DISEMBODIED BRAINS:

Understanding our Intuitions on Neuro-Chimeras and Human-Brain Organoids

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ONLINE STATISTICAL TABLES

Table 1: Descriptive Statistics. Weighted Means, Standard Errors and Range

Variables	Mean	SE	Minimum	Maximum
Religious Identity Measures				
Catholic	.132	.011	0	1
Conservative Protestant	.218	.013	0	1
T'1 1D	0.50	007		1
Liberal Protestant	.050	.007	0	1
Other Religion	.071	.007	0	1
o mer rengion	.071	.007	V	1
Identity-Rejecting Protestant	.080	.010	0	1
Low Commitment Christian	.233	.014	0	1
Low Communion Christian	.233	.011	V	1
Non-Religious	.215	.012	0	1
Theological Beliefs				
Humans in Image of God	243	.042	-4	4
Creatures Not Co-Creators	3.07	.056	1	5
Kingdom Not Via Humans	3.02	.051	1	5
Humans Have Dominion	1.21	.017	1	2
<u>Demographic Measures</u>				
Female	.490	.016	0	1
Education Category	3.02	.042	1	5
Age	48.6	.042	18	93
African American	.130	.012	0	1
			-	
Latino/a American	.185	.015	0	1

.075	.008	0	1
.571	.016	0	1
.246	.013	0	1
200	01.5		1
.380	.015	0	1
.373	.015	0	1
3.69	.031	1	5
10.1	.078	3	14
1.41	.012	.45	2
2.24	0.40	1	7
3.34	.040	1	5
5.96	.074	2	10
3.17	.025	1	4
3.54	.035	1	5
2.39	.039	1	5
		- -	
	.571 .246 .380 .373 3.69 10.1 1.41 3.34 5.96	.571 .016 .246 .013 .380 .015 .373 .015 3.69 .031 10.1 .078 1.41 .012 3.34 .040 5.96 .074 3.17 .025 3.54 .035	.571 .016 0 .246 .013 0 .380 .015 0 .373 .015 0 3.69 .031 1 10.1 .078 3 1.41 .012 .45 3.34 .040 1 5.96 .074 2 3.17 .025 1 3.54 .035 1

Table 2: Ordered Logit Coefficients HBO Research

Variables	Approve of HBO Research	OK to Destroy HBO
HBO 5 Inches	0.0392	0.00931
	(0.111)	(0.108)
HBO Manufactured	-0.227*	-0.0383
	(0.111)	(0.108)
Made 10,000 HBOs	0.0919	0.0496
	(0.112)	(0.109)
HBO is Aware of Self	0.213#	-0.0215
	(0.112)	(0.108)
Consciousness of Insect	-0.0575	-0.00903
	(0.161)	(0.158)
Consciousness of Pig	-0.255	-0.102
	(0.163)	(0.158)
Consciousness of Fetus	-0.0783 ^*1	0.0888
	(0.158)	(0.153)
/cut1	-3.153***	-3.252***
	(0.198)	(0.203)
/cut2	-2.357***	-1.891***
	(0.172)	(0.163)
/cut3	-0.866***	-0.245
	(0.161)	(0.154)
/cut4	0.916***	0.961***
	(0.162)	(0.157)
Constant		
Observations	2093	2091
Pseudo R-squared or R-squared	.004	.001
1		

Notes: ***= p<.001, **=p<.01, *=p<.05, #=p<.10 in ordered logistic model. ^ = Significant only in a generalized ordered logistic model, with the number following the ^ indicating the category of the dependent variable where the binary effect begins.

Table 3: Ordered Logit Coefficients Predicting Approval of NC Research

Variables	Ordered	Ordered	Ordered	Standardized
	Logit	Logit	Logit	Effect Size
Religious Identity Measures				
Catholic	-0.0873	0.0466	-0.0754	01
	(0.184)	(0.186)	(0.208)	
Conservative Protestant	-0.226	0.0547	0.0404	.01
	(0.165)	(0.184)	(0.215)	
Liberal Protestant	0.252 ^*3	0.476	0.00192	.00
	(0.278)	(0.286)	(0.348)	
Other Religion	0.134		-0.0153	00
	(0.195)		(0.204)	
Identity-Rejecting Protestant	-0.342	-0.132	-0.212	03
	(0.237)	(0.329)	(0.257)	
Low Commitment Christian	-0.0830 ^**4		-0.0655 ^*4	01
	(0.157)		(0.169)	
Theological Beliefs				
Humans in Image of God		-0.243***	-0.107*	07
		(0.0665)	(0.0498)	
Creatures Not Co-Creators		0.0302		
		(0.0536)		
Kingdom Not Via Humans		-0.183**		
		(0.0571)		
Humans Have Dominion		0.499**		
		(0.156)		
Demographic Measures				
Female			-0.227	05
			(0.117)	
Education			-0.0378 ^*2	02
			(0.0578)	
Age			0.00106	.01
			^**2	
			(0.00359)	
African American			0.0403	.01
			(0.195)	
Latino/a American			-0.201	04
			(0.209)	
Asian American			-0.139	07
			(0.216)	
Expanded Cultural Authority of				
Science				
Republican			-0.0412	01
			(0.156)	

Independent			-0.124	03
•			(0.141)	
Self-assessed Scientific			0.148*	.07
Knowledge				
			(0.0691)	
Scientism			0.171***	.20
			(0.0360)	
Shared Morals and Trust			0.652**	.11
Scientists				
			(0.241)	
Orientation Toward Nature				
Nature Should Be Mysterious			-0.335***	20
•			(0.0567)	
Humans Dominion Over Nature			0.234***	.26
			(0.0315)	
Species Have Their Own			-0.340***	13
Purpose			(0.0770)	
Foundational Distinction				
Humans/Animals				
Humans/Animals Are Similar			.167*	.09
			(0.0681)	
Chimp With Human Brain Is			0.107 ^*1,2	.06
Human			(0.0571)	
Cutpoint 1	-1.794***	-1.521***	0.840	
	(0.129)	(0.350)	(0.593)	
Cutpoint 2	-0.780***	-0.483	2.111***	
	(0.117)	(0.342)	(0.595)	
Cutpoint 3	0.317**	0.559	3.397***	
	(0.117)	(0.342)	(0.605)	
Cutpoint 4	1.925***	2.378***	5.357***	
	(0.146)	(0.358)	(0.616)	
N	2,088	1,281	1910	
Pseudo-R squared	.014	.020	.103	

Notes: ***= p<.001, **=p<.01, *=p<.05, #=p<.10 in ordered logistic model. ^ = Significant only in a generalized ordered logistic model, with the number following the ^ indicating the category of the dependent variable where the binary effect begins. Reference categories are: for religious identity the non-religious, for race White, for party identification democrat.

Table 4: Ordered Logit Coefficients for Vignette Factors, NC Research

Variables	Approve of NC	Not Much	Treat Better	With Enough
	Research	Difference	than Other	Qualities, Same
		With	Animals	Importance as
		Human		Human
Monkey (ref category mouse)	-0.605***	0.198#	-0.198^**1,2	0.339**
	(0.108)	(0.110)	(0.113)	(0.108)
New Species	-0.314**	-0.129	-0.190#	-0.110
	(0.107)	(0.110)	(0.112)	(0.109)
Modify: implant brain tissue	-0.346*	-0.307*	-0.202	-0.0495
	(0.136)	(0.155)	(0.153)	(0.157)
Modify: genetically related brain	-0.218 **^1,2	-0.143	-0.148	0.0957^*4
	(0.147)	(0.155)	(0.159)	(0.155)
Modify: move like human	-0.362*	-0.343*	-0.254#	-0.00844
	(0.147)	(0.159)	(0.152)	(0.158)
Named: Chimera	0.299*	0.0431	0.207^*3	0.157
	(0.130)	(0.133)	(0.142)	(0.133)
Named: Cebir	0.367**	0.295*	0.125	0.344**
	(0.133)	(0.133)	(0.132)	(0.132)
/cut1	-2.211***	-0.901***	-1.746***	-0.733***
	(0.145)	(0.160)	(0.160)	(0.159)
/cut2	-1.162***	0.140	-0.891***	0.138
	(0.137)	(0.159)	(0.154)	(0.158)
/cut3	-0.0205	1.469***	0.941***	1.377***
	(0.136)	(0.169)	(0.158)	(0.166)
/cut4	1.619***	3.163***	2.366***	2.873***
	(0.153)	(0.219)	(0.181)	(0.190)
Observations	2,093	2,091	2,091	2,092
Pseudo R-squared	.012	.005	.004	.005

Notes: ***= p<.001, **=p<.01, *=p<.05, #=p<.10. ^ = Significant only in a generalized ordered logistic model, with the number following the ^ indicating the category of the dependent variable where the binary effect begins.

Table 5: Ordered Logit Coefficients: Treatment of HBOs and NCs

Variables	OK to	HBO with	OK to	HBO with
	Destroy	Human	Destroy	Human Traits
	HBOs	Traits Treat	HBOs	Treat More
		More Like		Like Human
		Human		
HBO is Extension of Cell Donor	-0.277***	0.992***		
	(0.0635)	(0.0751)		
HBO Has Thoughts of Cell Donor			-0.0872^*4	0.433***
			(0.0640)	(0.0668)
Approve of HBO Research	0.676***	0.0360	0.639***	0.130
	(0.0894)	(0.0748)	(0.0920)	(0.0797)
Religious Identity Measures				
Catholic	-0.0169	0.503*	-0.0531	0.566**
	(0.224)	(0.214)	(0.227)	(0.215)
Conservative Protestant	-0.118	0.362	-0.170	0.517*
	(0.210)	(0.205)	(0.212)	(0.201)
Liberal Protestant	0.00702	0.505*	-0.0487	0.649*
	(0.340)	(0.243)	(0.331)	(0.266)
Other Religion	-0.243	0.244	-0.279	0.254
	(0.195)	(0.193)	(0.196)	(0.181)
Identity-Rejecting Protestant	0.195	0.0600	0.105	0.324
	(0.270)	(0.288)	(0.279)	(0.300)
Low Commitment Christian	0.0621	0.0668	0.0116	0.162
	(0.183)	(0.161)	(0.185)	(0.168)
Theological Beliefs				
Humans in Image of God	-0.127*	-0.0438	-0.143**	0.00319
	(0.0525)	(0.0512)	(0.0523)	(0.0546)
Demographic Measures				
Female	0.183	-0.0244	0.157	0.0379
	(0.125)	(0.119)	(0.124)	(0.120)
Education	-0.0421^*2	-0.0579^*2	-0.0212	-0.0934^*2,4
	(0.0604)	(0.0530)	(0.0613)	(0.0599)
Age	0.0155***	-0.0130**	0.0170***	-0.0163***
	(0.00402)	(0.00413)	(0.00389)	(0.00388)
African American	0.205	0.138	0.164	0.314
	(0.233)	(0.219)	(0.230)	(0.226)
Latino/a American	-0.0599	0.264^**1,2	-0.0275	0.0709^**2
	(0.192)	(0.162)	(0.195)	(0.167)
Asian American	-0.294	0.458*	-0.288	0.435*
	(0.189)	(0.228)	(0.189)	(0.222)

Expanded Cultural Authority of				
Science				
Republican	0.0607	-0.504**	0.0939	-0.530**
•	(0.167)	(0.161)	(0.168)	(0.164)
Independent	-0.171	0.00210	-0.192	0.122
•	(0.153)	(0.141)	(0.151)	(0.143)
Self-assessed Scientific	0.196**	-	0.199**	-0.0605
Knowledge		0.0456^**1,2		
	(0.0714)	(0.0675)	(0.0730)	(0.0678)
Scientism	0.0391	0.0654	0.0242	0.105**
	(0.0420)	(0.0407)	(0.0419)	(0.0392)
Shared Morals and Trust	-0.126	-0.140	-0.114	-0.181
Scientists				
	(0.268)	(0.281)	(0.272)	(0.282)
Orientation Toward Nature				
Nature Should Be Mysterious	0.133*	-0.0579	0.115*	-0.0335
,	(0.0589)	(0.0567)	(0.0572)	(0.0564)
Humans Dominion Over	0.0292	0.0448	0.0221	0.0465
Nature				
	(0.0300)	(0.0285)	(0.0293)	(0.0307)
Species Have Their Own	0.0395	-0.0145	0.00168	0.0615
Purpose				
	(0.0853)	(0.0757)	(0.0845)	(0.0781)
Foundational Distinction				
Humans/Animals				
Humans/Animals Are Similar	-0.0104	0.0365	-0.0322	0.0796
	(0.0671)	(0.0602)	(0.0666)	(0.0627)
Chimp With Human Brain Is	-0.149*	0.304***	-0.164**	0.324***
Human				
	(0.0601)	(0.0558)	(0.0611)	(0.0576)
Cutpoint 1	0.0791	1.226	0.207	0.850
*	(0.675)	(0.650)	(0.694)	(0.684)
Cutpoint 2	1.612*	2.590***	1.736*	1.992**
•	(0.665)	(0.655)	(0.679)	(0.686)
Cutpoint 3	3.398***	4.574***	3.504***	3.708***
	(0.676)	(0.672)	(0.690)	(0.695)
Cutpoint 4	4.803***	6.630***	4.882***	5.581***
	(0.692)	(0.708)	(0.706)	(0.726)
	(0.072)	(0.700)	(0.700)	(0.720)
N	1,907	1904	1,908	1,904
Pseudo-R squared	.065	.162	.058	.093
Notes: ***- n		10.2		noralized ordered

Notes: ***= p < .001, **=p < .01, *=p < .05, #=p < .00. *=p < .00 in a generalized ordered logistic model, with the number following the ^ indicating the category of the dependent variable

where the binary effect begins. Reference categories are: for religious identity the non-religious, for race White, for party identification democrat.

Table 6: Ordered Logit Coefficients Predicting Approval of HBO Research

Variables	Ordered	Ordered	Ordered Logit	Standardized
	Logit	Logit		Effect Size
Religious Identity Measures				
Catholic	-0.412*	0.00586	-0.402#	06
	(0.176)	(0.192)	(0.229)	
Conservative Protestant	-0.721***	-0.131	-0.128	03
	(0.166)	(0.191)	(0.216)	
Liberal Protestant	0.300	0.786**	0.106	.01
	(0.272)	(0.296)	(0.319)	
Other Religion	-0.185		-0.419*	05
	(0.196)		(0.210)	
Identity-Rejecting Protestant	-1.116***	-0.529	-0.862**	11
	(0.263)	(0.358)	(0.294)	
Low Commitment Christian	-0.455**		-0.368*	07
	(0.156)		(0.175)	
Theological Beliefs				
Humans in Image of God		-0.172*	-0.0222 **^2	02
		(0.0724)	(0.0510)	
Creatures Not Co-Creators		-0.0191		
		^*1,2		
		(0.0558)		
Kingdom Not Via Humans		-0.196**		
		(0.0651)		
Humans Have Dominion		0.163		
		(0.151)		
Demographic Measures				
Female			-0.0665	02
			(0.128)	
Education			0.00206	.00
			(0.0624)	
Age			0.00680 **^3	.06
			(0.00429)	
African American			-0.0927	02
			(0.207)	
Latino/a American			0.0325	.01
			(0.194)	
Asian American			0.0754	.01
			(0.280)	
Expanded Cultural Authority of				
Science				
Republican			-0.163	03
			(0.161)	

Independent			0.111	.03
			(0.151)	
Self-assessed Scientific			0.0585	.03
Knowledge				
			(0.0776)	
Scientism			0.183***	.21
			(0.0414)	
Shared Morals and Trust			0.974***	.17
Scientists				
			(0.282)	
Orientation Toward Nature				
Nature Should Be Mysterious			-0.340***	20
•			(0.0598)	
Humans Dominion Over Nature			0.0595#	.07
			(0.0314)	
Species Have Their Own Purpose			0.0963 *^2	.04
•			(0.0868)	
Foundational Distinction				
Humans/Animals				
Humans/Animals Are Similar			0.228***	.12
			(0.0689)	
Chimp With Human Brain Is			0.0520	.03
Human				
			(0.0599)	
Cutpoint 1	-3.569***	-3.580***	0.200	
•	(0.180)	(0.356)	(0.679)	
Cutpoint 2	-2.771***	-2.711***	1.146	
•	(0.139)	(0.350)	(0.678)	
Cutpoint 3	-1.262***	-1.234***	2.821***	
•	(0.113)	(0.339)	(0.679)	
Cutpoint 4	0.564***	0.576	5.026***	
•	(0.108)	(0.338)	(0.694)	
N	2,088	1,281	1,910	
Pseudo-R squared				

Notes: ***= p<.001, **=p<.01, *=p<.05, #=p<.10. ^= Significant only in a generalized ordered logistic model, with the number following the ^ indicating the category of the dependent variable where the binary effect begins. Reference categories are: for religious identity the non-religious, for race White, for party identification democrat.

Table 7: OLS Coefficients: Belief in Ephemeral Connections with HBOs

Variables	Belief in Ephemeral Connection
	Between HBO and Human
Religious Identity Measures	
Catholic	0.522*
	(0.212)
Conservative Protestant	0.443*
	(0.191)
Liberal Protestant	0.222
	(0.257)
Other Religion	0.597**
	(0.193)
Identity-Rejecting Protestant	0.750*
	(0.308)
Low Commitment Christian	0.431*
	(0.180)
Theological Beliefs	
Humans in Image of God	0.119*
	(0.0572)
Demographic Measures	
Female	0.165
	(0.114)
Education	-0.159**
	(0.0509)
Age	-0.0115**
	(0.00366)
African American	0.284
	(0.197)
Latino/a American	-0.318
	(0.173)
Asian American	-0.242
	(0.200)
Expanded Cultural Authority of Science	
Republican	-0.256
	(0.160)
Independent	-0.00939
,	(0.138)
Self-assessed Scientific Knowledge	-0.0697
5	(0.0635)
Scientism	0.101**
	(0.0378)
Shared Morals and Trust Scientists	0.115
	(0.242)

Orientation Toward Nature	
Nature Should Be Mysterious	0.175**
	(0.0536)
Humans Dominion Over Nature	0.0942***
	(0.0283)
Species Have Their Own Purpose	0.106
	(0.0686)
Foundational Distinction Humans/Animals	
Humans/Animals Are Similar	0.115*
	(0.0565)
Chimp With Human Brain Is Human	0.369***
	(0.0545)
Constant	3.251***
	(0.559)
N	1907
R-squared	.209

Notes: ***= p<.001, **=p<.01, *=p<.05, #=p<.10 Reference categories are: for religious identity the non-religious, for race White, for party identification democrat.