.01 – 21.40)					
Subj Hunger Level * nQA(UF)	0.87 (0.20 - 4.08)	0.96 (0.22 – 3.95)						
Wanting * nQA(UF)	1.71 (0.64 – 4.41)							
Timepoint * Intervention	0.98 (0.86 - 1.12)	0.99 (0.86 - 1.12)	0.99 (0.86 - 1.12)	0.99 (0.86 - 1.12)	0.99 (0.86 - 1.12)	0.98 (0.86 - 1.12)	0.99 (0.87 - 1.12)	0.99 (0.88 – 1.13)
Random Effec	ets							
σ2	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29
T ₀₀	1.01 Image	1.01 Image	1.01 Image	1.01 Image	1.00 Image	1.00 Image	1.00 Image	1.04 Image
T.,	0.07 Subject	0.07 Subject	0.07 Subject	0.07 Subject	0.07 Subject	0.07 Subject	0.06 Subject	0.08 Subject
'11	0.00 Subject.CategoryF	0.00 Subject.CategoryF 0.00	0.00 Subject.CategoryF	0.00 Subject.CategoryF 0.00	0.00 Subject.CategoryF	0.00 Subject.CategoryF	0.00 Subject.CategoryF	0.00 Subject.CategoryF
	Subject.hunger_mean_total	Subject.hunger_mean_total	Subject.hunger_mean_total	Subject.hunger_mean_total	Subject.hunger_mean_total	Subject.hunger_mean_total	Subject.hunger_mean_total	Subject.hunger_mean_total
	0.00 Subject.Wanting	0.00 Subject.Wanting	0.00 Subject.Wanting	0.00 Subject.Wanting	0.00 Subject.Wanting	0.00 Subject.Wanting	0.00 Subject.Wanting	0.00 Subject.Wanting
	1.97 Subject.nQA_UF_mean	1.78 Subject.nQA_UF_mean	1.70 Subject.nQA_UF_mean	1.76 Subject.nQA_UF_mean	1.73 Subject.nQA_UF_mean	1.85 Subject.nQA_UF_mean	1.72 Subject.nQA_UF_mean	1.90 Subject.nQA_UF_mean
ρ ₀₁								
ρ ₀₁								
ICC	0.27	0.27	0.27	0.27	0.26	0.25	0.25	0.25
N	55 Subject	55 _{Subject}	55 Subject	55 _{Subject}	55 Subject	55 Subject	55 Subject	55 _{Subject}
	640 Image	640 Image	640 Image	640 Image	640 Image	640 Image	640 Image	640 Image
Observations Marginal R ² / Conditional R ²	27764 0.023 / 0.173	27764 0.023 / 0.173	27764 0.023 / 0.173	27764 0.023 / 0.173	27764 0.023 / 0.173	27764 0.021 / 0.173	27764 0.021 / 0.173	27764 0.013 / 0.173

	full model	null model 1	null model 2
Predictors for Response Accuracy	Odds Ratios	Odds Ratios	Odds Ratios
Intercept	2.43 (1.23 – 4.83)	2.52 (1.32 – 5.02)	3.00 (1.48 – 6.23)
Liking	1.07 (1.02 – 1.13)	1.06 (1.02 – 1.10)	
Category (F > NF)	1.96 (1.38 – 2.79)	1.76 (1.39 – 2.27)	1.90 (1.47 – 2.43)
Normed Complexity	1.05 (0.40 – 2.86)	1.05 (0.40 – 2.75)	1.02 (0.38 – 2.61)
Gender (M > F)	0.90 (0.70 – 1.15)	0.91 (0.70 – 1.15)	0.92 (0.70 – 1.19)
Age	1.00 (0.98 – 1.01)	1.00 (0.98 – 1.01)	0.99 (0.97 – 1.01)
Timepoint (FU > BL)	0.92 (0.80 - 1.06)	0.92 (0.80 - 1.06)	0.92 (0.80 – 1.06)
Intervention (Fiber > Placebo)	1.09 (0.94 – 1.25)	1.09 (0.94 – 1.25)	1.09 (0.95 – 1.26)
Liking * Category (F > NF)	0.97 (0.92 - 1.04)		
Timepoint * Intervention	1.05 (0.86 – 1.29)	1.05 (0.86 – 1.28)	1.05 (0.86 – 1.29)
Random Effects			
σ2	3.29	3.29	3.29
т ₀₀	0.22 Image	0.22 Image	0.21 Image
	0.07 Subject	0.07 Subject	0.09 Subject
т ₁₁	0.00 Subject.Liking	0.00 Subject.Liking	0.01 Subject.Liking
	0.06 Subject.CategoryF	0.06 Subject.CategoryF	0.07 Subject.CategoryF
	0.00 Subject.Liking:CategoryF	0.00 Subject.Liking:CategoryF	0.00 Subject.Liking:CategoryF
P01			
ρ ₀₁			
ICC	0.11	0.11	0.10
Ν	43 Subject	43 _{Subject}	43 _{Subject}
	240 _{Image}	240 Image	240 _{Image}
Observations	9136	9136	9136
Marginal R ² / Conditional R ²	0.023 / 0.075	0.022 / 0.074	0.020 / 0.074

Table 12-1: Full and null BLRMs for the effect of single image <u>liking</u> ratings of previously encoded (old) images on response accuracy.

	full model	null model 1	null model 2
Predictors for Response Accuracy	Odds Ratios	Odds Ratios	Odds Ratios
Intercept	2.13 (1.13 – 3.98)	2.21 (1.15 – 4.10)	2.68 (1.41 – 5.15)
Wanting	1.10 (1.05 – 1.15)	1.09 (1.05 – 1.13)	
Category (F > NF)	1.85 (1.38 – 2.55)	1.78 (1.39 – 2.26)	1.81 (1.43 – 2.33)
Normed Complexity	1.08 (0.43 – 2.75)	1.08 (0.42 – 2.80)	1.03 (0.40 – 2.65)
Gender (M > F)	0.87 (0.69 – 1.08)	0.87 (0.69 – 1.09)	0.88 (0.69 – 1.11)
Age	1.00 (0.98 – 1.02)	1.00 (0.98 – 1.02)	1.00 (0.98 – 1.02)
Timepoint (FU > BL)	0.90 (0.78 – 1.03)	0.90 (0.78 – 1.04)	0.90 (0.79 – 1.03)
Intervention (Fiber > Placebo)	1.02 (0.89 – 1.16)	1.02 (0.89 – 1.17)	1.02 (0.90 – 1.17)
Wanting * Category (F > NF)	0.99 (0.93 – 1.05)		
Timepoint * Intervention	1.13 (0.94 – 1.37)	1.13 (0.92 – 1.38)	1.12 (0.93 – 1.36)
Random Effects			
σ2	3.29	3.29	3.29
T ₀₀	0.23 Image	0.23 Image	0.22 Image
	0.09 Subject	0.09 Subject	0.13 Subject
T ₁₁	0.00 Subject.Wanting	0.00 Subject.Wanting	0.01 Subject.Wanting
	0.07 Subject.CategoryF	0.07 Subject.CategoryF	0.08 Subject.CategoryF
	0.00 Subject.Wanting:CategoryF	0.00 Subject.Wanting:CategoryF	0.00 Subject.Wanting:CategoryF
Ρ01	, , , , , , , , , , , , , , , , , , , ,	, , , , , ,	, , ,
ρ ₀₁			
ICC	0.12	0.11	0.11
Ν	56 _{Subject}	56 _{Subject}	56 _{Subject}
	240 Image	240 Image	240 Image
Observations	10658	10658	10658
Marginal R ² / Conditional R ²	0.023 / 0.078	0.023 / 0.078	0.017 / 0.077

Table 12-2: Full and null BLRMs for the effect of single image <u>wanting</u> ratings of previously encoded (old) images on response accuracy.



Figure 13-1: Odds ratios for the effect of calorie content of food images on response accuracy: A) *null model 1 (Table 2, Eq. 39), B) full model 1 (Table 2, Eq. 38). Values indicate the positive (blue) or negative (red) median odds ratio (exponentiated regression coefficients) and whiskers represent the 50% (thick, inner) and 95% (thin, outer) CI. A) Calorie content did evidently predict food memory accuracy (cal4 > cal1). B)* However, the wanting enhancement of memory accuracy was not different between calorie quartiles. In addition, new images were evidently better recognized and the effect of normed complexity and Gender (M<F) seemed to be evident as their 95% CI did not include Zero.

	full model	null model 1	null model 2
Predictors for response accuracy	Odds Ratios	Odds Ratios	Odds Ratios
Intercept	11.22 (5.44 – 22.88)	10.30 (5.30 – 19.79)	11.80 (6.08 – 23.29)
Wanting	1.01 (0.95 – 1.07)	1.03 (1.00 – 1.07)	1.03 (1.00 – 1.07)
Image Status (similar > old)	0.79 (0.54 – 1.16)	0.78 (0.53 – 1.16)	0.79 (0.54 – 1.16)
Image Status (new > old)	6.10 (3.98 – 9.86)	6.08 (4.00 – 9.56)	6.08 (3.99 – 9.67)
Calorie Quartile (cal2 > cal1)	0.99 (0.63 – 1.53)	1.08 (0.79 – 1.48)	
Calorie Quartile (cal3 > cal1)	1.13 (0.74 – 1.73)	1.28 (0.95 – 1.77)	
Calorie Quartile (cal4 > cal1)	1.18 (0.76 – 1.84)	1.38 (1.01 – 1.89)	
Normed Complexity	0.13 (0.03 – 0.47)	0.13 (0.03 – 0.49)	0.14 (0.04 – 0.54)
Gender (M > F)	0.68 (0.53 – 0.87)	0.68 (0.53 – 0.87)	0.68 (0.53 – 0.87)
Age	0.99 (0.97 – 1.01)	0.99 (0.98 – 1.01)	0.99 (0.98 – 1.01)
Timepoint (FU > BL)	1.02 (0.88 – 1.17)	1.02 (0.88 – 1.17)	1.02 (0.88 – 1.17)
Intervention (Fiber > Placebo)	1.11 (0.97 – 1.27)	1.11 (0.96 – 1.26)	1.11 (0.96 – 1.27)
Wanting * Calorie Quartile (cal2 > cal1)	1.02 (0.95 – 1.10)		
Wanting * Calorie Quartile (cal3 > cal1)	1.03 (0.96 – 1.11)		
Wanting * Calorie Quartile (cal4 > cal1)	1.04 (0.96 – 1.14)		
Timepoint * Intervention	0.95 (0.78 – 1.16)	0.95 (0.78 – 1.16)	0.95 (0.78 – 1.15)
Random Effects			
σ2	3.29	3.29	3.29
T ₀₀	0.70 Image	0.70 Image	0.71 Image
	0.29 Subject	0.28 Subject	0.29 Subject
T ₁₁	0.00 Subject.Wanting	0.00 Subject.Wanting	0.00 Subject.Wanting
	1.23 Subject.Statussimilar	1.21 Subject.Statussimilar	1.22 Subject.Statussimilar
	1.13 Subject.Statusnew	1.11 Subject.Statusnew	1.13 Subject.Statusnew
	0.11 Subject.Typecal2	0.11 Subject.Typecal2	0.11 Subject.Typecal2
	0.09 Subject.Typecal3	0.09 Subject.Typecal3	0.09 Subject.Typecal3
	0.03 Subject.Typecal4	0.03 Subject.Typecal4	0.03 Subject. Typecal4
ρ ₀₁			
ρ ₀₁			
ICC	0.30	0.30	0.30
Ν	56 _{Subject}	56 _{Subject}	56 _{Subject}
	320 Image	320 Image	320 Image
Observations	14213	14213	14213
Marginal R ² / Conditional R ²	0.043 / 0.206	0.043 / 0.205	0.039 / 0.205

Table 13-1: Full and null BLRMs for the effect of calorie content on food memory accuracy.

	full model	null model 1	null model 2	null model 3
Predictors for d'	Estimates	Estimates	Estimates	Estimates
Intercept	2.16 (1.18 – 3.00)	2.07 (1.44 – 2.66)	2.27 (1.81 – 2.73)	1.85 (1.42 – 2.26)
Neuroticism	-0.22 (-0.91 – 0.51)	-0.14 (-0.42 – 0.15)	-0.26 (-0.42 – -0.10)	
Gender (M > F)	-0.05 (-0.49 – 0.43)	-0.06 (-0.48 – 0.37)	-0.26 (-0.44 – -0.08)	-0.24 (-0.44 – -0.05)
Age	-0.01 (-0.04 – 0.02)	-0.01 (-0.02 – 0.01)	-0.01 (-0.02 – 0.00)	-0.01 (-0.02 – 0.01)
Neuroticism * Gender (M > F)	-0.20 (-0.58 – 0.18)	-0.18 (-0.52 – 0.16)		
Neuroticism * Age	0.00 (-0.02 – 0.03)			
Random Effects				
σ2	0.08	0.08	0.08	0.08
т _{оо}	0.05 _{Subject}	0.04 _{Subject}	0.03 _{Subject}	0.11 Subject
T ₁₁	0.07 Subject.neuroticism	0.06 Subject.neuroticism	0.05 Subject.neuroticism	0.11 Subject.neuroticism
ρ ₀₁				
ρ ₀₁				
ICC	0.57	0.57	0.57	0.59
Ν	56 _{Subject}	56 _{Subject}	56 _{Subject}	56 _{Subject}
Observations	180	180	180	180
Marginal R ² / Conditional R ²	0.238 / 0.641	0.232 / 0.641	0.197 / 0.640	0.092 / 0.635

Table 15-1: Full and null BLRMs for the effect of neuroticism on d'.

Table 15-2: Full and null BLRMs for the effect of neuroticism on LDI.

	full model	null model 1	null model 2	null model 3
Predictors for LDI	Estimates	Estimates	Estimates	Estimates
Intercept	1.72 (0.72 – 2.67)	1.77 (1.12 – 2.38)	1.91 (1.43 – 2.39)	1.58 (1.14 – 2.00)
Neuroticism	-0.08 (-0.83 – 0.67)	-0.13 (-0.42 – 0.17)	-0.21 (-0.38 – -0.04)	
Gender (M > F)	-0.16 (-0.59 – 0.34)	-0.15 (-0.59 – 0.33)	-0.29 (-0.47 – -0.11)	-0.27 (-0.47 – -0.08)
Age	-0.01 (-0.04 - 0.02)	-0.01 (-0.02 – 0.01)	-0.01 (-0.02 – 0.00)	-0.01 (-0.02 – 0.01)
Neuroticism * Gender (M > F)	-0.12 (-0.53 – 0.27)	-0.12 (-0.50 – 0.23)		
Neuroticism * Age	-0.00 (-0.03 – 0.02)			
Random Effects				
σ2	0.09	0.09	0.09	0.09
T ₀₀	0.05 _{Subject}	0.05 _{Subject}	0.04 _{Subject}	0.09 _{Subject}
T ₁₁	0.07 Subject.neuroticism	0.07 Subject.neuroticism	0.06 Subject.neuroticism	0.10 Subject.neuroticism
ρ ₀₁				
ρ ₀₁				
ICC	0.53	0.52	0.52	0.48
Ν	56 _{Subject}	56 _{Subject}	56 _{Subject}	56 _{Subject}
Observations	180	180	180	180
Marginal R ² / Conditional R ²	0.205 / 0.592	0.199 / 0.591	0.176 / 0.590	0.106 / 0.586

	full model	null model 1	null model 2	null model 3	null model 4
Predictors for nQA(UF)	Estimates	Estimates	Estimates	Estimates	Estimates
Intercept	0.27 (0.23 – 0.30)	0.27 (0.23 – 0.30)	0.29 (0.26 – 0.31)	0.27 (0.26 – 0.28)	0.27 (0.27 – 0.28)
Gender (M>F)	0.04 (-0.01 - 0.09)	0.04 (-0.00 – 0.09)	0.01 (-0.00 – 0.02)	0.01 (-0.00 – 0.02)	
Age	0.00 (-0.00 - 0.00)	-0.00 (-0.00 – 0.00)	-0.00 (-0.00 – 0.00)		
Timepoint (FU > BL)	-0.00 (-0.01 – 0.00)	0.00 (-0.00 – 0.01)	-0.00 (-0.01 – 0.00)	0.00 (-0.00 – 0.01)	0.00 (-0.00 – 0.01)
Intervention (Fiber > Placebo)	-0.00 (-0.01 – 0.00)	0.00 (-0.00 – 0.00)	-0.00 (-0.01 – 0.00)	-0.00 (-0.00 – 0.00)	-0.00 (-0.00 - 0.00)
Gender (M>F) * Age	-0.00 (-0.00 – 0.00)	-0.00 (-0.00 – 0.00)			
Timepoint * Intervention	0.01 (-0.00 – 0.01)		0.01 (-0.00 – 0.01)		
Random Effects					
σ2	0.00	0.00	0.00	0.00	0.00
т ₀₀	0.00 _{Subject}	0.00 Subject	0.00 Subject	0.00 Subject	0.00 Subject
T ₁₁	0.00 Subject.Timepoint_shortFU	0.00 Subject.Timepoint_shortFU	0.00 Subject.Timepoint_shortFU	0.00 Subject.Timepoint_shortFU	0.00 Subject.Timepoint_shortFU
	0.00 Subject.InterventionB	0.00 Subject.InterventionB	0.00 Subject.InterventionB	0.00 Subject.InterventionB	0.00 Subject.InterventionB
ρ ₀₁					
ρ ₀₁					
ICC	0.69	0.68	0.69	0.70	0.70
Ν	55 _{Subject}	55 _{Subject}	55 _{Subject}	55 _{Subject}	55 _{Subject}
Observations	176	176	176	176	176
Marginal R2 / Conditional R2	0.112 / 0.682	0.108 / 0.675	0.084 / 0.679	0.027 / 0.677	0.004 / 0.673
A _{0.35}	β (Age)	= 0.00 [-0.00, 0.00]	Ββ	(Gender) = 0.01 [-0.00, 0.0	02]
UDV (whole prain)		• •	0.32 Whole brain) 0.28 0.24		Gender • F • M

Table 16-1: Full and null BLRMs for the effect of age and gender on microstructural coherence of the UF.

AgeGenderFigure 16-1: Microstructural coherence of whole brain depending on age and gender. Actual and predicted
microstructural coherence of the whole brain, reflected in its nQA value, A) by age and B) by gender. Points show
actual data of the colour-coded subjects. A) Prediction line with 95%-CI is based on null model 2 (Table 2, Eq. 47). B)
Violin and boxplots present the distribution of the nQA values over both genders. Neither age nor gender predicted the

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microstructural coherence of the UF.

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0.20