

Figure 2, Figure 3, and Figure Supp2

Figure 2D, Supp 2C, Supp 2D (Silhouette value),

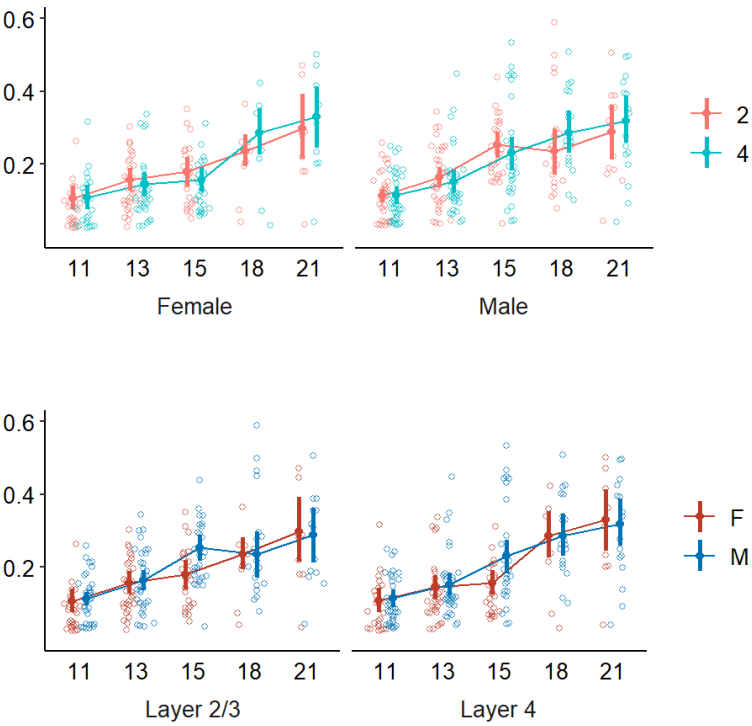


Table: ANOVA table before bootstrapping

	F	Df	Df.res	Pr(>F)
(Intercept)	26.995	1	93.297	0.000
f.age	12.500	4	383.152	0.000
sex	0.174	1	69.332	0.678
f.layer	0.024	1	360.501	0.877
f.age:sex	3.429	4	393.426	0.009
f.age:f.layer	2.544	4	364.394	0.039

Table: Main effect after bootstrapping

Parameter	Median	Mean	CI	CI_low	CI_high	pd	pval
f.age11 - f.age13	-0.044	-0.044	0.95	-0.065	-0.026	1.000	0.000
f.age11 - f.age15	-0.093	-0.094	0.95	-0.122	-0.072	1.000	0.000
f.age11 - f.age18	-0.150	-0.150	0.95	-0.188	-0.114	1.000	0.000
f.age11 - f.age21	-0.199	-0.201	0.95	-0.262	-0.152	1.000	0.000
f.age13 - f.age15	-0.050	-0.050	0.95	-0.074	-0.028	1.000	0.000
f.age13 - f.age18	-0.106	-0.106	0.95	-0.143	-0.069	1.000	0.000
f.age13 - f.age21	-0.155	-0.156	0.95	-0.214	-0.109	1.000	0.000
f.age15 - f.age18	-0.056	-0.056	0.95	-0.094	-0.022	1.000	0.000
f.age15 - f.age21	-0.104	-0.106	0.95	-0.169	-0.060	1.000	0.000
f.age18 - f.age21	-0.048	-0.050	0.95	-0.100	-0.011	0.994	0.012

Parameter	Median	Mean	CI	CI_low	CI_high	pd	pval
F - M	-0.015	-0.015	0.95	-0.054	0.027	0.768	0.463

Parameter	Median	Mean	CI	CI_low	CI_high	pd	pval
f.layer2 - f.layer4	-0.01	-0.01	0.95	-0.029	0.009	0.839	0.323

Table: Post-hoc comparison with bootstrapping output

Parameter	Median	Mean	Mean.1	CI	CI_low	CI_high	pd	pval
:-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:
f.age11 - f.age13, F, 2	-0.050	-0.051	-0.051	0.95	-0.082	-0.021	0.999	0.002
f.age11 - f.age15, F, 2	-0.073	-0.073	-0.073	0.95	-0.115	-0.039	1.000	0.000
f.age11 - f.age18, F, 2	-0.128	-0.129	-0.129	0.95	-0.170	-0.094	1.000	0.000
f.age11 - f.age21, F, 2	-0.190	-0.195	-0.195	0.95	-0.303	-0.113	1.000	0.000
f.age13 - f.age15, F, 2	-0.022	-0.023	-0.023	0.95	-0.063	0.013	0.892	0.216
f.age13 - f.age18, F, 2	-0.078	-0.079	-0.079	0.95	-0.119	-0.041	1.000	0.000
f.age13 - f.age21, F, 2	-0.140	-0.144	-0.144	0.95	-0.240	-0.070	1.000	0.000
f.age15 - f.age18, F, 2	-0.054	-0.056	-0.056	0.95	-0.106	-0.017	0.998	0.003
f.age15 - f.age21, F, 2	-0.115	-0.121	-0.121	0.95	-0.231	-0.050	1.000	0.000
f.age18 - f.age21, F, 2	-0.064	-0.065	-0.065	0.95	-0.155	0.020	0.936	0.127
f.age11 - f.age13, M, 2	-0.052	-0.052	-0.052	0.95	-0.081	-0.026	1.000	0.000
f.age11 - f.age15, M, 2	-0.140	-0.142	-0.142	0.95	-0.180	-0.110	1.000	0.000
f.age11 - f.age18, M, 2	-0.123	-0.123	-0.123	0.95	-0.193	-0.051	1.000	0.000
f.age11 - f.age21, M, 2	-0.176	-0.178	-0.178	0.95	-0.265	-0.101	1.000	0.000
f.age13 - f.age15, M, 2	-0.089	-0.089	-0.089	0.95	-0.129	-0.053	1.000	0.000
f.age13 - f.age18, M, 2	-0.071	-0.070	-0.070	0.95	-0.138	0.000	0.974	0.052
f.age13 - f.age21, M, 2	-0.124	-0.125	-0.125	0.95	-0.207	-0.049	1.000	0.000
f.age15 - f.age18, M, 2	0.018	0.019	0.019	0.95	-0.048	0.088	0.705	0.589
f.age15 - f.age21, M, 2	-0.035	-0.036	-0.036	0.95	-0.125	0.047	0.794	0.412
f.age18 - f.age21, M, 2	-0.053	-0.055	-0.055	0.95	-0.126	0.010	0.950	0.100
f.age11 - f.age13, F, 4	-0.036	-0.036	-0.036	0.95	-0.067	-0.010	0.996	0.007
f.age11 - f.age15, F, 4	-0.046	-0.047	-0.047	0.95	-0.083	-0.018	0.999	0.001
f.age11 - f.age18, F, 4	-0.177	-0.178	-0.178	0.95	-0.234	-0.124	1.000	0.000
f.age11 - f.age21, F, 4	-0.220	-0.224	-0.224	0.95	-0.321	-0.149	1.000	0.000
f.age13 - f.age15, F, 4	-0.011	-0.011	-0.011	0.95	-0.042	0.021	0.756	0.487
f.age13 - f.age18, F, 4	-0.141	-0.142	-0.142	0.95	-0.199	-0.087	1.000	0.000
f.age13 - f.age21, F, 4	-0.184	-0.187	-0.187	0.95	-0.277	-0.118	1.000	0.000
f.age15 - f.age18, F, 4	-0.130	-0.131	-0.131	0.95	-0.191	-0.077	1.000	0.000
f.age15 - f.age21, F, 4	-0.172	-0.176	-0.176	0.95	-0.273	-0.106	1.000	0.000
f.age18 - f.age21, F, 4	-0.044	-0.045	-0.045	0.95	-0.117	0.017	0.934	0.131
f.age11 - f.age13, M, 4	-0.037	-0.038	-0.038	0.95	-0.080	-0.002	0.980	0.040
f.age11 - f.age15, M, 4	-0.113	-0.115	-0.115	0.95	-0.173	-0.067	1.000	0.000
f.age11 - f.age18, M, 4	-0.171	-0.171	-0.171	0.95	-0.234	-0.109	1.000	0.000
f.age11 - f.age21, M, 4	-0.205	-0.207	-0.207	0.95	-0.281	-0.141	1.000	0.000
f.age13 - f.age15, M, 4	-0.077	-0.077	-0.077	0.95	-0.125	-0.032	1.000	0.001
f.age13 - f.age18, M, 4	-0.134	-0.134	-0.134	0.95	-0.201	-0.064	1.000	0.000
f.age13 - f.age21, M, 4	-0.168	-0.169	-0.169	0.95	-0.242	-0.097	1.000	0.000
f.age15 - f.age18, M, 4	-0.055	-0.056	-0.056	0.95	-0.128	0.011	0.946	0.107
f.age15 - f.age21, M, 4	-0.089	-0.091	-0.091	0.95	-0.173	-0.026	0.997	0.005
f.age18 - f.age21, M, 4	-0.031	-0.035	-0.035	0.95	-0.115	0.022	0.853	0.295

Parameter	Median	Mean	Mean.1	CI	CI_low	CI_high	pd	pval
:-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:
M - F, 2, 11	0.006	0.006	0.006	0.95	-0.032	0.041	0.631	0.738
M - F, 4, 11	0.006	0.006	0.006	0.95	-0.032	0.041	0.631	0.738
M - F, 2, 13	0.007	0.007	0.007	0.95	-0.032	0.045	0.644	0.712
M - F, 4, 13	0.007	0.007	0.007	0.95	-0.032	0.045	0.644	0.712
M - F, 2, 15	0.074	0.074	0.074	0.95	0.022	0.123	0.997	0.006
M - F, 4, 15	0.074	0.074	0.074	0.95	0.022	0.123	0.997	0.006
M - F, 2, 18	0.000	-0.001	-0.001	0.95	-0.075	0.069	0.502	0.997
M - F, 4, 18	0.000	-0.001	-0.001	0.95	-0.075	0.069	0.502	0.997
M - F, 2, 21	-0.009	-0.011	-0.011	0.95	-0.124	0.086	0.576	0.847
M - F, 4, 21	-0.009	-0.011	-0.011	0.95	-0.124	0.086	0.576	0.847

Parameter	Median	Mean	Mean.1	CI	CI_low	CI_high	pd	pval
:-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:
f.layer4 - f.layer2, F, 11	0.002	0.002	0.002	0.95	-0.016	0.019	0.611	0.778
f.layer4 - f.layer2, M, 11	0.002	0.002	0.002	0.95	-0.016	0.019	0.611	0.778
f.layer4 - f.layer2, F, 13	-0.013	-0.012	-0.012	0.95	-0.035	0.014	0.831	0.339

f.layer4 - f.layer2, M, 13		-0.013		-0.012		-0.012		0.95		-0.035		0.014		0.831		0.339	
f.layer4 - f.layer2, F, 15		-0.024		-0.024		-0.024		0.95		-0.054		0.006		0.940		0.120	
f.layer4 - f.layer2, M, 15		-0.024		-0.024		-0.024		0.95		-0.054		0.006		0.940		0.120	
f.layer4 - f.layer2, F, 18		0.051		0.051		0.051		0.95		-0.003		0.104		0.967		0.065	
f.layer4 - f.layer2, M, 18		0.051		0.051		0.051		0.95		-0.003		0.104		0.967		0.065	
f.layer4 - f.layer2, F, 21		0.031		0.031		0.031		0.95		-0.032		0.093		0.841		0.318	
f.layer4 - f.layer2, M, 21		0.031		0.031		0.031		0.95		-0.032		0.093		0.841		0.318	

Figure 2E and Figure Supp2E (subnetwork #)

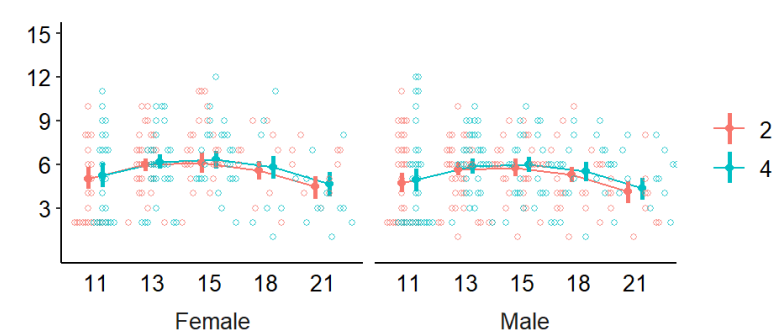


Table: ANOVA table before bootstrapping

	F	Df	Df.res	Pr(>F)
(Intercept)	238.602	1	92.229	0.000
f.age	5.925	4	412.941	0.000
sex	1.179	1	26.615	0.287
f.layer	0.853	1	376.292	0.356

Table: Main effect after bootstrapping

Parameter	Median	Mean	CI	CI_low	CI_high	pd	pval
f.age11 - f.age13	-0.945	-0.940	0.95	-1.623	-0.217	0.994	0.012
f.age11 - f.age15	-1.068	-1.047	0.95	-1.967	-0.042	0.980	0.041
f.age11 - f.age18	-0.562	-0.563	0.95	-1.417	0.267	0.908	0.184
f.age11 - f.age21	0.580	0.603	0.95	-0.459	1.780	0.857	0.285
f.age13 - f.age15	-0.115	-0.108	0.95	-0.749	0.571	0.637	0.726
f.age13 - f.age18	0.394	0.377	0.95	-0.378	1.032	0.859	0.283
f.age13 - f.age21	1.525	1.542	0.95	0.759	2.409	1.000	0.000
f.age15 - f.age18	0.488	0.484	0.95	-0.280	1.262	0.891	0.219
f.age15 - f.age21	1.641	1.650	0.95	0.767	2.565	1.000	0.000
f.age18 - f.age21	1.151	1.166	0.95	0.560	1.864	1.000	0.000

Parameter	Median	Mean	CI	CI_low	CI_high	pd	pval
F - M	0.305	0.304	0.95	-0.209	0.816	0.878	0.244

Parameter	Median	Mean	CI	CI_low	CI_high	pd	pval
f.layer2 - f.layer4	-0.217	-0.21	0.95	-0.576	0.203	0.856	0.289

Table: Post-hoc comparison with bootstrapping output

Parameter	Median	Mean	Mean.1	CI	CI_low	CI_high	pd	pval
:-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:
f.age11 - f.age13, F, 2	-0.945	-0.940	-0.940	0.95	-1.623	-0.217	0.994	0.012
f.age11 - f.age15, F, 2	-1.068	-1.047	-1.047	0.95	-1.967	-0.042	0.980	0.041
f.age11 - f.age18, F, 2	-0.562	-0.563	-0.563	0.95	-1.417	0.267	0.908	0.184
f.age11 - f.age21, F, 2	0.580	0.603	0.603	0.95	-0.459	1.780	0.857	0.285
f.age13 - f.age15, F, 2	-0.115	-0.108	-0.108	0.95	-0.749	0.571	0.637	0.726
f.age13 - f.age18, F, 2	0.394	0.377	0.377	0.95	-0.378	1.032	0.859	0.283
f.age13 - f.age21, F, 2	1.525	1.542	1.542	0.95	0.759	2.409	1.000	0.000
f.age15 - f.age18, F, 2	0.488	0.484	0.484	0.95	-0.280	1.262	0.891	0.219
f.age15 - f.age21, F, 2	1.641	1.650	1.650	0.95	0.767	2.565	1.000	0.000
f.age18 - f.age21, F, 2	1.151	1.166	1.166	0.95	0.560	1.864	1.000	0.000
f.age11 - f.age13, M, 2	-0.945	-0.940	-0.940	0.95	-1.623	-0.217	0.994	0.012
f.age11 - f.age15, M, 2	-1.068	-1.047	-1.047	0.95	-1.967	-0.042	0.980	0.041
f.age11 - f.age18, M, 2	-0.562	-0.563	-0.563	0.95	-1.417	0.267	0.908	0.184
f.age11 - f.age21, M, 2	0.580	0.603	0.603	0.95	-0.459	1.780	0.857	0.285
f.age13 - f.age15, M, 2	-0.115	-0.108	-0.108	0.95	-0.749	0.571	0.637	0.726
f.age13 - f.age18, M, 2	0.394	0.377	0.377	0.95	-0.378	1.032	0.859	0.283
f.age13 - f.age21, M, 2	1.525	1.542	1.542	0.95	0.759	2.409	1.000	0.000
f.age15 - f.age18, M, 2	0.488	0.484	0.484	0.95	-0.280	1.262	0.891	0.219
f.age15 - f.age21, M, 2	1.641	1.650	1.650	0.95	0.767	2.565	1.000	0.000
f.age18 - f.age21, M, 2	1.151	1.166	1.166	0.95	0.560	1.864	1.000	0.000
f.age11 - f.age13, F, 4	-0.945	-0.940	-0.940	0.95	-1.623	-0.217	0.994	0.012
f.age11 - f.age15, F, 4	-1.068	-1.047	-1.047	0.95	-1.967	-0.042	0.980	0.041
f.age11 - f.age18, F, 4	-0.562	-0.563	-0.563	0.95	-1.417	0.267	0.908	0.184
f.age11 - f.age21, F, 4	0.580	0.603	0.603	0.95	-0.459	1.780	0.857	0.285
f.age13 - f.age15, F, 4	-0.115	-0.108	-0.108	0.95	-0.749	0.571	0.637	0.726
f.age13 - f.age18, F, 4	0.394	0.377	0.377	0.95	-0.378	1.032	0.859	0.283
f.age13 - f.age21, F, 4	1.525	1.542	1.542	0.95	0.759	2.409	1.000	0.000
f.age15 - f.age18, F, 4	0.488	0.484	0.484	0.95	-0.280	1.262	0.891	0.219
f.age15 - f.age21, F, 4	1.641	1.650	1.650	0.95	0.767	2.565	1.000	0.000
f.age18 - f.age21, F, 4	1.151	1.166	1.166	0.95	0.560	1.864	1.000	0.000
f.age11 - f.age13, M, 4	-0.945	-0.940	-0.940	0.95	-1.623	-0.217	0.994	0.012
f.age11 - f.age15, M, 4	-1.068	-1.047	-1.047	0.95	-1.967	-0.042	0.980	0.041
f.age11 - f.age18, M, 4	-0.562	-0.563	-0.563	0.95	-1.417	0.267	0.908	0.184
f.age11 - f.age21, M, 4	0.580	0.603	0.603	0.95	-0.459	1.780	0.857	0.285
f.age13 - f.age15, M, 4	-0.115	-0.108	-0.108	0.95	-0.749	0.571	0.637	0.726
f.age13 - f.age18, M, 4	0.394	0.377	0.377	0.95	-0.378	1.032	0.859	0.283
f.age13 - f.age21, M, 4	1.525	1.542	1.542	0.95	0.759	2.409	1.000	0.000
f.age15 - f.age18, M, 4	0.488	0.484	0.484	0.95	-0.280	1.262	0.891	0.219
f.age15 - f.age21, M, 4	1.641	1.650	1.650	0.95	0.767	2.565	1.000	0.000
f.age18 - f.age21, M, 4	1.151	1.166	1.166	0.95	0.560	1.864	1.000	0.000

Parameter	Median	Mean	Mean.1	CI	CI_low	CI_high	pd	pval
:-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:
M - F, 2, 11	-0.305	-0.304	-0.304	0.95	-0.816	0.209	0.878	0.244
M - F, 4, 11	-0.305	-0.304	-0.304	0.95	-0.816	0.209	0.878	0.244
M - F, 2, 13	-0.305	-0.304	-0.304	0.95	-0.816	0.209	0.878	0.244
M - F, 4, 13	-0.305	-0.304	-0.304	0.95	-0.816	0.209	0.878	0.244
M - F, 2, 15	-0.305	-0.304	-0.304	0.95	-0.816	0.209	0.878	0.244
M - F, 4, 15	-0.305	-0.304	-0.304	0.95	-0.816	0.209	0.878	0.244
M - F, 2, 18	-0.305	-0.304	-0.304	0.95	-0.816	0.209	0.878	0.244
M - F, 4, 18	-0.305	-0.304	-0.304	0.95	-0.816	0.209	0.878	0.244
M - F, 2, 21	-0.305	-0.304	-0.304	0.95	-0.816	0.209	0.878	0.244
M - F, 4, 21	-0.305	-0.304	-0.304	0.95	-0.816	0.209	0.878	0.244

Parameter	Median	Mean	Mean.1	CI	CI_low	CI_high	pd	pval
:-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:
f.layer4 - f.layer2, F, 11	0.217	0.21	0.21	0.95	-0.203	0.576	0.856	0.289
f.layer4 - f.layer2, M, 11	0.217	0.21	0.21	0.95	-0.203	0.576	0.856	0.289
f.layer4 - f.layer2, F, 13	0.217	0.21	0.21	0.95	-0.203	0.576	0.856	0.289

f.layer4 - f.layer2, M, 13		0.217		0.21		0.21		0.95		-0.203		0.576		0.856		0.289	
f.layer4 - f.layer2, F, 15		0.217		0.21		0.21		0.95		-0.203		0.576		0.856		0.289	
f.layer4 - f.layer2, M, 15		0.217		0.21		0.21		0.95		-0.203		0.576		0.856		0.289	
f.layer4 - f.layer2, F, 18		0.217		0.21		0.21		0.95		-0.203		0.576		0.856		0.289	
f.layer4 - f.layer2, M, 18		0.217		0.21		0.21		0.95		-0.203		0.576		0.856		0.289	
f.layer4 - f.layer2, F, 21		0.217		0.21		0.21		0.95		-0.203		0.576		0.856		0.289	
f.layer4 - f.layer2, M, 21		0.217		0.21		0.21		0.95		-0.203		0.576		0.856		0.289	

Figure 2F and Figure Supp2F (tetrachoric correlation-in the same subnetwork)

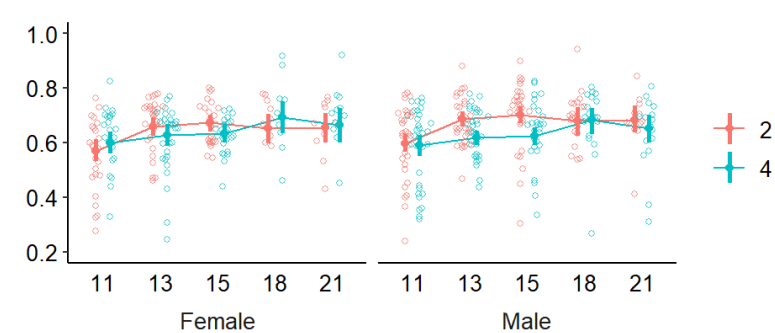


Table: ANOVA table before bootstrapping

	F	Df	Df.res	Pr(>F)
(Intercept)	820.164	1	124.537	0.000
f.age	7.744	4	394.026	0.000
sex	2.129	1	50.974	0.151
f.layer	1.976	1	366.196	0.161
sex:f.layer	3.607	1	368.324	0.058
f.age:f.layer	2.589	4	370.521	0.037

Table: Main effect after bootstrapping

Parameter	Median	Mean	CI	CI_low	CI_high	pd	pval
f.age11 - f.age13	-0.058	-0.058	0.95	-0.087	-0.028	1.000	0.000
f.age11 - f.age15	-0.069	-0.069	0.95	-0.098	-0.038	1.000	0.000
f.age11 - f.age18	-0.086	-0.087	0.95	-0.120	-0.054	1.000	0.000
f.age11 - f.age21	-0.074	-0.074	0.95	-0.128	-0.020	0.996	0.008
f.age13 - f.age15	-0.011	-0.011	0.95	-0.033	0.014	0.813	0.373
f.age13 - f.age18	-0.028	-0.029	0.95	-0.060	0.001	0.970	0.060
f.age13 - f.age21	-0.017	-0.016	0.95	-0.060	0.031	0.767	0.466
f.age15 - f.age18	-0.017	-0.018	0.95	-0.051	0.011	0.874	0.252
f.age15 - f.age21	-0.006	-0.006	0.95	-0.052	0.041	0.600	0.800
f.age18 - f.age21	0.012	0.012	0.95	-0.036	0.059	0.693	0.613

Parameter	Median	Mean	CI	CI_low	CI_high	pd	pval
F - M	-0.009	-0.009	0.95	-0.039	0.022	0.728	0.545

Parameter	Median	Mean	CI	CI_low	CI_high	pd	pval
f.layer2 - f.layer4	0.015	0.016	0.95	-0.011	0.048	0.857	0.287

Table: Post-hoc comparison with bootstrapping output

Parameter	Median	Mean	Mean.1	CI	CI_low	CI_high	pd	pval
:-----	-----	-----	-----	-----	-----	-----	-----	-----
f.age11 - f.age13, F, 2	-0.089	-0.089	-0.089	0.95	-0.124	-0.055	1.000	0.000
f.age11 - f.age15, F, 2	-0.104	-0.104	-0.104	0.95	-0.137	-0.068	1.000	0.000
f.age11 - f.age18, F, 2	-0.082	-0.082	-0.082	0.95	-0.140	-0.020	0.996	0.008
f.age11 - f.age21, F, 2	-0.086	-0.086	-0.086	0.95	-0.148	-0.026	0.998	0.004
f.age13 - f.age15, F, 2	-0.014	-0.015	-0.015	0.95	-0.044	0.013	0.838	0.324
f.age13 - f.age18, F, 2	0.007	0.008	0.008	0.95	-0.044	0.064	0.598	0.804
f.age13 - f.age21, F, 2	0.004	0.004	0.004	0.95	-0.047	0.053	0.563	0.875
f.age15 - f.age18, F, 2	0.021	0.022	0.022	0.95	-0.029	0.080	0.772	0.456
f.age15 - f.age21, F, 2	0.018	0.018	0.018	0.95	-0.032	0.069	0.763	0.474
f.age18 - f.age21, F, 2	-0.003	-0.004	-0.004	0.95	-0.066	0.054	0.538	0.923
f.age11 - f.age13, M, 2	-0.089	-0.089	-0.089	0.95	-0.124	-0.055	1.000	0.000
f.age11 - f.age15, M, 2	-0.104	-0.104	-0.104	0.95	-0.137	-0.068	1.000	0.000
f.age11 - f.age18, M, 2	-0.082	-0.082	-0.082	0.95	-0.140	-0.020	0.996	0.008
f.age11 - f.age21, M, 2	-0.086	-0.086	-0.086	0.95	-0.148	-0.026	0.998	0.004
f.age13 - f.age15, M, 2	-0.014	-0.015	-0.015	0.95	-0.044	0.013	0.838	0.324
f.age13 - f.age18, M, 2	0.007	0.008	0.008	0.95	-0.044	0.064	0.598	0.804
f.age13 - f.age21, M, 2	0.004	0.004	0.004	0.95	-0.047	0.053	0.563	0.875
f.age15 - f.age18, M, 2	0.021	0.022	0.022	0.95	-0.029	0.080	0.772	0.456
f.age15 - f.age21, M, 2	0.018	0.018	0.018	0.95	-0.032	0.069	0.763	0.474
f.age18 - f.age21, M, 2	-0.003	-0.004	-0.004	0.95	-0.066	0.054	0.538	0.923
f.age11 - f.age13, F, 4	-0.027	-0.027	-0.027	0.95	-0.071	0.015	0.890	0.219
f.age11 - f.age15, F, 4	-0.034	-0.033	-0.033	0.95	-0.072	0.007	0.949	0.101
f.age11 - f.age18, F, 4	-0.092	-0.091	-0.091	0.95	-0.140	-0.042	1.000	0.001
f.age11 - f.age21, F, 4	-0.063	-0.063	-0.063	0.95	-0.129	0.002	0.971	0.057
f.age13 - f.age15, F, 4	-0.007	-0.006	-0.006	0.95	-0.039	0.032	0.656	0.687
f.age13 - f.age18, F, 4	-0.066	-0.065	-0.065	0.95	-0.113	-0.007	0.985	0.030
f.age13 - f.age21, F, 4	-0.036	-0.036	-0.036	0.95	-0.099	0.028	0.867	0.266
f.age15 - f.age18, F, 4	-0.059	-0.058	-0.058	0.95	-0.110	-0.002	0.978	0.045
f.age15 - f.age21, F, 4	-0.029	-0.030	-0.030	0.95	-0.097	0.033	0.822	0.355
f.age18 - f.age21, F, 4	0.029	0.028	0.028	0.95	-0.034	0.088	0.822	0.356
f.age11 - f.age13, M, 4	-0.027	-0.027	-0.027	0.95	-0.071	0.015	0.890	0.219
f.age11 - f.age15, M, 4	-0.034	-0.033	-0.033	0.95	-0.072	0.007	0.949	0.101
f.age11 - f.age18, M, 4	-0.092	-0.091	-0.091	0.95	-0.140	-0.042	1.000	0.001
f.age11 - f.age21, M, 4	-0.063	-0.063	-0.063	0.95	-0.129	0.002	0.971	0.057
f.age13 - f.age15, M, 4	-0.007	-0.006	-0.006	0.95	-0.039	0.032	0.656	0.687
f.age13 - f.age18, M, 4	-0.066	-0.065	-0.065	0.95	-0.113	-0.007	0.985	0.030
f.age13 - f.age21, M, 4	-0.036	-0.036	-0.036	0.95	-0.099	0.028	0.867	0.266
f.age15 - f.age18, M, 4	-0.059	-0.058	-0.058	0.95	-0.110	-0.002	0.978	0.045
f.age15 - f.age21, M, 4	-0.029	-0.030	-0.030	0.95	-0.097	0.033	0.822	0.355
f.age18 - f.age21, M, 4	0.029	0.028	0.028	0.95	-0.034	0.088	0.822	0.356

Parameter	Median	Mean	Mean.1	CI	CI_low	CI_high	pd	pval
:-----	-----	-----	-----	-----	-----	-----	-----	-----
M - F, 2, 11	0.028	0.028	0.028	0.95	-0.009	0.065	0.936	0.128
M - F, 4, 11	-0.010	-0.010	-0.010	0.95	-0.050	0.028	0.694	0.611
M - F, 2, 13	0.028	0.028	0.028	0.95	-0.009	0.065	0.936	0.128
M - F, 4, 13	-0.010	-0.010	-0.010	0.95	-0.050	0.028	0.694	0.611
M - F, 2, 15	0.028	0.028	0.028	0.95	-0.009	0.065	0.936	0.128
M - F, 4, 15	-0.010	-0.010	-0.010	0.95	-0.050	0.028	0.694	0.611
M - F, 2, 18	0.028	0.028	0.028	0.95	-0.009	0.065	0.936	0.128
M - F, 4, 18	-0.010	-0.010	-0.010	0.95	-0.050	0.028	0.694	0.611
M - F, 2, 21	0.028	0.028	0.028	0.95	-0.009	0.065	0.936	0.128
M - F, 4, 21	-0.010	-0.010	-0.010	0.95	-0.050	0.028	0.694	0.611

Parameter	Median	Mean	Mean.1	CI	CI_low	CI_high	pd	pval
:-----	-----	-----	-----	-----	-----	-----	-----	-----
f.layer4 - f.layer2, F, 11	0.033	0.032	0.032	0.95	-0.003	0.065	0.966	0.068
f.layer4 - f.layer2, M, 11	-0.005	-0.006	-0.006	0.95	-0.054	0.037	0.593	0.814
f.layer4 - f.layer2, F, 13	-0.031	-0.030	-0.030	0.95	-0.075	0.020	0.892	0.217

f.layer4 - f.layer2, M, 13		-0.068		-0.068		-0.068		0.95		-0.109		-0.032		1.000		0.000	
f.layer4 - f.layer2, F, 15		-0.038		-0.038		-0.038		0.95		-0.073		-0.004		0.987		0.026	
f.layer4 - f.layer2, M, 15		-0.076		-0.077		-0.077		0.95		-0.116		-0.040		1.000		0.000	
f.layer4 - f.layer2, F, 18		0.042		0.042		0.042		0.95		-0.050		0.130		0.810		0.381	
f.layer4 - f.layer2, M, 18		0.006		0.004		0.004		0.95		-0.087		0.085		0.550		0.900	
f.layer4 - f.layer2, F, 21		0.012		0.010		0.010		0.95		-0.060		0.069		0.634		0.732	
f.layer4 - f.layer2, M, 21		-0.027		-0.029		-0.029		0.95		-0.097		0.030		0.817		0.367	

Figure 3A and Figure Supp2G (single-cluster (%))

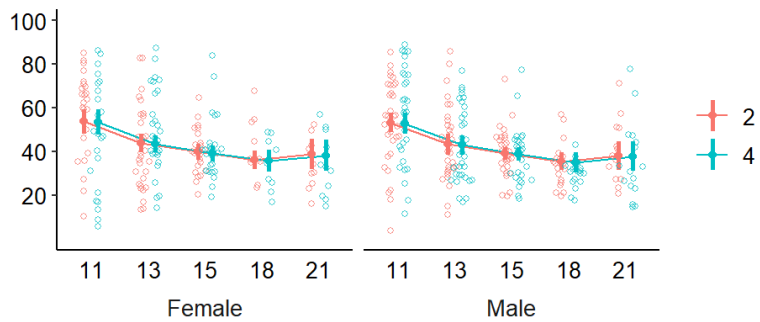


Table: ANOVA table before bootstrapping

		F		Df		Df.res		Pr(>F)	
:-----		-----		---		-----		-----	
(Intercept)		475.779		1		65.491		0.000	
f.age		15.727		4		410.681		0.000	
sex		0.054		1		28.302		0.817	
f.layer		0.111		1		372.570		0.739	

Table: Main effect after bootstrapping

Parameter		Median		Mean		CI		CI_low		CI_high		pd		pval	
:-----		-----		-----		-----		-----		-----		-----		-----	
f.age11 - f.age13		9.813		9.834		0.95		4.042		15.637		1.000		0.001	
f.age11 - f.age15		13.972		13.972		0.95		9.155		18.812		1.000		0.000	
f.age11 - f.age18		17.644		17.647		0.95		11.569		23.682		1.000		0.000	
f.age11 - f.age21		15.106		15.006		0.95		6.153		23.750		1.000		0.001	
f.age13 - f.age15		4.110		4.138		0.95		0.983		7.422		0.995		0.011	
f.age13 - f.age18		7.745		7.813		0.95		3.426		12.622		1.000		0.000	
f.age13 - f.age21		5.207		5.172		0.95		-2.339		12.109		0.912		0.175	
f.age15 - f.age18		3.653		3.675		0.95		-0.005		7.419		0.975		0.050	
f.age15 - f.age21		1.060		1.034		0.95		-5.169		7.138		0.633		0.734	
f.age18 - f.age21		-2.658		-2.641		0.95		-9.605		4.412		0.771		0.458	

Parameter		Median		Mean		CI		CI_low		CI_high		pd		pval	
:-----		-----		-----		-----		-----		-----		-----		-----	
F - M		0.631		0.619		0.95		-3.613		4.789		0.611		0.778	

Parameter		Median		Mean		CI		CI_low		CI_high		pd		pval	
:-----		-----		-----		-----		-----		-----		-----		-----	
f.layer2 - f.layer4		0.468		0.469		0.95		-1.875		2.847		0.647		0.706	

Table: Post-hoc comparison with bootstrapping output

Parameter	Median	Mean	Mean.1	CI	CI_low	CI_high	pd	pval
:-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:
f.age11 - f.age13, F, 2	9.813	9.834	9.834	0.95	4.042	15.637	1.000	0.001
f.age11 - f.age15, F, 2	13.972	13.972	13.972	0.95	9.155	18.812	1.000	0.000
f.age11 - f.age18, F, 2	17.644	17.647	17.647	0.95	11.569	23.682	1.000	0.000
f.age11 - f.age21, F, 2	15.106	15.006	15.006	0.95	6.153	23.750	1.000	0.001
f.age13 - f.age15, F, 2	4.110	4.138	4.138	0.95	0.983	7.422	0.995	0.011
f.age13 - f.age18, F, 2	7.745	7.813	7.813	0.95	3.426	12.622	1.000	0.000
f.age13 - f.age21, F, 2	5.207	5.172	5.172	0.95	-2.339	12.109	0.912	0.175
f.age15 - f.age18, F, 2	3.653	3.675	3.675	0.95	-0.005	7.419	0.975	0.050
f.age15 - f.age21, F, 2	1.060	1.034	1.034	0.95	-5.169	7.138	0.633	0.734
f.age18 - f.age21, F, 2	-2.658	-2.641	-2.641	0.95	-9.605	4.412	0.771	0.458
f.age11 - f.age13, M, 2	9.813	9.834	9.834	0.95	4.042	15.637	1.000	0.001
f.age11 - f.age15, M, 2	13.972	13.972	13.972	0.95	9.155	18.812	1.000	0.000
f.age11 - f.age18, M, 2	17.644	17.647	17.647	0.95	11.569	23.682	1.000	0.000
f.age11 - f.age21, M, 2	15.106	15.006	15.006	0.95	6.153	23.750	1.000	0.001
f.age13 - f.age15, M, 2	4.110	4.138	4.138	0.95	0.983	7.422	0.995	0.011
f.age13 - f.age18, M, 2	7.745	7.813	7.813	0.95	3.426	12.622	1.000	0.000
f.age13 - f.age21, M, 2	5.207	5.172	5.172	0.95	-2.339	12.109	0.912	0.175
f.age15 - f.age18, M, 2	3.653	3.675	3.675	0.95	-0.005	7.419	0.975	0.050
f.age15 - f.age21, M, 2	1.060	1.034	1.034	0.95	-5.169	7.138	0.633	0.734
f.age18 - f.age21, M, 2	-2.658	-2.641	-2.641	0.95	-9.605	4.412	0.771	0.458
f.age11 - f.age13, F, 4	9.813	9.834	9.834	0.95	4.042	15.637	1.000	0.001
f.age11 - f.age15, F, 4	13.972	13.972	13.972	0.95	9.155	18.812	1.000	0.000
f.age11 - f.age18, F, 4	17.644	17.647	17.647	0.95	11.569	23.682	1.000	0.000
f.age11 - f.age21, F, 4	15.106	15.006	15.006	0.95	6.153	23.750	1.000	0.001
f.age13 - f.age15, F, 4	4.110	4.138	4.138	0.95	0.983	7.422	0.995	0.011
f.age13 - f.age18, F, 4	7.745	7.813	7.813	0.95	3.426	12.622	1.000	0.000
f.age13 - f.age21, F, 4	5.207	5.172	5.172	0.95	-2.339	12.109	0.912	0.175
f.age15 - f.age18, F, 4	3.653	3.675	3.675	0.95	-0.005	7.419	0.975	0.050
f.age15 - f.age21, F, 4	1.060	1.034	1.034	0.95	-5.169	7.138	0.633	0.734
f.age18 - f.age21, F, 4	-2.658	-2.641	-2.641	0.95	-9.605	4.412	0.771	0.458
f.age11 - f.age13, M, 4	9.813	9.834	9.834	0.95	4.042	15.637	1.000	0.001
f.age11 - f.age15, M, 4	13.972	13.972	13.972	0.95	9.155	18.812	1.000	0.000
f.age11 - f.age18, M, 4	17.644	17.647	17.647	0.95	11.569	23.682	1.000	0.000
f.age11 - f.age21, M, 4	15.106	15.006	15.006	0.95	6.153	23.750	1.000	0.001
f.age13 - f.age15, M, 4	4.110	4.138	4.138	0.95	0.983	7.422	0.995	0.011
f.age13 - f.age18, M, 4	7.745	7.813	7.813	0.95	3.426	12.622	1.000	0.000
f.age13 - f.age21, M, 4	5.207	5.172	5.172	0.95	-2.339	12.109	0.912	0.175
f.age15 - f.age18, M, 4	3.653	3.675	3.675	0.95	-0.005	7.419	0.975	0.050
f.age15 - f.age21, M, 4	1.060	1.034	1.034	0.95	-5.169	7.138	0.633	0.734
f.age18 - f.age21, M, 4	-2.658	-2.641	-2.641	0.95	-9.605	4.412	0.771	0.458

Parameter	Median	Mean	Mean.1	CI	CI_low	CI_high	pd	pval
:-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:
M - F, 2, 11	-0.631	-0.619	-0.619	0.95	-4.789	3.613	0.611	0.778
M - F, 4, 11	-0.631	-0.619	-0.619	0.95	-4.789	3.613	0.611	0.778
M - F, 2, 13	-0.631	-0.619	-0.619	0.95	-4.789	3.613	0.611	0.778
M - F, 4, 13	-0.631	-0.619	-0.619	0.95	-4.789	3.613	0.611	0.778
M - F, 2, 15	-0.631	-0.619	-0.619	0.95	-4.789	3.613	0.611	0.778
M - F, 4, 15	-0.631	-0.619	-0.619	0.95	-4.789	3.613	0.611	0.778
M - F, 2, 18	-0.631	-0.619	-0.619	0.95	-4.789	3.613	0.611	0.778
M - F, 4, 18	-0.631	-0.619	-0.619	0.95	-4.789	3.613	0.611	0.778
M - F, 2, 21	-0.631	-0.619	-0.619	0.95	-4.789	3.613	0.611	0.778
M - F, 4, 21	-0.631	-0.619	-0.619	0.95	-4.789	3.613	0.611	0.778

Parameter	Median	Mean	Mean.1	CI	CI_low	CI_high	pd	pval
:-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:
f.layer4 - f.layer2, F, 11	-0.468	-0.469	-0.469	0.95	-2.847	1.875	0.647	0.706
f.layer4 - f.layer2, M, 11	-0.468	-0.469	-0.469	0.95	-2.847	1.875	0.647	0.706
f.layer4 - f.layer2, F, 13	-0.468	-0.469	-0.469	0.95	-2.847	1.875	0.647	0.706

f.layer4 - f.layer2, M, 13		-0.468		-0.469		-0.469		0.95		-2.847		1.875		0.647		0.706	
f.layer4 - f.layer2, F, 15		-0.468		-0.469		-0.469		0.95		-2.847		1.875		0.647		0.706	
f.layer4 - f.layer2, M, 15		-0.468		-0.469		-0.469		0.95		-2.847		1.875		0.647		0.706	
f.layer4 - f.layer2, F, 18		-0.468		-0.469		-0.469		0.95		-2.847		1.875		0.647		0.706	
f.layer4 - f.layer2, M, 18		-0.468		-0.469		-0.469		0.95		-2.847		1.875		0.647		0.706	
f.layer4 - f.layer2, F, 21		-0.468		-0.469		-0.469		0.95		-2.847		1.875		0.647		0.706	
f.layer4 - f.layer2, M, 21		-0.468		-0.469		-0.469		0.95		-2.847		1.875		0.647		0.706	

Figure 3B and Figure Supp2H (Non-cluster (%))

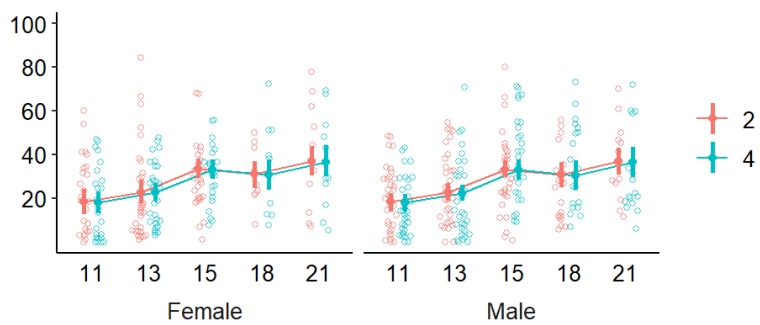


Table: ANOVA table before bootstrapping

	F	Df	Df.res	Pr(>F)
:-----	-----	---	-----	-----
(Intercept)	70.573	1	97.414	0.000
f.age	14.951	4	406.275	0.000
sex	0.001	1	25.334	0.972
f.layer	0.031	1	376.025	0.861

Table: Main effect after bootstrapping

Parameter	Median	Mean	CI	CI_low	CI_high	pd	pval
:-----	-----	-----	-----	-----	-----	-----	-----
f.age11 - f.age13	-4.526	-4.573	0.95	-10.824	1.380	0.930	0.140
f.age11 - f.age15	-14.974	-15.046	0.95	-21.736	-8.658	1.000	0.000
f.age11 - f.age18	-12.705	-12.590	0.95	-20.356	-4.414	0.998	0.004
f.age11 - f.age21	-18.664	-18.669	0.95	-26.481	-10.847	1.000	0.000
f.age13 - f.age15	-10.435	-10.473	0.95	-15.572	-5.591	1.000	0.000
f.age13 - f.age18	-8.093	-8.017	0.95	-15.976	0.178	0.972	0.056
f.age13 - f.age21	-14.026	-14.096	0.95	-21.409	-7.113	1.000	0.000
f.age15 - f.age18	2.435	2.456	0.95	-3.387	8.563	0.795	0.409
f.age15 - f.age21	-3.566	-3.623	0.95	-11.986	4.388	0.806	0.387
f.age18 - f.age21	-6.023	-6.079	0.95	-14.115	1.424	0.941	0.117

Parameter	Median	Mean	CI	CI_low	CI_high	pd	pval
:-----	-----	-----	-----	-----	-----	-----	-----
F - M	0.051	0.094	0.95	-3.251	3.682	0.513	0.975

Parameter	Median	Mean	CI	CI_low	CI_high	pd	pval
:-----	-----	-----	-----	-----	-----	-----	-----
f.layer2 - f.layer4	0.268	0.283	0.95	-2.177	2.847	0.588	0.825

Table: Post-hoc comparison with bootstrapping output

Parameter	Median	Mean	Mean.1	CI	CI_low	CI_high	pd	pval
:-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:
f.age11 - f.age13, F, 2	-4.526	-4.573	-4.573	0.95	-10.824	1.380	0.930	0.140
f.age11 - f.age15, F, 2	-14.974	-15.046	-15.046	0.95	-21.736	-8.658	1.000	0.000
f.age11 - f.age18, F, 2	-12.705	-12.590	-12.590	0.95	-20.356	-4.414	0.998	0.004
f.age11 - f.age21, F, 2	-18.664	-18.669	-18.669	0.95	-26.481	-10.847	1.000	0.000
f.age13 - f.age15, F, 2	-10.435	-10.473	-10.473	0.95	-15.572	-5.591	1.000	0.000
f.age13 - f.age18, F, 2	-8.093	-8.017	-8.017	0.95	-15.976	0.178	0.972	0.056
f.age13 - f.age21, F, 2	-14.026	-14.096	-14.096	0.95	-21.409	-7.113	1.000	0.000
f.age15 - f.age18, F, 2	2.435	2.456	2.456	0.95	-3.387	8.563	0.795	0.409
f.age15 - f.age21, F, 2	-3.566	-3.623	-3.623	0.95	-11.986	4.388	0.806	0.387
f.age18 - f.age21, F, 2	-6.023	-6.079	-6.079	0.95	-14.115	1.424	0.941	0.117
f.age11 - f.age13, M, 2	-4.526	-4.573	-4.573	0.95	-10.824	1.380	0.930	0.140
f.age11 - f.age15, M, 2	-14.974	-15.046	-15.046	0.95	-21.736	-8.658	1.000	0.000
f.age11 - f.age18, M, 2	-12.705	-12.590	-12.590	0.95	-20.356	-4.414	0.998	0.004
f.age11 - f.age21, M, 2	-18.664	-18.669	-18.669	0.95	-26.481	-10.847	1.000	0.000
f.age13 - f.age15, M, 2	-10.435	-10.473	-10.473	0.95	-15.572	-5.591	1.000	0.000
f.age13 - f.age18, M, 2	-8.093	-8.017	-8.017	0.95	-15.976	0.178	0.972	0.056
f.age13 - f.age21, M, 2	-14.026	-14.096	-14.096	0.95	-21.409	-7.113	1.000	0.000
f.age15 - f.age18, M, 2	2.435	2.456	2.456	0.95	-3.387	8.563	0.795	0.409
f.age15 - f.age21, M, 2	-3.566	-3.623	-3.623	0.95	-11.986	4.388	0.806	0.387
f.age18 - f.age21, M, 2	-6.023	-6.079	-6.079	0.95	-14.115	1.424	0.941	0.117
f.age11 - f.age13, F, 4	-4.526	-4.573	-4.573	0.95	-10.824	1.380	0.930	0.140
f.age11 - f.age15, F, 4	-14.974	-15.046	-15.046	0.95	-21.736	-8.658	1.000	0.000
f.age11 - f.age18, F, 4	-12.705	-12.590	-12.590	0.95	-20.356	-4.414	0.998	0.004
f.age11 - f.age21, F, 4	-18.664	-18.669	-18.669	0.95	-26.481	-10.847	1.000	0.000
f.age13 - f.age15, F, 4	-10.435	-10.473	-10.473	0.95	-15.572	-5.591	1.000	0.000
f.age13 - f.age18, F, 4	-8.093	-8.017	-8.017	0.95	-15.976	0.178	0.972	0.056
f.age13 - f.age21, F, 4	-14.026	-14.096	-14.096	0.95	-21.409	-7.113	1.000	0.000
f.age15 - f.age18, F, 4	2.435	2.456	2.456	0.95	-3.387	8.563	0.795	0.409
f.age15 - f.age21, F, 4	-3.566	-3.623	-3.623	0.95	-11.986	4.388	0.806	0.387
f.age18 - f.age21, F, 4	-6.023	-6.079	-6.079	0.95	-14.115	1.424	0.941	0.117
f.age11 - f.age13, M, 4	-4.526	-4.573	-4.573	0.95	-10.824	1.380	0.930	0.140
f.age11 - f.age15, M, 4	-14.974	-15.046	-15.046	0.95	-21.736	-8.658	1.000	0.000
f.age11 - f.age18, M, 4	-12.705	-12.590	-12.590	0.95	-20.356	-4.414	0.998	0.004
f.age11 - f.age21, M, 4	-18.664	-18.669	-18.669	0.95	-26.481	-10.847	1.000	0.000
f.age13 - f.age15, M, 4	-10.435	-10.473	-10.473	0.95	-15.572	-5.591	1.000	0.000
f.age13 - f.age18, M, 4	-8.093	-8.017	-8.017	0.95	-15.976	0.178	0.972	0.056
f.age13 - f.age21, M, 4	-14.026	-14.096	-14.096	0.95	-21.409	-7.113	1.000	0.000
f.age15 - f.age18, M, 4	2.435	2.456	2.456	0.95	-3.387	8.563	0.795	0.409
f.age15 - f.age21, M, 4	-3.566	-3.623	-3.623	0.95	-11.986	4.388	0.806	0.387
f.age18 - f.age21, M, 4	-6.023	-6.079	-6.079	0.95	-14.115	1.424	0.941	0.117

Parameter	Median	Mean	Mean.1	CI	CI_low	CI_high	pd	pval
:-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:
M - F, 2, 11	-0.051	-0.094	-0.094	0.95	-3.682	3.251	0.513	0.975
M - F, 4, 11	-0.051	-0.094	-0.094	0.95	-3.682	3.251	0.513	0.975
M - F, 2, 13	-0.051	-0.094	-0.094	0.95	-3.682	3.251	0.513	0.975
M - F, 4, 13	-0.051	-0.094	-0.094	0.95	-3.682	3.251	0.513	0.975
M - F, 2, 15	-0.051	-0.094	-0.094	0.95	-3.682	3.251	0.513	0.975
M - F, 4, 15	-0.051	-0.094	-0.094	0.95	-3.682	3.251	0.513	0.975
M - F, 2, 18	-0.051	-0.094	-0.094	0.95	-3.682	3.251	0.513	0.975
M - F, 4, 18	-0.051	-0.094	-0.094	0.95	-3.682	3.251	0.513	0.975
M - F, 2, 21	-0.051	-0.094	-0.094	0.95	-3.682	3.251	0.513	0.975
M - F, 4, 21	-0.051	-0.094	-0.094	0.95	-3.682	3.251	0.513	0.975

Parameter	Median	Mean	Mean.1	CI	CI_low	CI_high	pd	pval
:-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:
f.layer4 - f.layer2, F, 11	-0.268	-0.283	-0.283	0.95	-2.847	2.177	0.588	0.825
f.layer4 - f.layer2, M, 11	-0.268	-0.283	-0.283	0.95	-2.847	2.177	0.588	0.825
f.layer4 - f.layer2, F, 13	-0.268	-0.283	-0.283	0.95	-2.847	2.177	0.588	0.825

f.layer4 - f.layer2, M, 13		-0.268		-0.283		-0.283		0.95		-2.847		2.177		0.588		0.825	
f.layer4 - f.layer2, F, 15		-0.268		-0.283		-0.283		0.95		-2.847		2.177		0.588		0.825	
f.layer4 - f.layer2, M, 15		-0.268		-0.283		-0.283		0.95		-2.847		2.177		0.588		0.825	
f.layer4 - f.layer2, F, 18		-0.268		-0.283		-0.283		0.95		-2.847		2.177		0.588		0.825	
f.layer4 - f.layer2, M, 18		-0.268		-0.283		-0.283		0.95		-2.847		2.177		0.588		0.825	
f.layer4 - f.layer2, F, 21		-0.268		-0.283		-0.283		0.95		-2.847		2.177		0.588		0.825	
f.layer4 - f.layer2, M, 21		-0.268		-0.283		-0.283		0.95		-2.847		2.177		0.588		0.825	

Figure 3C and Figure Supp2I (Multiple-cluster (%))

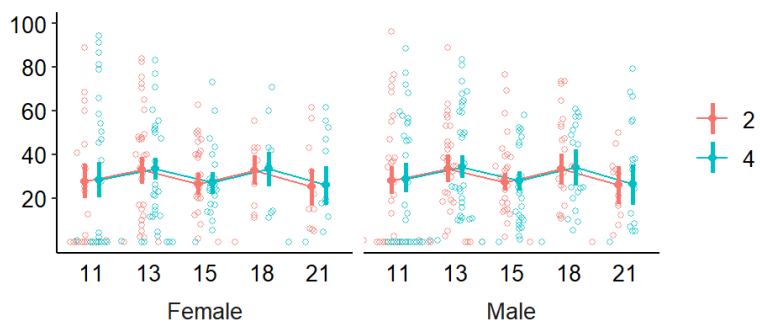


Table: ANOVA table before bootstrapping

	F	Df	Df.res	Pr(>F)
:-----	-----	---	-----	-----
(Intercept)	73.689	1	97.898	0.000
f.age	1.950	4	431.704	0.101
sex	0.043	1	27.293	0.838
f.layer	0.122	1	414.587	0.727

Table: Main effect after bootstrapping

Parameter	Median	Mean	CI	CI_low	CI_high	pd	pval
:-----	-----	-----	-----	-----	-----	-----	-----
f.age11 - f.age13	-5.269	-5.263	0.95	-13.612	3.525	0.884	0.232
f.age11 - f.age15	0.965	1.045	0.95	-6.392	9.227	0.591	0.817
f.age11 - f.age18	-5.074	-5.066	0.95	-15.264	4.971	0.842	0.316
f.age11 - f.age21	2.374	2.479	0.95	-8.409	14.046	0.655	0.690
f.age13 - f.age15	6.242	6.307	0.95	0.413	12.566	0.983	0.034
f.age13 - f.age18	0.220	0.197	0.95	-9.017	9.155	0.521	0.957
f.age13 - f.age21	7.710	7.742	0.95	-1.968	17.877	0.940	0.120
f.age15 - f.age18	-6.054	-6.110	0.95	-13.265	0.841	0.956	0.089
f.age15 - f.age21	1.488	1.434	0.95	-7.980	10.995	0.621	0.758
f.age18 - f.age21	7.456	7.545	0.95	-1.117	16.872	0.956	0.089

Parameter	Median	Mean	CI	CI_low	CI_high	pd	pval
:-----	-----	-----	-----	-----	-----	-----	-----
F - M	-0.717	-0.721	0.95	-5.442	4.13	0.621	0.757

Parameter	Median	Mean	CI	CI_low	CI_high	pd	pval
:-----	-----	-----	-----	-----	-----	-----	-----
f.layer2 - f.layer4	-0.717	-0.751	0.95	-4.348	2.662	0.659	0.682

Table: Post-hoc comparison with bootstrapping output

Parameter	Median	Mean	Mean.1	CI	CI_low	CI_high	pd	pval
:-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:
f.age11 - f.age13, F, 2	-5.269	-5.263	-5.263	0.95	-13.612	3.525	0.884	0.232
f.age11 - f.age15, F, 2	0.965	1.045	1.045	0.95	-6.392	9.227	0.591	0.817
f.age11 - f.age18, F, 2	-5.074	-5.066	-5.066	0.95	-15.264	4.971	0.842	0.316
f.age11 - f.age21, F, 2	2.374	2.479	2.479	0.95	-8.409	14.046	0.655	0.690
f.age13 - f.age15, F, 2	6.242	6.307	6.307	0.95	0.413	12.566	0.983	0.034
f.age13 - f.age18, F, 2	0.220	0.197	0.197	0.95	-9.017	9.155	0.521	0.957
f.age13 - f.age21, F, 2	7.710	7.742	7.742	0.95	-1.968	17.877	0.940	0.120
f.age15 - f.age18, F, 2	-6.054	-6.110	-6.110	0.95	-13.265	0.841	0.956	0.089
f.age15 - f.age21, F, 2	1.488	1.434	1.434	0.95	-7.980	10.995	0.621	0.758
f.age18 - f.age21, F, 2	7.456	7.545	7.545	0.95	-1.117	16.872	0.956	0.089
f.age11 - f.age13, M, 2	-5.269	-5.263	-5.263	0.95	-13.612	3.525	0.884	0.232
f.age11 - f.age15, M, 2	0.965	1.045	1.045	0.95	-6.392	9.227	0.591	0.817
f.age11 - f.age18, M, 2	-5.074	-5.066	-5.066	0.95	-15.264	4.971	0.842	0.316
f.age11 - f.age21, M, 2	2.374	2.479	2.479	0.95	-8.409	14.046	0.655	0.690
f.age13 - f.age15, M, 2	6.242	6.307	6.307	0.95	0.413	12.566	0.983	0.034
f.age13 - f.age18, M, 2	0.220	0.197	0.197	0.95	-9.017	9.155	0.521	0.957
f.age13 - f.age21, M, 2	7.710	7.742	7.742	0.95	-1.968	17.877	0.940	0.120
f.age15 - f.age18, M, 2	-6.054	-6.110	-6.110	0.95	-13.265	0.841	0.956	0.089
f.age15 - f.age21, M, 2	1.488	1.434	1.434	0.95	-7.980	10.995	0.621	0.758
f.age18 - f.age21, M, 2	7.456	7.545	7.545	0.95	-1.117	16.872	0.956	0.089
f.age11 - f.age13, F, 4	-5.269	-5.263	-5.263	0.95	-13.612	3.525	0.884	0.232
f.age11 - f.age15, F, 4	0.965	1.045	1.045	0.95	-6.392	9.227	0.591	0.817
f.age11 - f.age18, F, 4	-5.074	-5.066	-5.066	0.95	-15.264	4.971	0.842	0.316
f.age11 - f.age21, F, 4	2.374	2.479	2.479	0.95	-8.409	14.046	0.655	0.690
f.age13 - f.age15, F, 4	6.242	6.307	6.307	0.95	0.413	12.566	0.983	0.034
f.age13 - f.age18, F, 4	0.220	0.197	0.197	0.95	-9.017	9.155	0.521	0.957
f.age13 - f.age21, F, 4	7.710	7.742	7.742	0.95	-1.968	17.877	0.940	0.120
f.age15 - f.age18, F, 4	-6.054	-6.110	-6.110	0.95	-13.265	0.841	0.956	0.089
f.age15 - f.age21, F, 4	1.488	1.434	1.434	0.95	-7.980	10.995	0.621	0.758
f.age18 - f.age21, F, 4	7.456	7.545	7.545	0.95	-1.117	16.872	0.956	0.089
f.age11 - f.age13, M, 4	-5.269	-5.263	-5.263	0.95	-13.612	3.525	0.884	0.232
f.age11 - f.age15, M, 4	0.965	1.045	1.045	0.95	-6.392	9.227	0.591	0.817
f.age11 - f.age18, M, 4	-5.074	-5.066	-5.066	0.95	-15.264	4.971	0.842	0.316
f.age11 - f.age21, M, 4	2.374	2.479	2.479	0.95	-8.409	14.046	0.655	0.690
f.age13 - f.age15, M, 4	6.242	6.307	6.307	0.95	0.413	12.566	0.983	0.034
f.age13 - f.age18, M, 4	0.220	0.197	0.197	0.95	-9.017	9.155	0.521	0.957
f.age13 - f.age21, M, 4	7.710	7.742	7.742	0.95	-1.968	17.877	0.940	0.120
f.age15 - f.age18, M, 4	-6.054	-6.110	-6.110	0.95	-13.265	0.841	0.956	0.089
f.age15 - f.age21, M, 4	1.488	1.434	1.434	0.95	-7.980	10.995	0.621	0.758
f.age18 - f.age21, M, 4	7.456	7.545	7.545	0.95	-1.117	16.872	0.956	0.089

Parameter	Median	Mean	Mean.1	CI	CI_low	CI_high	pd	pval
:-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:
M - F, 2, 11	0.717	0.721	0.721	0.95	-4.13	5.442	0.621	0.757
M - F, 4, 11	0.717	0.721	0.721	0.95	-4.13	5.442	0.621	0.757
M - F, 2, 13	0.717	0.721	0.721	0.95	-4.13	5.442	0.621	0.757
M - F, 4, 13	0.717	0.721	0.721	0.95	-4.13	5.442	0.621	0.757
M - F, 2, 15	0.717	0.721	0.721	0.95	-4.13	5.442	0.621	0.757
M - F, 4, 15	0.717	0.721	0.721	0.95	-4.13	5.442	0.621	0.757
M - F, 2, 18	0.717	0.721	0.721	0.95	-4.13	5.442	0.621	0.757
M - F, 4, 18	0.717	0.721	0.721	0.95	-4.13	5.442	0.621	0.757
M - F, 2, 21	0.717	0.721	0.721	0.95	-4.13	5.442	0.621	0.757
M - F, 4, 21	0.717	0.721	0.721	0.95	-4.13	5.442	0.621	0.757

Parameter	Median	Mean	Mean.1	CI	CI_low	CI_high	pd	pval
:-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:
f.layer4 - f.layer2, F, 11	0.717	0.751	0.751	0.95	-2.662	4.348	0.659	0.682
f.layer4 - f.layer2, M, 11	0.717	0.751	0.751	0.95	-2.662	4.348	0.659	0.682
f.layer4 - f.layer2, F, 13	0.717	0.751	0.751	0.95	-2.662	4.348	0.659	0.682

f.layer4 - f.layer2, M, 13		0.717		0.751		0.751		0.95		-2.662		4.348		0.659		0.682	
f.layer4 - f.layer2, F, 15		0.717		0.751		0.751		0.95		-2.662		4.348		0.659		0.682	
f.layer4 - f.layer2, M, 15		0.717		0.751		0.751		0.95		-2.662		4.348		0.659		0.682	
f.layer4 - f.layer2, F, 18		0.717		0.751		0.751		0.95		-2.662		4.348		0.659		0.682	
f.layer4 - f.layer2, M, 18		0.717		0.751		0.751		0.95		-2.662		4.348		0.659		0.682	
f.layer4 - f.layer2, F, 21		0.717		0.751		0.751		0.95		-2.662		4.348		0.659		0.682	
f.layer4 - f.layer2, M, 21		0.717		0.751		0.751		0.95		-2.662		4.348		0.659		0.682	

Figure 3E and Figure Supp 2J (Pairwise distances between neurons)

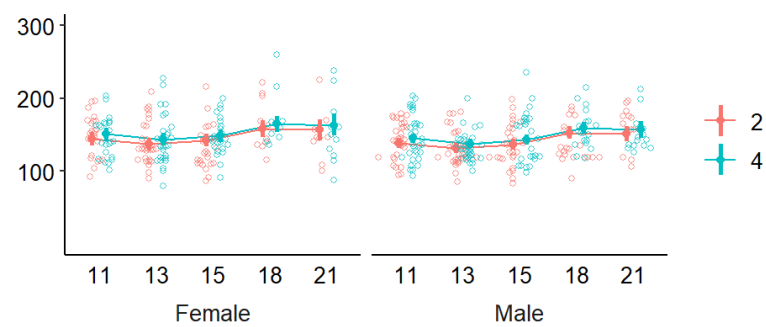


Table: ANOVA table before bootstrapping

	F	Df	Df.res	Pr(>F)
:-----	-----	---	-----	-----
(Intercept)	1058.556	1	61.675	0.000
f.age	7.419	4	409.953	0.000
sex	1.194	1	28.881	0.284
f.layer	6.259	1	372.197	0.013

Table: Main effect after bootstrapping

Parameter	Median	Mean	CI	CI_low	CI_high	pd	pval
:-----	-----	-----	----	-----	-----	-----	-----
f.age11 - f.age13	7.460	7.435	0.95	0.290	14.366	0.979	0.042
f.age11 - f.age15	2.177	2.086	0.95	-7.035	10.590	0.686	0.628
f.age11 - f.age18	-13.906	-13.964	0.95	-23.739	-4.523	0.999	0.002
f.age11 - f.age21	-12.248	-12.317	0.95	-25.774	0.503	0.969	0.063
f.age13 - f.age15	-5.293	-5.350	0.95	-10.858	-0.019	0.975	0.050
f.age13 - f.age18	-21.223	-21.400	0.95	-30.184	-13.374	1.000	0.000
f.age13 - f.age21	-19.587	-19.752	0.95	-32.207	-7.960	1.000	0.000
f.age15 - f.age18	-15.869	-16.050	0.95	-25.001	-8.331	1.000	0.000
f.age15 - f.age21	-14.189	-14.403	0.95	-25.987	-4.404	0.999	0.003
f.age18 - f.age21	1.585	1.647	0.95	-9.031	12.519	0.617	0.766

Parameter	Median	Mean	CI	CI_low	CI_high	pd	pval
:-----	-----	-----	----	-----	-----	-----	-----
F - M	5.623	5.592	0.95	-2.918	14.007	0.905	0.19

Parameter	Median	Mean	CI	CI_low	CI_high	pd	pval
:-----	-----	-----	----	-----	-----	-----	-----
f.layer2 - f.layer4	-6.162	-6.199	0.95	-12.427	-0.344	0.981	0.038

Table: Post-hoc comparison with bootstrapping output

Parameter	Median	Mean	Mean.1	CI	CI_low	CI_high	pd	pval
:-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:
f.age11 - f.age13, F, 2	7.460	7.435	7.435	0.95	0.290	14.366	0.979	0.042
f.age11 - f.age15, F, 2	2.177	2.086	2.086	0.95	-7.035	10.590	0.686	0.628
f.age11 - f.age18, F, 2	-13.906	-13.964	-13.964	0.95	-23.739	-4.523	0.999	0.002
f.age11 - f.age21, F, 2	-12.248	-12.317	-12.317	0.95	-25.774	0.503	0.969	0.063
f.age13 - f.age15, F, 2	-5.293	-5.350	-5.350	0.95	-10.858	-0.019	0.975	0.050
f.age13 - f.age18, F, 2	-21.223	-21.400	-21.400	0.95	-30.184	-13.374	1.000	0.000
f.age13 - f.age21, F, 2	-19.587	-19.752	-19.752	0.95	-32.207	-7.960	1.000	0.000
f.age15 - f.age18, F, 2	-15.869	-16.050	-16.050	0.95	-25.001	-8.331	1.000	0.000
f.age15 - f.age21, F, 2	-14.189	-14.403	-14.403	0.95	-25.987	-4.404	0.999	0.003
f.age18 - f.age21, F, 2	1.585	1.647	1.647	0.95	-9.031	12.519	0.617	0.766
f.age11 - f.age13, M, 2	7.460	7.435	7.435	0.95	0.290	14.366	0.979	0.042
f.age11 - f.age15, M, 2	2.177	2.086	2.086	0.95	-7.035	10.590	0.686	0.628
f.age11 - f.age18, M, 2	-13.906	-13.964	-13.964	0.95	-23.739	-4.523	0.999	0.002
f.age11 - f.age21, M, 2	-12.248	-12.317	-12.317	0.95	-25.774	0.503	0.969	0.063
f.age13 - f.age15, M, 2	-5.293	-5.350	-5.350	0.95	-10.858	-0.019	0.975	0.050
f.age13 - f.age18, M, 2	-21.223	-21.400	-21.400	0.95	-30.184	-13.374	1.000	0.000
f.age13 - f.age21, M, 2	-19.587	-19.752	-19.752	0.95	-32.207	-7.960	1.000	0.000
f.age15 - f.age18, M, 2	-15.869	-16.050	-16.050	0.95	-25.001	-8.331	1.000	0.000
f.age15 - f.age21, M, 2	-14.189	-14.403	-14.403	0.95	-25.987	-4.404	0.999	0.003
f.age18 - f.age21, M, 2	1.585	1.647	1.647	0.95	-9.031	12.519	0.617	0.766
f.age11 - f.age13, F, 4	7.460	7.435	7.435	0.95	0.290	14.366	0.979	0.042
f.age11 - f.age15, F, 4	2.177	2.086	2.086	0.95	-7.035	10.590	0.686	0.628
f.age11 - f.age18, F, 4	-13.906	-13.964	-13.964	0.95	-23.739	-4.523	0.999	0.002
f.age11 - f.age21, F, 4	-12.248	-12.317	-12.317	0.95	-25.774	0.503	0.969	0.063
f.age13 - f.age15, F, 4	-5.293	-5.350	-5.350	0.95	-10.858	-0.019	0.975	0.050
f.age13 - f.age18, F, 4	-21.223	-21.400	-21.400	0.95	-30.184	-13.374	1.000	0.000
f.age13 - f.age21, F, 4	-19.587	-19.752	-19.752	0.95	-32.207	-7.960	1.000	0.000
f.age15 - f.age18, F, 4	-15.869	-16.050	-16.050	0.95	-25.001	-8.331	1.000	0.000
f.age15 - f.age21, F, 4	-14.189	-14.403	-14.403	0.95	-25.987	-4.404	0.999	0.003
f.age18 - f.age21, F, 4	1.585	1.647	1.647	0.95	-9.031	12.519	0.617	0.766
f.age11 - f.age13, M, 4	7.460	7.435	7.435	0.95	0.290	14.366	0.979	0.042
f.age11 - f.age15, M, 4	2.177	2.086	2.086	0.95	-7.035	10.590	0.686	0.628
f.age11 - f.age18, M, 4	-13.906	-13.964	-13.964	0.95	-23.739	-4.523	0.999	0.002
f.age11 - f.age21, M, 4	-12.248	-12.317	-12.317	0.95	-25.774	0.503	0.969	0.063
f.age13 - f.age15, M, 4	-5.293	-5.350	-5.350	0.95	-10.858	-0.019	0.975	0.050
f.age13 - f.age18, M, 4	-21.223	-21.400	-21.400	0.95	-30.184	-13.374	1.000	0.000
f.age13 - f.age21, M, 4	-19.587	-19.752	-19.752	0.95	-32.207	-7.960	1.000	0.000
f.age15 - f.age18, M, 4	-15.869	-16.050	-16.050	0.95	-25.001	-8.331	1.000	0.000
f.age15 - f.age21, M, 4	-14.189	-14.403	-14.403	0.95	-25.987	-4.404	0.999	0.003
f.age18 - f.age21, M, 4	1.585	1.647	1.647	0.95	-9.031	12.519	0.617	0.766

Parameter	Median	Mean	Mean.1	CI	CI_low	CI_high	pd	pval
:-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:
M - F, 2, 11	-5.623	-5.592	-5.592	0.95	-14.007	2.918	0.905	0.19
M - F, 4, 11	-5.623	-5.592	-5.592	0.95	-14.007	2.918	0.905	0.19
M - F, 2, 13	-5.623	-5.592	-5.592	0.95	-14.007	2.918	0.905	0.19
M - F, 4, 13	-5.623	-5.592	-5.592	0.95	-14.007	2.918	0.905	0.19
M - F, 2, 15	-5.623	-5.592	-5.592	0.95	-14.007	2.918	0.905	0.19
M - F, 4, 15	-5.623	-5.592	-5.592	0.95	-14.007	2.918	0.905	0.19
M - F, 2, 18	-5.623	-5.592	-5.592	0.95	-14.007	2.918	0.905	0.19
M - F, 4, 18	-5.623	-5.592	-5.592	0.95	-14.007	2.918	0.905	0.19
M - F, 2, 21	-5.623	-5.592	-5.592	0.95	-14.007	2.918	0.905	0.19
M - F, 4, 21	-5.623	-5.592	-5.592	0.95	-14.007	2.918	0.905	0.19

Parameter	Median	Mean	Mean.1	CI	CI_low	CI_high	pd	pval
:-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:
f.layer4 - f.layer2, F, 11	6.162	6.199	6.199	0.95	0.344	12.427	0.981	0.038
f.layer4 - f.layer2, M, 11	6.162	6.199	6.199	0.95	0.344	12.427	0.981	0.038
f.layer4 - f.layer2, F, 13	6.162	6.199	6.199	0.95	0.344	12.427	0.981	0.038

f.layer4 - f.layer2, M, 13		6.162		6.199	0.95	0.344	12.427	0.981	0.038
f.layer4 - f.layer2, F, 15		6.162		6.199	0.95	0.344	12.427	0.981	0.038
f.layer4 - f.layer2, M, 15		6.162		6.199	0.95	0.344	12.427	0.981	0.038
f.layer4 - f.layer2, F, 18		6.162		6.199	0.95	0.344	12.427	0.981	0.038
f.layer4 - f.layer2, M, 18		6.162		6.199	0.95	0.344	12.427	0.981	0.038
f.layer4 - f.layer2, F, 21		6.162		6.199	0.95	0.344	12.427	0.981	0.038
f.layer4 - f.layer2, M, 21		6.162		6.199	0.95	0.344	12.427	0.981	0.038

Figure 3F and Figure Supp 2K (Distance of neuron to subnetwork centroid)

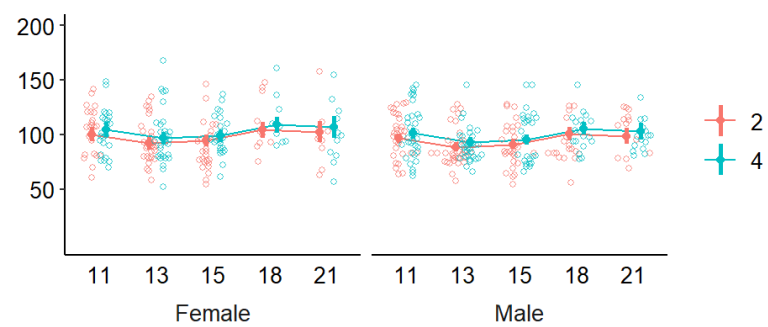


Table: ANOVA table before bootstrapping

	F	Df	Df.res	Pr(>F)
:-----	-----	---	-----	-----
(Intercept)	1043.639	1	61.504	0.000
f.age	5.781	4	408.969	0.000
sex	1.120	1	28.598	0.299
f.layer	6.272	1	371.941	0.013

Table: Main effect after bootstrapping

Parameter	Median	Mean	CI	CI_low	CI_high	pd	pval
:-----	-----	-----	-----	-----	-----	-----	-----
f.age11 - f.age13	7.998	7.977	0.95	3.227	12.702	0.999	0.002
f.age11 - f.age15	5.750	5.684	0.95	-0.753	11.644	0.960	0.080
f.age11 - f.age18	-4.183	-4.256	0.95	-11.470	2.753	0.882	0.236
f.age11 - f.age21	-2.084	-2.164	0.95	-11.795	6.982	0.670	0.660
f.age13 - f.age15	-2.284	-2.293	0.95	-6.150	1.338	0.889	0.222
f.age13 - f.age18	-12.172	-12.233	0.95	-18.106	-6.720	1.000	0.001
f.age13 - f.age21	-10.037	-10.141	0.95	-19.216	-1.702	0.991	0.018
f.age15 - f.age18	-9.809	-9.940	0.95	-16.011	-4.487	1.000	0.000
f.age15 - f.age21	-7.729	-7.848	0.95	-15.672	-0.884	0.988	0.025
f.age18 - f.age21	2.100	2.092	0.95	-5.437	9.698	0.705	0.589

Parameter	Median	Mean	CI	CI_low	CI_high	pd	pval
:-----	-----	-----	-----	-----	-----	-----	-----
F - M	3.52	3.561	0.95	-2.294	9.546	0.889	0.222

Parameter	Median	Mean	CI	CI_low	CI_high	pd	pval
:-----	-----	-----	-----	-----	-----	-----	-----
f.layer2 - f.layer4	-4.322	-4.396	0.95	-8.897	-0.326	0.983	0.033

Table: Post-hoc comparison with bootstrapping output

Parameter	Median	Mean	Mean.1	CI	CI_low	CI_high	pd	pval
:-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:
f.age11 - f.age13, F, 2	7.998	7.977	7.977	0.95	3.227	12.702	0.999	0.002
f.age11 - f.age15, F, 2	5.750	5.684	5.684	0.95	-0.753	11.644	0.960	0.080
f.age11 - f.age18, F, 2	-4.183	-4.256	-4.256	0.95	-11.470	2.753	0.882	0.236
f.age11 - f.age21, F, 2	-2.084	-2.164	-2.164	0.95	-11.795	6.982	0.670	0.660
f.age13 - f.age15, F, 2	-2.284	-2.293	-2.293	0.95	-6.150	1.338	0.889	0.222
f.age13 - f.age18, F, 2	-12.172	-12.233	-12.233	0.95	-18.106	-6.720	1.000	0.001
f.age13 - f.age21, F, 2	-10.037	-10.141	-10.141	0.95	-19.216	-1.702	0.991	0.018
f.age15 - f.age18, F, 2	-9.809	-9.940	-9.940	0.95	-16.011	-4.487	1.000	0.000
f.age15 - f.age21, F, 2	-7.729	-7.848	-7.848	0.95	-15.672	-0.884	0.988	0.025
f.age18 - f.age21, F, 2	2.100	2.092	2.092	0.95	-5.437	9.698	0.705	0.589
f.age11 - f.age13, M, 2	7.998	7.977	7.977	0.95	3.227	12.702	0.999	0.002
f.age11 - f.age15, M, 2	5.750	5.684	5.684	0.95	-0.753	11.644	0.960	0.080
f.age11 - f.age18, M, 2	-4.183	-4.256	-4.256	0.95	-11.470	2.753	0.882	0.236
f.age11 - f.age21, M, 2	-2.084	-2.164	-2.164	0.95	-11.795	6.982	0.670	0.660
f.age13 - f.age15, M, 2	-2.284	-2.293	-2.293	0.95	-6.150	1.338	0.889	0.222
f.age13 - f.age18, M, 2	-12.172	-12.233	-12.233	0.95	-18.106	-6.720	1.000	0.001
f.age13 - f.age21, M, 2	-10.037	-10.141	-10.141	0.95	-19.216	-1.702	0.991	0.018
f.age15 - f.age18, M, 2	-9.809	-9.940	-9.940	0.95	-16.011	-4.487	1.000	0.000
f.age15 - f.age21, M, 2	-7.729	-7.848	-7.848	0.95	-15.672	-0.884	0.988	0.025
f.age18 - f.age21, M, 2	2.100	2.092	2.092	0.95	-5.437	9.698	0.705	0.589
f.age11 - f.age13, F, 4	7.998	7.977	7.977	0.95	3.227	12.702	0.999	0.002
f.age11 - f.age15, F, 4	5.750	5.684	5.684	0.95	-0.753	11.644	0.960	0.080
f.age11 - f.age18, F, 4	-4.183	-4.256	-4.256	0.95	-11.470	2.753	0.882	0.236
f.age11 - f.age21, F, 4	-2.084	-2.164	-2.164	0.95	-11.795	6.982	0.670	0.660
f.age13 - f.age15, F, 4	-2.284	-2.293	-2.293	0.95	-6.150	1.338	0.889	0.222
f.age13 - f.age18, F, 4	-12.172	-12.233	-12.233	0.95	-18.106	-6.720	1.000	0.001
f.age13 - f.age21, F, 4	-10.037	-10.141	-10.141	0.95	-19.216	-1.702	0.991	0.018
f.age15 - f.age18, F, 4	-9.809	-9.940	-9.940	0.95	-16.011	-4.487	1.000	0.000
f.age15 - f.age21, F, 4	-7.729	-7.848	-7.848	0.95	-15.672	-0.884	0.988	0.025
f.age18 - f.age21, F, 4	2.100	2.092	2.092	0.95	-5.437	9.698	0.705	0.589
f.age11 - f.age13, M, 4	7.998	7.977	7.977	0.95	3.227	12.702	0.999	0.002
f.age11 - f.age15, M, 4	5.750	5.684	5.684	0.95	-0.753	11.644	0.960	0.080
f.age11 - f.age18, M, 4	-4.183	-4.256	-4.256	0.95	-11.470	2.753	0.882	0.236
f.age11 - f.age21, M, 4	-2.084	-2.164	-2.164	0.95	-11.795	6.982	0.670	0.660
f.age13 - f.age15, M, 4	-2.284	-2.293	-2.293	0.95	-6.150	1.338	0.889	0.222
f.age13 - f.age18, M, 4	-12.172	-12.233	-12.233	0.95	-18.106	-6.720	1.000	0.001
f.age13 - f.age21, M, 4	-10.037	-10.141	-10.141	0.95	-19.216	-1.702	0.991	0.018
f.age15 - f.age18, M, 4	-9.809	-9.940	-9.940	0.95	-16.011	-4.487	1.000	0.000
f.age15 - f.age21, M, 4	-7.729	-7.848	-7.848	0.95	-15.672	-0.884	0.988	0.025
f.age18 - f.age21, M, 4	2.100	2.092	2.092	0.95	-5.437	9.698	0.705	0.589

Parameter	Median	Mean	Mean.1	CI	CI_low	CI_high	pd	pval
:-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:
M - F, 2, 11	-3.52	-3.561	-3.561	0.95	-9.546	2.294	0.889	0.222
M - F, 4, 11	-3.52	-3.561	-3.561	0.95	-9.546	2.294	0.889	0.222
M - F, 2, 13	-3.52	-3.561	-3.561	0.95	-9.546	2.294	0.889	0.222
M - F, 4, 13	-3.52	-3.561	-3.561	0.95	-9.546	2.294	0.889	0.222
M - F, 2, 15	-3.52	-3.561	-3.561	0.95	-9.546	2.294	0.889	0.222
M - F, 4, 15	-3.52	-3.561	-3.561	0.95	-9.546	2.294	0.889	0.222
M - F, 2, 18	-3.52	-3.561	-3.561	0.95	-9.546	2.294	0.889	0.222
M - F, 4, 18	-3.52	-3.561	-3.561	0.95	-9.546	2.294	0.889	0.222
M - F, 2, 21	-3.52	-3.561	-3.561	0.95	-9.546	2.294	0.889	0.222
M - F, 4, 21	-3.52	-3.561	-3.561	0.95	-9.546	2.294	0.889	0.222

Parameter	Median	Mean	Mean.1	CI	CI_low	CI_high	pd	pval
:-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:	-----:
f.layer4 - f.layer2, F, 11	4.322	4.396	4.396	0.95	0.326	8.897	0.983	0.033
f.layer4 - f.layer2, M, 11	4.322	4.396	4.396	0.95	0.326	8.897	0.983	0.033
f.layer4 - f.layer2, F, 13	4.322	4.396	4.396	0.95	0.326	8.897	0.983	0.033

f.layer4 - f.layer2, M, 13		4.322		4.396		4.396		0.95		0.326		8.897		0.983		0.033	
f.layer4 - f.layer2, F, 15		4.322		4.396		4.396		0.95		0.326		8.897		0.983		0.033	
f.layer4 - f.layer2, M, 15		4.322		4.396		4.396		0.95		0.326		8.897		0.983		0.033	
f.layer4 - f.layer2, F, 18		4.322		4.396		4.396		0.95		0.326		8.897		0.983		0.033	
f.layer4 - f.layer2, M, 18		4.322		4.396		4.396		0.95		0.326		8.897		0.983		0.033	
f.layer4 - f.layer2, F, 21		4.322		4.396		4.396		0.95		0.326		8.897		0.983		0.033	
f.layer4 - f.layer2, M, 21		4.322		4.396		4.396		0.95		0.326		8.897		0.983		0.033	

Figure 3G and Figure Supp 2L (Pairwise distances between centroids)

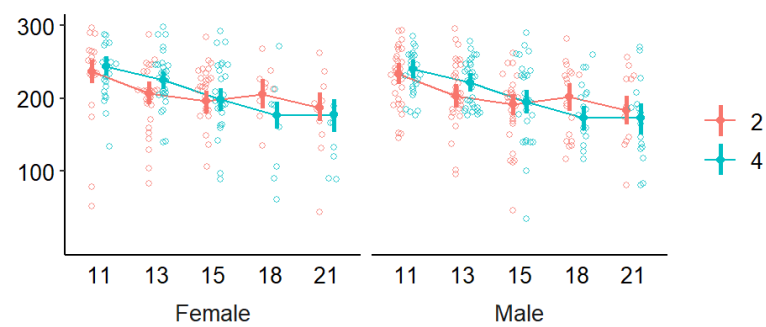


Table: ANOVA table before bootstrapping

		F		Df		Df.res		Pr(>F)	
:-----:		-----:		--:		-----:		-----:	
(Intercept)		700.921		1		62.648		0.000	
f.age		8.797		4		378.228		0.000	
sex		0.182		1		29.259		0.672	
f.layer		0.871		1		357.722		0.351	
f.age:f.layer		3.518		4		360.821		0.008	

Table: Main effect after bootstrapping

Parameter		Median		Mean		CI		CI_low		CI_high		pd		pval	
:-----:		-----:		-----:		-----:		-----:		-----:		-----:		-----:	
f.age11 - f.age13		24.384		24.308		0.95		10.995		37.114		0.999		0.001	
f.age11 - f.age15		43.520		43.590		0.95		30.650		56.764		1.000		0.000	
f.age11 - f.age18		49.378		49.282		0.95		34.603		63.496		1.000		0.000	
f.age11 - f.age21		57.879		58.167		0.95		45.265		72.759		1.000		0.000	
f.age13 - f.age15		19.210		19.282		0.95		7.315		31.809		1.000		0.001	
f.age13 - f.age18		25.402		24.974		0.95		8.530		38.725		0.998		0.004	
f.age13 - f.age21		33.813		33.859		0.95		19.816		48.123		1.000		0.000	
f.age15 - f.age18		6.434		5.692		0.95		-12.407		20.151		0.771		0.458	
f.age15 - f.age21		14.550		14.577		0.95		-0.945		30.068		0.968		0.064	
f.age18 - f.age21		8.664		8.885		0.95		-2.724		21.563		0.931		0.137	

Parameter		Median		Mean		CI		CI_low		CI_high		pd		pval	
:-----:		-----:		-----:		-----:		-----:		-----:		-----:		-----:	
F - M		4.112		3.98		0.95		-10.918		18.781		0.705		0.59	

Parameter		Median		Mean		CI		CI_low		CI_high		pd		pval	
:-----:		-----:		-----:		-----:		-----:		-----:		-----:		-----:	
f.layer2 - f.layer4		2.189		2.334		0.95		-4.641		10.147		0.724		0.552	

Table: Post-hoc comparison with bootstrapping output

Parameter	Median	Mean	Mean.1	CI	CI_low	CI_high	pd	pval
:-----	-----	-----	-----	-----	-----	-----	-----	-----
f.age11 - f.age13, F, 2	30.054	29.699	29.699	0.95	10.779	47.368	0.999	0.002
f.age11 - f.age15, F, 2	41.520	41.523	41.523	0.95	24.482	58.793	1.000	0.000
f.age11 - f.age18, F, 2	31.343	31.255	31.255	0.95	10.544	51.737	0.998	0.003
f.age11 - f.age21, F, 2	48.995	48.997	48.997	0.95	31.470	66.066	1.000	0.000
f.age13 - f.age15, F, 2	11.708	11.824	11.824	0.95	-6.431	30.646	0.895	0.211
f.age13 - f.age18, F, 2	1.960	1.557	1.557	0.95	-21.655	22.564	0.574	0.853
f.age13 - f.age21, F, 2	19.743	19.299	19.299	0.95	-3.272	40.410	0.953	0.093
f.age15 - f.age18, F, 2	-9.843	-10.268	-10.268	0.95	-31.969	9.307	0.848	0.304
f.age15 - f.age21, F, 2	7.879	7.474	7.474	0.95	-13.228	26.573	0.769	0.461
f.age18 - f.age21, F, 2	17.761	17.742	17.742	0.95	-0.630	36.041	0.971	0.058
f.age11 - f.age13, M, 2	30.054	29.699	29.699	0.95	10.779	47.368	0.999	0.002
f.age11 - f.age15, M, 2	41.520	41.523	41.523	0.95	24.482	58.793	1.000	0.000
f.age11 - f.age18, M, 2	31.343	31.255	31.255	0.95	10.544	51.737	0.998	0.003
f.age11 - f.age21, M, 2	48.995	48.997	48.997	0.95	31.470	66.066	1.000	0.000
f.age13 - f.age15, M, 2	11.708	11.824	11.824	0.95	-6.431	30.646	0.895	0.211
f.age13 - f.age18, M, 2	1.960	1.557	1.557	0.95	-21.655	22.564	0.574	0.853
f.age13 - f.age21, M, 2	19.743	19.299	19.299	0.95	-3.272	40.410	0.953	0.093
f.age15 - f.age18, M, 2	-9.843	-10.268	-10.268	0.95	-31.969	9.307	0.848	0.304
f.age15 - f.age21, M, 2	7.879	7.474	7.474	0.95	-13.228	26.573	0.769	0.461
f.age18 - f.age21, M, 2	17.761	17.742	17.742	0.95	-0.630	36.041	0.971	0.058
f.age11 - f.age13, F, 4	18.792	18.917	18.917	0.95	5.006	32.949	0.996	0.008
f.age11 - f.age15, F, 4	45.597	45.657	45.657	0.95	29.889	61.579	1.000	0.000
f.age11 - f.age18, F, 4	67.115	67.309	67.309	0.95	48.327	87.705	1.000	0.000
f.age11 - f.age21, F, 4	66.795	67.338	67.338	0.95	48.927	89.384	1.000	0.000
f.age13 - f.age15, F, 4	26.804	26.740	26.740	0.95	12.469	40.524	1.000	0.001
f.age13 - f.age18, F, 4	47.843	48.391	48.391	0.95	30.715	67.851	1.000	0.000
f.age13 - f.age21, F, 4	47.933	48.420	48.420	0.95	29.429	70.299	1.000	0.000
f.age15 - f.age18, F, 4	22.035	21.651	21.651	0.95	0.958	40.875	0.981	0.039
f.age15 - f.age21, F, 4	21.336	21.680	21.680	0.95	-2.115	47.860	0.962	0.076
f.age18 - f.age21, F, 4	0.012	0.029	0.029	0.95	-28.710	27.861	0.501	0.998
f.age11 - f.age13, M, 4	18.792	18.917	18.917	0.95	5.006	32.949	0.996	0.008
f.age11 - f.age15, M, 4	45.597	45.657	45.657	0.95	29.889	61.579	1.000	0.000
f.age11 - f.age18, M, 4	67.115	67.309	67.309	0.95	48.327	87.705	1.000	0.000
f.age11 - f.age21, M, 4	66.795	67.338	67.338	0.95	48.927	89.384	1.000	0.000
f.age13 - f.age15, M, 4	26.804	26.740	26.740	0.95	12.469	40.524	1.000	0.001
f.age13 - f.age18, M, 4	47.843	48.391	48.391	0.95	30.715	67.851	1.000	0.000
f.age13 - f.age21, M, 4	47.933	48.420	48.420	0.95	29.429	70.299	1.000	0.000
f.age15 - f.age18, M, 4	22.035	21.651	21.651	0.95	0.958	40.875	0.981	0.039
f.age15 - f.age21, M, 4	21.336	21.680	21.680	0.95	-2.115	47.860	0.962	0.076
f.age18 - f.age21, M, 4	0.012	0.029	0.029	0.95	-28.710	27.861	0.501	0.998

Parameter	Median	Mean	Mean.1	CI	CI_low	CI_high	pd	pval
:-----	-----	-----	-----	-----	-----	-----	-----	-----
M - F, 2, 11	-4.112	-3.98	-3.98	0.95	-18.781	10.918	0.705	0.59
M - F, 4, 11	-4.112	-3.98	-3.98	0.95	-18.781	10.918	0.705	0.59
M - F, 2, 13	-4.112	-3.98	-3.98	0.95	-18.781	10.918	0.705	0.59
M - F, 4, 13	-4.112	-3.98	-3.98	0.95	-18.781	10.918	0.705	0.59
M - F, 2, 15	-4.112	-3.98	-3.98	0.95	-18.781	10.918	0.705	0.59
M - F, 4, 15	-4.112	-3.98	-3.98	0.95	-18.781	10.918	0.705	0.59
M - F, 2, 18	-4.112	-3.98	-3.98	0.95	-18.781	10.918	0.705	0.59
M - F, 4, 18	-4.112	-3.98	-3.98	0.95	-18.781	10.918	0.705	0.59
M - F, 2, 21	-4.112	-3.98	-3.98	0.95	-18.781	10.918	0.705	0.59
M - F, 4, 21	-4.112	-3.98	-3.98	0.95	-18.781	10.918	0.705	0.59

Parameter	Median	Mean	Mean.1	CI	CI_low	CI_high	pd	pval
:-----	-----	-----	-----	-----	-----	-----	-----	-----
f.layer4 - f.layer2, F, 11	7.112	7.215	7.215	0.95	-5.146	20.182	0.868	0.265
f.layer4 - f.layer2, M, 11	7.112	7.215	7.215	0.95	-5.146	20.182	0.868	0.265
f.layer4 - f.layer2, F, 13	17.913	17.997	17.997	0.95	4.054	31.914	0.995	0.011

f.layer4 - f.layer2, M, 13		17.913		17.997		17.997		0.95		4.054		31.914		0.995		0.011	
f.layer4 - f.layer2, F, 15		2.907		3.081		3.081		0.95		-10.108		16.782		0.666		0.667	
f.layer4 - f.layer2, M, 15		2.907		3.081		3.081		0.95		-10.108		16.782		0.666		0.667	
f.layer4 - f.layer2, F, 18		-28.645		-28.838		-28.838		0.95		-51.303		-6.958		0.995		0.009	
f.layer4 - f.layer2, M, 18		-28.645		-28.838		-28.838		0.95		-51.303		-6.958		0.995		0.009	
f.layer4 - f.layer2, F, 21		-10.569		-11.125		-11.125		0.95		-41.249		15.581		0.778		0.444	
f.layer4 - f.layer2, M, 21		-10.569		-11.125		-11.125		0.95		-41.249		15.581		0.778		0.444	