Association of microbiome vs brain in GIMA dataset

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Spaghetti plot of behavior data

Microbiome neo vs brain volume

Table 1: microbiome_vs_brain_neo: neo.WM vs wunifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	166903.25	2876.962	58.013715	0.0000000
wunifrac.PC.1	-12964.26	10385.071	-1.248355	0.2234661

Table 2: microbiome_vs_brain_neo: neo.WM vs wunifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	166848.38	2969.064	56.195609	0.0000000
wunifrac.PC.2	1021.33	21316.803	0.047912	0.9621671

Table 3: microbiome_vs_brain_neo: neo.WM vs wunifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	166807.558	2964.805	56.2625735	0.0000000
wunifrac.PC.3	5766.237	24355.889	0.2367492	0.8147805

Table 4: microbiome_vs_brain_neo: neo.WM vs wunifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	166357.20	2895.138	57.460892	0.0000000
wunifrac.PC.4	37028.98	28699.720	1.290221	0.2087808

Table 5: microbiome_vs_brain_neo: neo.WM vs unifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	166986.33	2856.539	58.457562	0.000000
unifrac.PC.1	-26060.92	18581.920	-1.402488	0.173066

Table 6: microbiome_vs_brain_neo: neo.WM vs unifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	166939.26	2930.54	56.9653668	0.0000000

	Estimate	Std. Error	t value	Pr(>|t|)
unifrac.PC.2	-16703.01	20974.86	-0.7963344	0.4333351

Table 7: microbiome_vs_brain_neo: neo.WM vs unifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	166928.90	2869.257	58.178445	0.0000000
unifrac.PC.3	27763.47	21244.284	1.306868	0.2031519

Table 8: microbiome_vs_brain_neo: neo.WM vs unifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	166809.03	2959.872	56.3568348	0.0000000
unifrac.PC.4	-10128.18	30560.967	-0.3314089	0.7430978

Table 9: microbiome_vs_brain_neo: neo.WM vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	176341.41843	9821.75873	17.954159	0.0000000
chao1	-96.94511	95.73393	-1.012652	0.3209277

Table 10: microbiome_vs_brain_neo: neo.WM vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	176844.2274	10014.0640	17.659586	0.0000000
observed_otus	-169.1168	162.0283	-1.043748	0.3065902

Table 11: microbiome_vs_brain_neo: neo.WM vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	175925.889	14224.726	12.3676116	0.0000000
PD_whole_tree	-1876.652	2874.833	-0.6527866	0.5198522

Table 12: microbiome_vs_brain_neo: neo.WM vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	173987.264	14763.840	11.7846890	0.0000000
shannon	-2583.315	5229.095	-0.4940271	0.6255999

Table 13: microbiome_vs_brain_neo: neo.GM vs wunifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	276740.59	6869.174	40.287316	0.0000000
wunifrac.PC.1	-43114.77	24795.898	-1.738786	0.0943746

Table 14: microbiome_vs_brain_neo: neo.GM vs wunifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	276524.33	7282.251	37.9723673	0.0000000
wunifrac.PC.2	-1068.87	52283.921	-0.0204436	0.9838518

Table 15: microbiome_vs_brain_neo: neo.GM vs wunifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	276593.57	7275.056	38.0194432	0.0000000
wunifrac.PC.3	-10654.35	59764.623	-0.1782718	0.8599462

Table 16: microbiome_vs_brain_neo: neo.GM vs wunifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	276025.76	7291.348	37.8566165	0.0000000
wunifrac.PC.4	38805.39	72279.682	0.5368783	0.5960979

Table 17: microbiome_vs_brain_neo: neo.GM vs unifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	276748.73	7178.451	38.5527097	0.0000000
unifrac.PC.1	-38699.86	46696.151	-0.8287591	0.4150835

Table 18: microbiome_vs_brain_neo: neo.GM vs unifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	276904.04	7062.297	39.208780	0.0000000
unifrac.PC.2	-62952.11	50547.243	-1.245411	0.2245275

Table 19: microbiome_vs_brain_neo: neo.GM vs unifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	276754.25	7025.00	39.395625	0.0000000
unifrac.PC.3	69796.76	52013.85	1.341888	0.1916938

Table 20: microbiome_vs_brain_neo: neo.GM vs unifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	276502.558	7273.006	38.0176469	0.0000000
unifrac.PC.4	-9559.209	75094.485	-0.1272958	0.8997247

Table 21: microbiome_vs_brain_neo: neo.GM vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	289819.7003	24420.1414	11.8680599	0.000000
chao1	-135.5826	238.0262	-0.5696121	0.574024

Table 22: microbiome_vs_brain_neo: neo.GM vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	285037.3532	25027.0657	11.3891639	0.000000
observed_otus	-143.7816	404.9399	-0.3550689	0.725516

Table 23: microbiome_vs_brain_neo: neo.GM vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	292809.905	35026.200	8.3597395	0.0000000
PD_whole_tree	-3362.293	7078.834	-0.4749783	0.6389258

Table 24: microbiome_vs_brain_neo: neo.GM vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	269090.594	36354.65	7.4018209	0.0000001
shannon	2690.025	12876.18	0.2089147	0.8362077

Table 25: microbiome_vs_brain_neo: neo.CSF vs wunifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	65604.300	3409.067	19.2440623	0.0000000
wunifrac.PC.1	-6732.491	12305.829	-0.5470977	0.5891625

Table 26: microbiome_vs_brain_neo: neo.CSF vs wunifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	65414.73	3384.823	19.3258964	0.0000000
wunifrac.PC.2	-20778.09	24301.797	-0.8550022	0.4006698

Table 27: microbiome_vs_brain_neo: neo.CSF vs wunifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	65750.63	3347.865	19.639568	0.0000000
wunifrac.PC.3	-31155.06	27502.732	-1.132799	0.2680466

Table 28: microbiome_vs_brain_neo: neo.CSF vs wunifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	64881.12	3289.156	19.72577	0.0000000
wunifrac.PC.4	52899.73	32605.650	1.62241	0.1172605

Table 29: microbiome_vs_brain_neo: neo.CSF vs unifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	65700.98	3356.785	19.572591	0.0000000
unifrac.PC.1	-23110.56	21836.038	-1.058368	0.3000074

Table 30: microbiome_vs_brain_neo: neo.CSF vs unifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	65914.19	3025.167	21.788609	0.0000000
unifrac.PC.2	-57999.83	21652.144	-2.678711	0.0128765

Table 31: microbiome_vs_brain_neo: neo.CSF vs unifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	65565.707	3429.453	19.1184147	0.0000000
unifrac.PC.3	-1914.775	25392.037	-0.0754085	0.9404899

Table 32: microbiome_vs_brain_neo: neo.CSF vs unifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	65386.54	3232.475	20.228010	0.000000
unifrac.PC.4	-59327.74	33375.616	-1.777577	0.087642

Table 33: microbiome_vs_brain_neo: neo.CSF vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	73446.06045	11471.8712	6.4022738	0.0000011
chao1	-80.34848	111.8178	-0.7185663	0.4790708

Table 34: microbiome_vs_brain_neo: neo.CSF vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	68877.98036	11810.9729	5.8316940	0.0000044
observed_otus	-55.89323	191.1025	-0.2924778	0.7723350

Table 35: microbiome_vs_brain_neo: neo.CSF vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	67175.1765	16587.625	4.0497163	0.0004360
PD_whole_tree	-331.1962	3352.378	-0.0987944	0.9220894

Table 36: microbiome_vs_brain_neo: neo.CSF vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	49583.075	16844.651	2.943550	0.0069123
shannon	5779.511	5966.083	0.968728	0.3419602

Table 37: microbiome_vs_brain_neo: neo.ICV vs wunifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	509248.14	11606.12	43.87755	0.0000000
wunifrac.PC.1	-62811.52	41895.02	-1.49926	0.1463293

Table 38: microbiome_vs_brain_neo: neo.ICV vs wunifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	508787.44	12118.81	41.9832709	0.0000000
wunifrac.PC.2	-20825.63	87008.68	-0.2393512	0.8127847

Table 39: microbiome_vs_brain_neo: neo.ICV vs wunifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	509151.75	12096.52	42.090772	0.000000
wunifrac.PC.3	-36043.17	99372.96	-0.362706	0.719873

Table 40: microbiome_vs_brain_neo: neo.ICV vs wunifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	507264.1	11938.31	42.490430	0.0000000
wunifrac.PC.4	128734.1	118345.41	1.087783	0.2870673

Table 41: microbiome_vs_brain_neo: neo.ICV vs unifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	509436.04	11817.96	43.106947	0.0000000
unifrac.PC.1	-87871.34	76876.35	-1.143022	0.2638579

Table 42: microbiome_vs_brain_neo: neo.ICV vs unifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	509757.5	11499.36	44.329210	0.000000
unifrac.PC.2	-137654.9	82304.80	-1.672502	0.106896

Table 43: microbiome_vs_brain_neo: neo.ICV vs unifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	509248.86	11839.56	43.012497	0.0000000
unifrac.PC.3	95645.46	87661.34	1.091079	0.2856425

Table 44: microbiome_vs_brain_neo: neo.ICV vs unifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	508698.12	12024.09	42.3065729	0.0000000
unifrac.PC.4	-79015.13	124149.91	-0.6364493	0.5302683

Table 45: microbiome_vs_brain_neo: neo.ICV vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	539607.1792	40441.9369	13.3427630	0.0000000
chao1	-312.8762	394.1927	-0.7937139	0.4348314

Table 46: microbiome_vs_brain_neo: neo.ICV vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	530759.5609	41552.0200	12.7733757	0.0000000
observed_otus	-368.7916	672.3149	-0.5485399	0.5881869

Table 47: microbiome_vs_brain_neo: neo.ICV vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	535910.970	58358.34	9.1831090	0.0000000
PD_whole_tree	-5570.141	11794.29	-0.4722746	0.6408274

Table 48: microbiome_vs_brain_neo: neo.ICV vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	492660.933	60530.29	8.1390806	0.0000000
shannon	5886.221	21438.78	0.2745595	0.7859108

Table 49: microbiome_vs_brain_neo: neo.Hippocampus_LR vs wunifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	879.35167	20.63185	42.621071	0.0000000
wunifrac.PC.1	-94.49389	74.47552	-1.268791	0.2162024

Table 50: microbiome_vs_brain_neo: neo.Hippocampus_LR vs wunifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	877.7922	20.92264	41.9541859	0.0000000
wunifrac.PC.2	-145.9404	150.21694	-0.9715306	0.3405908

Table 51: microbiome_vs_brain_neo: neo.Hippocampus_LR vs wunifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	878.9890	21.30254	41.2621767	0.0000000
wunifrac.PC.3	-16.3068	175.00045	-0.0931815	0.9265021

Table 52: microbiome_vs_brain_neo: neo.Hippocampus_LR vs wunifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	876.3983	21.11335	41.5091949	0.0000000
wunifrac.PC.4	191.2554	209.29828	0.9137936	0.3695546

Table 53: microbiome_vs_brain_neo: neo.Hippocampus_LR vs unifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	879.8301	20.66676	42.572230	0.0000000
unifrac.PC.1	-167.2153	134.43823	-1.243808	0.2251073

Table 54: microbiome_vs_brain_neo: neo.Hippocampus_LR vs unifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	879.7474	20.91631	42.0603502	0.0000000
unifrac.PC.2	-144.3236	149.70511	-0.9640528	0.3442528

Table 55: microbiome_vs_brain_neo: neo.Hippocampus_LR vs unifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	879.6978	20.16658	43.621577	0.0000000
unifrac.PC.3	252.4638	149.31548	1.690808	0.1033055

Table 56: microbiome_vs_brain_neo: neo.Hippocampus_LR vs unifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	878.67146	21.24824	41.3526707	0.0000000
unifrac.PC.4	-71.71719	219.39013	-0.3268934	0.7464697

Table 57: microbiome_vs_brain_neo: neo.Hippocampus_LR vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	947.1185798	70.5029717	13.433740	0.000000
chao1	-0.6961445	0.6872014	-1.013014	0.320758

Table 58: microbiome_vs_brain_neo: neo.Hippocampus_LR vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	907.2044039	73.195264	12.3943047	0.0000000
observed_otus	-0.4785817	1.184305	-0.4041034	0.6895729

Table 59: microbiome_vs_brain_neo: neo.Hippocampus_LR vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	938.54167	102.25220	9.1786940	0.000000
PD_whole_tree	-12.32058	20.66528	-0.5961969	0.556404

Table 60: microbiome_vs_brain_neo: neo.Hippocampus_LR vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	817.82845	105.76400	7.7325789	0.0000000
shannon	22.07414	37.45977	0.5892759	0.5609641

Table 61: microbiome_vs_brain_neo: neo.Amygdala_LR vs wunifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	900.6971	22.19134	40.587767	0.0000000
wunifrac.PC.1	-214.8247	80.10487	-2.681793	0.0127852

Table 62: microbiome_vs_brain_neo: neo.Amygdala_LR vs wunifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	899.37381	25.19315	35.6991462	0.0000000
wunifrac.PC.2	-37.84053	180.87764	-0.2092051	0.8359835

Table 63: microbiome_vs_brain_neo: neo.Amygdala_LR vs wunifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	899.76512	25.20211	35.7019690	0.0000000
wunifrac.PC.3	-18.33822	207.03551	-0.0885753	0.9301252

Table 64: microbiome_vs_brain_neo: neo.Amygdala_LR vs wunifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	900.90154	25.3190	35.582039	0.0000000
wunifrac.PC.4	-95.10355	250.9891	-0.378915	0.7079501

Table 65: microbiome_vs_brain_neo: neo.Amygdala_LR vs unifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	901.2853	23.55501	38.263003	0.000000
unifrac.PC.1	-290.7944	153.22640	-1.897809	0.069327

Table 66: microbiome_vs_brain_neo: neo.Amygdala_LR vs unifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	900.03278	25.13863	35.8027783	0.0000000
unifrac.PC.2	-63.17285	179.92567	-0.3511053	0.7284511

Table 67: microbiome_vs_brain_neo: neo.Amygdala_LR vs unifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	900.8966	22.88686	39.363047	0.0000000
unifrac.PC.3	389.1137	169.45677	2.296241	0.0303193

Table 68: microbiome_vs_brain_neo: neo.Amygdala_LR vs unifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	899.649768	25.19105	35.7130762	0.000000
unifrac.PC.4	-3.229479	260.09999	-0.0124163	0.990192

Table 69: microbiome_vs_brain_neo: neo.Amygdala_LR vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1011.94792	81.7904188	12.372451	0.0000000
chao1	-1.14578	0.7972216	-1.437216	0.1630556

Table 70: microbiome_vs_brain_neo: neo.Amygdala_LR vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	978.235209	85.30925	11.4669297	0.0000000
observed_otus	-1.328367	1.38031	-0.9623682	0.3450814

Table 71: microbiome_vs_brain_neo: neo.Amygdala_LR vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1039.59151	118.41946	8.778891	0.0000000
PD_whole_tree	-28.90439	23.93271	-1.207736	0.2384507

Table 72: microbiome_vs_brain_neo: neo.Amygdala_LR vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	936.92538	125.75888	7.4501726	0.0000001
shannon	-13.47053	44.54161	-0.3024258	0.7648294

Table 73: microbiome_vs_brain_neo: neo.mPFC vs wunifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	26101.948	658.2269	39.654939	0.0000000
wunifrac.PC.1	-4051.702	2376.0248	-1.705244	0.1005461

Table 74: microbiome_vs_brain_neo: neo.mPFC vs wunifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	26080.9025	696.354	37.4535129	0.000000
wunifrac.PC.2	-196.0926	4999.569	-0.0392219	0.969025

Table 75: microbiome_vs_brain_neo: neo.mPFC vs wunifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	26085.8534	695.9681	37.4813948	0.0000000
wunifrac.PC.3	-604.2677	5717.3814	-0.1056896	0.9166721

Table 76: microbiome_vs_brain_neo: neo.mPFC vs wunifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	26019.355	694.4505	37.4675471	0.0000000
wunifrac.PC.4	4827.568	6884.1399	0.7012595	0.4896179

Table 77: microbiome_vs_brain_neo: neo.mPFC vs unifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	26111.789	676.7525	38.583959	0.0000000
unifrac.PC.1	-5260.308	4402.3057	-1.194899	0.2433398

Table 78: microbiome_vs_brain_neo: neo.mPFC vs unifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	26119.272	673.7127	38.76916	0.0000000
unifrac.PC.2	-6248.478	4821.9892	-1.29583	0.2068709

Table 79: microbiome_vs_brain_neo: neo.mPFC vs unifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	26106.251	665.3108	39.239178	0.0000000
unifrac.PC.3	7508.854	4926.0325	1.524321	0.1399802

Table 80: microbiome_vs_brain_neo: neo.mPFC vs unifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	26080.6363	695.6262	37.4923122	0.0000000
unifrac.PC.4	-559.9276	7182.4082	-0.0779582	0.9384819

Table 81: microbiome_vs_brain_neo: neo.mPFC vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	27565.5874	2329.68872	11.8323050	0.0000000
chao1	-15.1345	22.70777	-0.6664898	0.5112025

Table 82: microbiome_vs_brain_neo: neo.mPFC vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	27532.78494	2380.03381	11.5682327	0.0000000
observed_otus	-24.51995	38.50913	-0.6367307	0.5300879

Table 83: microbiome_vs_brain_neo: neo.mPFC vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	28171.8981	3337.2577	8.4416310	0.0000000
PD_whole_tree	-431.6115	674.4635	-0.6399331	0.5280377

Table 84: microbiome_vs_brain_neo: neo.mPFC vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	26396.5164	3478.877	7.5876543	0.0000001
shannon	-113.5505	1232.158	-0.0921558	0.9273087

Table 85: microbiome_vs_brain_neo: yr1.WM vs wunifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	298745.55	11538.39	25.891442	0.00000
wunifrac.PC.1	-68740.57	57630.29	-1.192785	0.26345

Table 86: microbiome_vs_brain_neo: yr1.WM vs wunifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	293407.0	11442.57	25.6417074	0.0000000
wunifrac.PC.2	4157.2	100467.85	0.0413784	0.9678976

Table 87: microbiome_vs_brain_neo: yr1.WM vs wunifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	291031.6	11013.6	26.424761	0.0000000
wunifrac.PC.3	134912.5	126846.6	1.063588	0.3152184

Table 88: microbiome_vs_brain_neo: yr1.WM vs wunifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	291443.81	13346.92	21.836028	0.0000000
wunifrac.PC.4	36457.49	129363.08	0.281823	0.7844522

Table 89: microbiome_vs_brain_neo: yr1.WM vs unifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	292025.90	11920.78	24.4972113	0.0000000
unifrac.PC.1	27790.85	73344.93	0.3789062	0.7135418

Table 90: microbiome_vs_brain_neo: yr1.WM vs unifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	292280.99	11038.20	26.4790491	0.0000000
unifrac.PC.2	61249.33	68504.63	0.8940904	0.3945542

Table 91: microbiome_vs_brain_neo: yr1.WM vs unifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	299820.6	9605.896	31.212139	0.0000000
unifrac.PC.3	174789.5	78020.733	2.240295	0.0518183

Table 92: microbiome_vs_brain_neo: yr1.WM vs unifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	293357.244	11455.64	25.6081087	0.0000000
unifrac.PC.4	8851.687	116665.00	0.0758727	0.9411802

Table 93: microbiome_vs_brain_neo: yr1.WM vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	237375.2305	32062.5612	7.403502	0.0000409
chao1	554.2202	302.0985	1.834567	0.0997692

Table 94: microbiome_vs_brain_neo: yr1.WM vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	245315.7642	38767.0442	6.327946	0.0001364
observed_otus	800.0024	620.7714	1.288723	0.2296337

Table 95: microbiome_vs_brain_neo: yr1.WM vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	269602.688	67949.00	3.9677211	0.0032659
PD_whole_tree	4749.646	13368.98	0.3552736	0.7305685

Table 96: microbiome_vs_brain_neo: yr1.WM vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	228935.70	63237.12	3.620274	0.0055694
shannon	23529.75	22740.45	1.034709	0.3278060

Table 97: microbiome_vs_brain_neo: yr1.GM vs wunifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	136657.876	4676.97	29.2193199	0.0000000
wunifrac.PC.1	5664.265	23359.86	0.2424786	0.8138448

Table 98: microbiome_vs_brain_neo: yr1.GM vs wunifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	137135.03	4045.055	33.901892	0.000000
wunifrac.PC.2	40277.72	35516.328	1.134062	0.286071

Table 99: microbiome_vs_brain_neo: yr1.GM vs wunifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	138492.14	3772.34	36.712525	0.0000000
wunifrac.PC.3	-79304.63	43447.08	-1.825315	0.1012458

Table 100: microbiome_vs_brain_neo: yr1.GM vs wunifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	138255.25	5011.445	27.5879025	0.0000000
wunifrac.PC.4	-21531.01	48572.685	-0.4432741	0.6680315

Table 101: microbiome_vs_brain_neo: yr1.GM vs unifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	134648.36	3666.682	36.722130	0.0000000
unifrac.PC.1	49430.87	22559.974	2.191087	0.0561507

Table 102: microbiome_vs_brain_neo: yr1.GM vs unifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	137568.96	4127.835	33.327148	0.0000000
unifrac.PC.2	-25699.98	25617.930	-1.003203	0.3419711

Table 103: microbiome_vs_brain_neo: yr1.GM vs unifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	137856.8	4450.33	30.976754	0.0000000
unifrac.PC.3	20664.1	36146.34	0.571679	0.5815339

Table 104: microbiome_vs_brain_neo: yr1.GM vs unifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	137316.13	4106.185	33.441293	0.0000000
unifrac.PC.4	-42014.32	41817.664	-1.004703	0.3412864

Table 105: microbiome_vs_brain_neo: yr1.GM vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	127642.328	13811.1002	9.2420101	0.0000069
chao1	93.535	130.1304	0.7187792	0.4905163

Table 106: microbiome_vs_brain_neo: yr1.GM vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	123610.9441	15244.62	8.108498	0.0000199
observed_otus	224.3778	244.11	0.919167	0.3819826

Table 107: microbiome_vs_brain_neo: yr1.GM vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	131808.962	25794.664	5.1099314	0.0006366
PD_whole_tree	1055.503	5075.105	0.2079766	0.8398774

Table 108: microbiome_vs_brain_neo: yr1.GM vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	97803.39	21499.800	4.549037	0.0013878
shannon	14342.03	7731.458	1.855023	0.0965759

Table 109: microbiome_vs_brain_neo: yr1.CSF vs wunifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	653172.7	12442.40	52.495720	0.000000
wunifrac.PC.1	-110836.4	62145.51	-1.783498	0.108177

Table 110: microbiome_vs_brain_neo: yr1.CSF vs wunifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	644554.205	13339.19	48.3203573	0.0000000
wunifrac.PC.2	-4920.591	117120.49	-0.0420131	0.9674056

Table 111: microbiome_vs_brain_neo: yr1.CSF vs wunifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	641360.5	12563.23	51.050623	0.0000000
wunifrac.PC.3	181942.4	144694.13	1.257428	0.2402466

Table 112: microbiome_vs_brain_neo: yr1.CSF vs wunifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	634863.1	14343.38	44.261741	0.0000000
wunifrac.PC.4	180403.4	139021.11	1.297669	0.2266727

Table 113: microbiome_vs_brain_neo: yr1.CSF vs unifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	647313.01	13679.67	47.3193588	0.0000000
unifrac.PC.1	-55576.25	84166.81	-0.6603107	0.5255918

Table 114: microbiome_vs_brain_neo: yr1.CSF vs unifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	643198.45	12821.35	50.1662154	0.0000000
unifrac.PC.2	74243.62	79571.10	0.9330476	0.3751491

Table 115: microbiome_vs_brain_neo: yr1.CSF vs unifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	651002.3	11977.03	54.354212	0.0000000
unifrac.PC.3	175502.4	97279.53	1.804104	0.1047081

Table 116: microbiome_vs_brain_neo: yr1.CSF vs unifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	644683.69	13335.46	48.3435747	0.0000000
unifrac.PC.4	-24081.65	135809.20	-0.1773197	0.8631838

Table 117: microbiome_vs_brain_neo: yr1.CSF vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	630529.3171	43535.9651	14.4829526	0.0000002
chao1	138.7767	410.2028	0.3383126	0.7428860

Table 118: microbiome_vs_brain_neo: yr1.CSF vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	653519.4380	49088.2399	13.3131569	0.0000003
observed_otus	-149.0743	786.0433	-0.1896515	0.8537905

Table 119: microbiome_vs_brain_neo: yr1.CSF vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	643269.5134	79764.17	8.0646423	0.0000208
PD_whole_tree	257.2747	15693.62	0.0163936	0.9872781

Table 120: microbiome_vs_brain_neo: yr1.CSF vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	644820.08451	77980.46	8.2689956	0.0000170
shannon	-95.39512	28042.24	-0.0034018	0.9973599

Table 121: microbiome_vs_brain_neo: yr1.ICV vs wunifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1088576.1	23794.79	45.748512	0.0000000
wunifrac.PC.1	-173912.7	118846.79	-1.463335	0.1774051

Table 122: microbiome_vs_brain_neo: yr1.ICV vs wunifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1075096.23	24353.26	44.1458893	0.0000000
wunifrac.PC.2	39514.33	213826.07	0.1847966	0.8574857

Table 123: microbiome_vs_brain_neo: yr1.ICV vs wunifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1070884.2	23947.18	44.718592	0.0000000
wunifrac.PC.3	237550.3	275806.29	0.861294	0.4114348

Table 124: microbiome_vs_brain_neo: yr1.ICV vs wunifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1064562.2	27782.11	38.3182646	0.0000000
wunifrac.PC.4	195329.8	269273.95	0.7253945	0.4866423

Table 125: microbiome_vs_brain_neo: yr1.ICV vs unifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1073987.27	25591.78	41.9660994	0.0000000
unifrac.PC.1	21645.47	157458.43	0.1374678	0.8936873

Table 126: microbiome_vs_brain_neo: yr1.ICV vs unifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1073048	23839.38	45.0115980	0.0000000
unifrac.PC.2	109793	147950.56	0.7420923	0.4769506

Table 127: microbiome_vs_brain_neo: yr1.ICV vs unifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1088680	20533.55	53.019554	0.0000000
unifrac.PC.3	370956	166777.01	2.224264	0.0531926

Table 128: microbiome_vs_brain_neo: yr1.ICV vs unifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1075357.07	24360.83	44.1428799	0.0000000
unifrac.PC.4	-57244.28	248092.31	-0.2307378	0.8226782

Table 129: microbiome_vs_brain_neo: yr1.ICV vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	995546.8753	75144.4712	13.248438	0.0000003
chao1	786.5319	708.0231	1.110885	0.2954134

Table 130: microbiome_vs_brain_neo: yr1.ICV vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1022446.1462	88095.758	11.6060769	0.0000010
observed_otus	875.3059	1410.665	0.6204915	0.5503214

Table 131: microbiome_vs_brain_neo: yr1.ICV vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1044681.163	145526.79	7.1786176	0.0000520
PD_whole_tree	6062.423	28632.42	0.2117328	0.8370326

Table 132: microbiome_vs_brain_neo: yr1.ICV vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	971559.17	138259.00	7.0270955	0.0000614
shannon	37776.38	49718.77	0.7598012	0.4668087

Table 133: microbiome_vs_brain_neo: yr1.Hippocampus_LR vs wunifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	2443.3689	82.42592	29.6432096	0.0000000
wunifrac.PC.1	-272.0345	411.68916	-0.6607766	0.5253065

Table 134: microbiome_vs_brain_neo: yr1.Hippocampus_LR vs wunifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	2422.16035	77.7371	31.1583587	0.0000000
wunifrac.PC.2	-72.57116	682.5459	-0.1063242	0.9176573

Table 135: microbiome_vs_brain_neo: yr1.Hippocampus_LR vs wunifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	2403.084	72.90704	32.960930	0.0000000
wunifrac.PC.3	1089.016	839.69047	1.296925	0.2269175

Table 136: microbiome_vs_brain_neo: yr1.Hippocampus_LR vs wunifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	2410.2595	90.80003	26.544698	0.0000000
wunifrac.PC.4	222.6751	880.06582	0.253021	0.8059366

Table 137: microbiome_vs_brain_neo: yr1.Hippocampus_LR vs unifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	2446.1957	77.35556	31.622751	0.0000000
unifrac.PC.1	-483.6451	475.94520	-1.016178	0.3360825

Table 138: microbiome_vs_brain_neo: yr1.Hippocampus_LR vs unifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	2408.7843	67.65048	35.606313	0.0000000
unifrac.PC.2	733.6975	419.84853	1.747529	0.1144879

Table 139: microbiome_vs_brain_neo: yr1.Hippocampus_LR vs unifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	2421.59961	81.48806	29.7172340	0.0000000
unifrac.PC.3	-17.08575	661.85995	-0.0258148	0.9799684

Table 140: microbiome_vs_brain_neo: yr1.Hippocampus_LR vs unifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	2425.9193	74.32968	32.6372910	0.0000000
unifrac.PC.4	-711.4804	756.97843	-0.9398952	0.3718107

Table 141: microbiome_vs_brain_neo: yr1.Hippocampus_LR vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	2518.7251592	253.217187	9.9468965	0.0000037
chao1	-0.9545463	2.385852	-0.4000861	0.6984229

Table 142: microbiome_vs_brain_neo: yr1.Hippocampus_LR vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	2602.103000	279.94867	9.2949290	0.0000066
observed_otus	-2.992494	4.48278	-0.6675532	0.5211665

Table 143: microbiome_vs_brain_neo: yr1.Hippocampus_LR vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	2727.47030	453.5025	6.0142341	0.0001990
PD_whole_tree	-60.91461	89.2267	-0.6826949	0.5119874

Table 144: microbiome_vs_brain_neo: yr1.Hippocampus_LR vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	2556.1862	452.4253	5.6499625	0.0003136
shannon	-48.8933	162.6949	-0.3005214	0.7706057

Table 145: microbiome_vs_brain_neo: yr1.Amygdala_LR vs wunifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1958.6332	42.15094	46.467128	0.000000
wunifrac.PC.1	267.1166	210.52947	1.268785	0.236349

Table 146: microbiome_vs_brain_neo: yr1.Amygdala_LR vs wunifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1980.0443	32.43506	61.04642	0.0000000
wunifrac.PC.2	710.2101	284.78579	2.49384	0.0342058

Table 147: microbiome_vs_brain_neo: yr1.Amygdala_LR vs wunifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1987.8723	40.74338	48.790063	0.0000000
wunifrac.PC.3	-482.3751	469.25280	-1.027964	0.3308003

Table 148: microbiome_vs_brain_neo: yr1.Amygdala_LR vs wunifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1985.850	49.23685	40.3325914	0.000000
wunifrac.PC.4	-120.144	477.22089	-0.2517576	0.806883

Table 149: microbiome_vs_brain_neo: yr1.Amygdala_LR vs unifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1990.3775	42.62691	46.6929860	0.0000000
unifrac.PC.1	-221.6482	262.27035	-0.8451135	0.4199461

Table 150: microbiome_vs_brain_neo: yr1.Amygdala_LR vs unifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1977.59716	42.12469	46.946272	0.0000000
unifrac.PC.2	98.01183	261.43182	0.374904	0.7164139

Table 151: microbiome_vs_brain_neo: yr1.Amygdala_LR vs unifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1984.3162	43.84342	45.259152	0.0000000
unifrac.PC.3	134.0952	356.10380	0.376562	0.7152234

Table 152: microbiome_vs_brain_neo: yr1.Amygdala_LR vs unifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1981.4312	40.23218	49.2499102	0.0000000
unifrac.PC.4	-392.7537	409.72722	-0.9585736	0.3628147

Table 153: microbiome_vs_brain_neo: yr1.Amygdala_LR vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1918.0540167	136.846003	14.0161494	0.0000002
chao1	0.6067552	1.289385	0.4705773	0.6491382

Table 154: microbiome_vs_brain_neo: yr1.Amygdala_LR vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1901.08157	153.128087	12.4149763	0.0000006
observed_otus	1.30282	2.452019	0.5313254	0.6080549

Table 155: microbiome_vs_brain_neo: yr1.Amygdala_LR vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1954.396322	252.05097	7.7539726	0.0000284
PD_whole_tree	4.988339	49.59108	0.1005894	0.9220815

Table 156: microbiome_vs_brain_neo: yr1.Amygdala_LR vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	2232.835	231.15900	9.659305	0.0000048
shannon	-92.503	83.12617	-1.112802	0.2946314

Table 157: microbiome_vs_brain_neo: yr1.mPFC vs wunifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	79458.630	2037.398	39.0000499	0.0000000
wunifrac.PC.1	-5603.475	10176.104	-0.5506503	0.5952751

Table 158: microbiome_vs_brain_neo: yr1.mPFC vs wunifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	79027.968	1898.576	41.6248701	0.0000000
wunifrac.PC.2	5264.634	16669.843	0.3158179	0.7593417

Table 159: microbiome_vs_brain_neo: yr1.mPFC vs wunifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	78694.06	1872.564	42.0247676	0.0000000
wunifrac.PC.3	18720.66	21566.835	0.8680299	0.4079272

Table 160: microbiome_vs_brain_neo: yr1.mPFC vs wunifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	78456.33	2206.77	35.552561	0.0000000
wunifrac.PC.4	10546.51	21388.79	0.493086	0.6337588

Table 161: microbiome_vs_brain_neo: yr1.mPFC vs unifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	79559.39	1916.824	41.5058455	0.0000000
unifrac.PC.1	-10820.48	11793.632	-0.9174851	0.3828167

Table 162: microbiome_vs_brain_neo: yr1.mPFC vs unifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	78872.677	1870.156	42.1743948	0.0000000
unifrac.PC.2	8212.279	11606.451	0.7075616	0.4971297

Table 163: microbiome_vs_brain_neo: yr1.mPFC vs unifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	79512.61	1923.71	41.3329555	0.0000000
unifrac.PC.3	13331.55	15624.70	0.8532359	0.4156585

Table 164: microbiome_vs_brain_neo: yr1.mPFC vs unifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	78956.35	1864.683	42.3430388	0.0000000
unifrac.PC.4	12870.65	18990.058	0.6777573	0.5149697

Table 165: microbiome_vs_brain_neo: yr1.mPFC vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	75000.86107	6109.57223	12.2759595	0.0000006
chao1	39.78778	57.56536	0.6911758	0.5068897

Table 166: microbiome_vs_brain_neo: yr1.mPFC vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	76592.12051	6988.1755	10.9602457	0.0000017
observed_otus	40.44345	111.9007	0.3614227	0.7261227

Table 167: microbiome_vs_brain_neo: yr1.mPFC vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	71328.951	11114.304	6.4177616	0.0001227
PD_whole_tree	1535.458	2186.741	0.7021674	0.5003297

Table 168: microbiome_vs_brain_neo: yr1.mPFC vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	87944.281	10743.347	8.1859294	0.0000184
shannon	-3256.094	3863.372	-0.8428114	0.4211669
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2				

Microbiome yr1 vs brain volume

Table 169: microbiome_vs_brain_yr1: yr1.WM vs wunifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	299858.153	10678.62	28.0802434	0.0000000
wunifrac.PC.1	4383.518	25957.00	0.1688761	0.8689594

Table 170: microbiome_vs_brain_yr1: yr1.WM vs wunifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	299206.05	10500.96	28.493218	0.000000
wunifrac.PC.2	42026.06	65073.75	0.645822	0.531636

Table 171: microbiome_vs_brain_yr1: yr1.WM vs wunifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	296751.0	9439.55	31.436987	0.0000000
wunifrac.PC.3	189312.1	101763.99	1.860305	0.0897681

Table 172: microbiome_vs_brain_yr1: yr1.WM vs wunifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	299819.9	9900.296	30.283930	0.0000000
wunifrac.PC.4	141833.6	106669.962	1.329649	0.2105488

Table 173: microbiome_vs_brain_yr1: yr1.WM vs unifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	299720.834	10663.88	28.1061725	0.000000
unifrac.PC.1	-5351.421	67947.01	-0.0787587	0.938639

Table 174: microbiome_vs_brain_yr1: yr1.WM vs unifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	303808.7	9945.116	30.548530	0.0000000
unifrac.PC.2	116967.9	73296.471	1.595819	0.1388356

Table 175: microbiome_vs_brain_yr1: yr1.WM vs unifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	302377.71	11124.95	27.1801480	0.0000000
unifrac.PC.3	61356.71	88949.35	0.6897938	0.5046162

Table 176: microbiome_vs_brain_yr1: yr1.WM vs unifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	298167.09	10446.09	28.5434148	0.0000000
unifrac.PC.4	90429.19	101153.89	0.8939764	0.3904751

Table 177: microbiome_vs_brain_yr1: yr1.WM vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	345769.6784	29397.893	11.76172	0.0000001
chao1	-179.1202	108.184	-1.65570	0.1260020

Table 178: microbiome_vs_brain_yr1: yr1.WM vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	351167.209	30752.5109	11.419139	0.0000002
observed_otus	-335.372	190.8637	-1.757129	0.1066557

Table 179: microbiome_vs_brain_yr1: yr1.WM vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	351094.494	50478.103	6.955382	0.0000241
PD_whole_tree	-5109.185	4918.023	-1.038870	0.3211623

Table 180: microbiome_vs_brain_yr1: yr1.WM vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	383200.64	51156.00	7.490825	0.0000121
shannon	-19417.52	11691.83	-1.660777	0.1249639

Table 181: microbiome_vs_brain_yr1: yr1.CSF vs wunifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	137584.89	3418.467	40.247536	0.0000000
wunifrac.PC.1	-11978.14	8309.425	-1.441513	0.1772968

Table 182: microbiome_vs_brain_yr1: yr1.CSF vs wunifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	137345.18	2951.129	46.539879	0.0000000
wunifrac.PC.2	46864.24	18287.954	2.562574	0.0263973

Table 183: microbiome_vs_brain_yr1: yr1.CSF vs wunifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	138425.3	3669.364	37.7245912	0.0000000
wunifrac.PC.3	-31389.6	39557.941	-0.7935096	0.4442611

Table 184: microbiome_vs_brain_yr1: yr1.CSF vs wunifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	137950.61	3613.39	38.1776135	0.0000000
wunifrac.PC.4	31335.03	38932.19	0.8048619	0.4379501

Table 185: microbiome_vs_brain_yr1: yr1.CSF vs unifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	137938.019	3714.799	37.1320248	0.0000000
unifrac.PC.1	3495.589	23669.576	0.1476828	0.8852653

Table 186: microbiome_vs_brain_yr1: yr1.CSF vs unifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	138136.141	3839.775	35.9750656	0.000000
unifrac.PC.2	5882.918	28299.511	0.2078805	0.839121

Table 187: microbiome_vs_brain_yr1: yr1.CSF vs unifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	138496.03	3930.228	35.2386736	0.0000000
unifrac.PC.3	13099.22	31424.081	0.4168529	0.6848048

Table 188: microbiome_vs_brain_yr1: yr1.CSF vs unifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	138510.26	3624.545	38.2145210	0.00000
unifrac.PC.4	-33479.72	35097.994	-0.9538928	0.36063

Table 189: microbiome_vs_brain_yr1: yr1.CSF vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	151236.83337	10639.85995	14.214175	0.0000000
chao1	-51.76852	39.15459	-1.322157	0.2129493

Table 190: microbiome_vs_brain_yr1: yr1.CSF vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	152692.62471	11194.64944	13.639786	0.0000000
observed_otus	-96.24843	69.47894	-1.385289	0.1934115

Table 191: microbiome_vs_brain_yr1: yr1.CSF vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	147986.490	18178.065	8.1409375	0.0000055
PD_whole_tree	-1000.232	1771.068	-0.5647623	0.5835689

Table 192: microbiome_vs_brain_yr1: yr1.CSF vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	143723.036	19864.461	7.2351844	0.0000168
shannon	-1347.389	4540.072	-0.2967771	0.7721654

Table 193: microbiome_vs_brain_yr1: yr1.GM vs wunifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	655448.20	13692.67	47.8685324	0.0000000
wunifrac.PC.1	-22029.34	33283.41	-0.6618715	0.5216776

Table 194: microbiome_vs_brain_yr1: yr1.GM vs wunifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	654752.0	12971.38	50.476675	0.0000000
wunifrac.PC.2	106615.3	80382.78	1.326345	0.2116047

Table 195: microbiome_vs_brain_yr1: yr1.GM vs wunifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	650236.1	9580.814	67.868562	0.0000000
wunifrac.PC.3	371503.2	103286.903	3.596809	0.0041933

Table 196: microbiome_vs_brain_yr1: yr1.GM vs wunifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	656131.06	13773.28	47.6379831	0.000000
wunifrac.PC.4	74096.63	148399.08	0.4993065	0.627399

Table 197: microbiome_vs_brain_yr1: yr1.GM vs unifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	656150.9	13840.22	47.4089760	0.0000000
unifrac.PC.1	33233.2	88185.72	0.3768546	0.7134503

Table 198: microbiome_vs_brain_yr1: yr1.GM vs unifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	660574.7	13414.02	49.245091	0.0000000
unifrac.PC.2	128803.4	98862.63	1.302852	0.2192393

Table 199: microbiome_vs_brain_yr1: yr1.GM vs unifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	661187.6	14151.65	46.721590	0.0000000
unifrac.PC.3	118314.0	113149.31	1.045645	0.3181588

Table 200: microbiome_vs_brain_yr1: yr1.GM vs unifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	652217.6	12294.11	53.051215	0.0000000
unifrac.PC.4	223547.9	119049.07	1.877779	0.0871628

Table 201: microbiome_vs_brain_yr1: yr1.GM vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	685681.8987	41856.5893	16.38170	0.0000000
chao1	-115.1527	154.0319	-0.74759	0.4703877

Table 202: microbiome_vs_brain_yr1: yr1.GM vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	689476.6204	44197.6772	15.5998384	0.0000000
observed_otus	-217.7212	274.3103	-0.7937041	0.4441524

Table 203: microbiome_vs_brain_yr1: yr1.GM vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	736834.455	64446.819	11.43322	0.0000002
PD_whole_tree	-8032.323	6278.979	-1.27924	0.2271383

Table 204: microbiome_vs_brain_yr1: yr1.GM vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	734560.93	70720.46	10.386823	0.0000005
shannon	-18255.96	16163.34	-1.129468	0.2827292

Table 205: microbiome_vs_brain_yr1: yr1.ICV vs wunifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1092891.24	24026.64	45.4866509	0.0000000
wunifrac.PC.1	-29623.97	58402.65	-0.5072367	0.6220033

Table 206: microbiome_vs_brain_yr1: yr1.ICV vs wunifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1091303.2	22381.51	48.75915	0.0000000
wunifrac.PC.2	195505.6	138696.74	1.40959	0.1863013

Table 207: microbiome_vs_brain_yr1: yr1.ICV vs wunifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1085412.3	19648.33	55.241954	0.0000000
wunifrac.PC.3	529425.7	211820.78	2.499404	0.0295377

Table 208: microbiome_vs_brain_yr1: yr1.ICV vs wunifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1093901.5	23238.19	47.0734402	0.0000000
wunifrac.PC.4	247265.2	250378.06	0.9875675	0.3445897

Table 209: microbiome_vs_brain_yr1: yr1.ICV vs unifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1093809.74	24202.39	45.1942921	0.0000000
unifrac.PC.1	31377.36	154210.28	0.2034713	0.8424818

Table 210: microbiome_vs_brain_yr1: yr1.ICV vs unifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1102519.5	22878.27	48.190677	0.0000000
unifrac.PC.2	251654.2	168615.09	1.492477	0.1636888

Table 211: microbiome_vs_brain_yr1: yr1.ICV vs unifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1102061	24786.31	44.4625074	0.0000000
unifrac.PC.3	192770	198178.55	0.9727085	0.3516026

Table 212: microbiome_vs_brain_yr1: yr1.ICV vs unifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1088895.0	22990.42	47.362979	0.0000000
unifrac.PC.4	280497.4	222625.94	1.259949	0.2337624

Table 213: microbiome_vs_brain_yr1: yr1.ICV vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1182688.4105	69101.1462	17.115323	0.0000000
chao1	-346.0415	254.2916	-1.360806	0.2008035

Table 214: microbiome_vs_brain_yr1: yr1.ICV vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1193336.4537	72549.7393	16.448528	0.0000000
observed_otus	-649.3417	450.2757	-1.442098	0.1771354

Table 215: microbiome_vs_brain_yr1: yr1.ICV vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1235915.44	111996.81	11.035274	0.0000003
PD_whole_tree	-14141.74	10911.72	-1.296014	0.2215034

Table 216: microbiome_vs_brain_yr1: yr1.ICV vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1261484.61	119430.40	10.562508	0.0000004
shannon	-39020.87	27296.11	-1.429539	0.1806300

Table 217: microbiome_vs_brain_yr1: yr1.Hippocampus_LR vs wunifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	2460.6001	70.92448	34.6932428	0.0000000
wunifrac.PC.1	-127.9001	172.39938	-0.7418826	0.4737016

Table 218: microbiome_vs_brain_yr1: yr1.Hippocampus_LR vs wunifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	2466.776	72.0729	34.2261284	0.0000000
wunifrac.PC.2	-198.353	446.6311	-0.4441093	0.6655736

Table 219: microbiome_vs_brain_yr1: yr1.Hippocampus_LR vs wunifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	2443.331	63.44064	38.513663	0.0000000
wunifrac.PC.3	1331.653	683.92806	1.947066	0.0775038

Table 220: microbiome_vs_brain_yr1: yr1.Hippocampus_LR vs wunifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	2464.0358	71.54737	34.4392251	0.0000000

	Estimate	Std. Error	t value	Pr(>|t|)
wunifrac.PC.4	-418.4411	770.88151	-0.5428086	0.5980877

Table 221: microbiome_vs_brain_yr1: yr1.Hippocampus_LR vs unifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	2464.34545	72.49408	33.993747	0.0000000
unifrac.PC.1	24.59301	461.91033	0.053242	0.9584938

Table 222: microbiome_vs_brain_yr1: yr1.Hippocampus_LR vs unifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	2458.7152	74.7288	32.9018411	0.0000000
unifrac.PC.2	-160.1195	550.7585	-0.2907254	0.7766695

Table 223: microbiome_vs_brain_yr1: yr1.Hippocampus_LR vs unifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	2467.98898	77.16751	31.9822271	0.0000000
unifrac.PC.3	85.61216	616.99170	0.1387574	0.8921496

Table 224: microbiome_vs_brain_yr1: yr1.Hippocampus_LR vs unifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	2448.9804	68.17403	35.922485	0.0000000
unifrac.PC.4	885.3593	660.15775	1.341133	0.2069122

Table 225: microbiome_vs_brain_yr1: yr1.Hippocampus_LR vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	2508.8766004	222.8816603	11.2565412	0.0000002
chao1	-0.1734467	0.8202025	-0.2114682	0.8363889

Table 226: microbiome_vs_brain_yr1: yr1.Hippocampus_LR vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	2490.230133	236.406848	10.5336633	0.0000004
observed_otus	-0.169092	1.467245	-0.1152446	0.9103281

Table 227: microbiome_vs_brain_yr1: yr1.Hippocampus_LR vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	2838.22376	340.61626	8.332614	0.0000044
PD_whole_tree	-37.19529	33.18585	-1.120818	0.2862387

Table 228: microbiome_vs_brain_yr1: yr1.Hippocampus_LR vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	2656.13595	384.38489	6.9100947	0.0000255
shannon	-44.62778	87.85212	-0.5079876	0.6214936

Table 229: microbiome_vs_brain_yr1: yr1.Amygdala_LR vs wunifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1987.2907	29.63193	67.065850	0.0000000
wunifrac.PC.1	-210.4919	72.02770	-2.922374	0.0138784

Table 230: microbiome_vs_brain_yr1: yr1.Amygdala_LR vs wunifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1993.1131	39.50191	50.4561224	0.0000000
wunifrac.PC.2	20.8921	244.79076	0.0853467	0.9335193

Table 231: microbiome_vs_brain_yr1: yr1.Amygdala_LR vs wunifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1990.685	39.68972	50.1561911	0.0000000
wunifrac.PC.3	170.822	427.87887	0.3992297	0.6973656

Table 232: microbiome_vs_brain_yr1: yr1.Amygdala_LR vs wunifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1993.0298	36.23407	55.004310	0.0000000
wunifrac.PC.4	-552.7045	390.40113	-1.415735	0.1845386

Table 233: microbiome_vs_brain_yr1: yr1.Amygdala_LR vs unifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1993.30481	39.36455	50.6370470	0.0000000
unifrac.PC.1	-34.99515	250.81902	-0.1395235	0.8915583

Table 234: microbiome_vs_brain_yr1: yr1.Amygdala_LR vs unifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1987.6665	40.2102	49.4319007	0.0000000
unifrac.PC.2	-163.7474	296.3531	-0.5525417	0.5916277

Table 235: microbiome_vs_brain_yr1: yr1.Amygdala_LR vs unifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	2010.4585	39.22237	51.257955	0.0000000
unifrac.PC.3	396.1191	313.60187	1.263127	0.2326603

Table 236: microbiome_vs_brain_yr1: yr1.Amygdala_LR vs unifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1999.2036	38.55892	51.8480187	0.0000000
unifrac.PC.4	-336.9656	373.38223	-0.9024683	0.3861435

Table 237: microbiome_vs_brain_yr1: yr1.Amygdala_LR vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1899.0974429	117.5830787	16.1511117	0.000000
chao1	0.3668017	0.4327047	0.8476952	0.414672

Table 238: microbiome_vs_brain_yr1: yr1.Amygdala_LR vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1885.6127282	123.929468	15.2152087	0.0000000
observed_otus	0.7026284	0.769161	0.9134998	0.3805666

Table 239: microbiome_vs_brain_yr1: yr1.Amygdala_LR vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1823.86950	188.28261	9.6868718	0.0000010
PD_whole_tree	16.86099	18.34416	0.9191475	0.3777333

Table 240: microbiome_vs_brain_yr1: yr1.Amygdala_LR vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1902.42808	209.46466	9.0823344	0.0000019
shannon	21.15691	47.87367	0.4419322	0.6671007

Table 241: microbiome_vs_brain_yr1: yr1.mPFC vs wunifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	80613.050	1926.314	41.84834	0.0000000
wunifrac.PC.1	-6951.272	4682.380	-1.48456	0.1657423

Table 242: microbiome_vs_brain_yr1: yr1.mPFC vs wunifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	80678.35	2044.602	39.4592001	0.0000000
wunifrac.PC.2	10846.97	12670.264	0.8560966	0.4102056

Table 243: microbiome_vs_brain_yr1: yr1.mPFC vs wunifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	80009.87	1588.475	50.368983	0.0000000
wunifrac.PC.3	51073.31	17124.711	2.982433	0.0124652

Table 244: microbiome_vs_brain_yr1: yr1.mPFC vs wunifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	80815.411	2104.302	38.4048603	0.0000000
wunifrac.PC.4	2336.652	22672.634	0.1030605	0.9197699

Table 245: microbiome_vs_brain_yr1: yr1.mPFC vs unifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	80836.84	2033.587	39.7508656	0.0000000
unifrac.PC.1	11524.40	12957.400	0.8894071	0.3928197

Table 246: microbiome_vs_brain_yr1: yr1.mPFC vs unifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	81047.189	2161.116	37.5024696	0.0000000
unifrac.PC.2	6691.063	15927.635	0.4200915	0.6825072

Table 247: microbiome_vs_brain_yr1: yr1.mPFC vs unifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	81766.46	2082.48	39.263985	0.0000000
unifrac.PC.3	22085.06	16650.44	1.326395	0.2115886

Table 248: microbiome_vs_brain_yr1: yr1.mPFC vs unifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	80454.61	2035.141	39.53270	0.0000000
unifrac.PC.4	20772.30	19707.124	1.05405	0.3144622

Table 249: microbiome_vs_brain_yr1: yr1.mPFC vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	84149.51917	6397.68145	13.1531274	0.0000000
chao1	-12.97763	23.54341	-0.5512215	0.5925018

Table 250: microbiome_vs_brain_yr1: yr1.mPFC vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	83738.62615	6806.4439	12.3028453	0.0000001
observed_otus	-19.06948	42.2438	-0.4514149	0.6604606

Table 251: microbiome_vs_brain_yr1: yr1.mPFC vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	87588.4211	10230.3593	8.5616173	0.0000034
PD_whole_tree	-673.8699	996.7321	-0.6760793	0.5129541

Table 252: microbiome_vs_brain_yr1: yr1.mPFC vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	91690.846	10787.747	8.499536	0.0000037
shannon	-2530.302	2465.566	-1.026256	0.3268098
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Microbiome alpha diversity difference (yr1 vs neo) vs brain volume

Table 253: div_diff_vs_brain_yr1: WM vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	320844.9049	16345.8479	19.628526	0.0000000
chao1	-157.9383	84.6435	-1.865923	0.0916196

Table 254: div_diff_vs_brain_yr1: WM vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	322789.9987	17117.8835	18.856887	0.0000000
observed_otus	-286.1776	152.2325	-1.879873	0.0895425

Table 255: div_diff_vs_brain_yr1: WM vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	324787.893	26451.021	12.278841	0.0000002
PD_whole_tree	-5696.365	4781.137	-1.191425	0.2609963

Table 256: div_diff_vs_brain_yr1: WM vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	321784.2	16224.863	19.83279	0.0000000
shannon	-16724.6	8592.714	-1.94637	0.0802297

Table 257: div_diff_vs_brain_yr1: CSF vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	145183.08426	6701.11783	21.665502	0.0000000
chao1	-44.53157	34.70032	-1.283319	0.2283219

Table 258: div_diff_vs_brain_yr1: CSF vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	146024.05794	6979.07394	20.923128	0.0000000
observed_otus	-83.76771	62.06618	-1.349652	0.2068871

Table 259: div_diff_vs_brain_yr1: CSF vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	143390.667	10615.949	13.5070986	0.0000001
PD_whole_tree	-1039.464	1918.879	-0.5417039	0.5998833

Table 260: div_diff_vs_brain_yr1: CSF vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	143561.742	6950.246	20.6556350	0.0000000
shannon	-3511.128	3680.862	-0.9538876	0.3626293

Table 261: div_diff_vs_brain_yr1: GM vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	664244.96817	25573.3736	25.97408	0.0000000
chao1	-74.87118	132.4263	-0.56538	0.5842765

Table 262: div_diff_vs_brain_yr1: GM vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	663031.2583	26959.7997	24.5933302	0.0000000
observed_otus	-113.1894	239.7584	-0.4720977	0.6469902

Table 263: div_diff_vs_brain_yr1: GM vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	688343.751	36679.360	18.766515	0.0000000
PD_whole_tree	-7037.799	6629.954	-1.061516	0.3134194

Table 264: div_diff_vs_brain_yr1: GM vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	670057.36	25181.35	26.609270	0.0000000
shannon	-11355.64	13336.08	-0.851497	0.4144189

Table 265: div_diff_vs_brain_yr1: ICV vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1130272.957	41081.529	27.512923	0.0000000
chao1	-277.341	212.732	-1.303711	0.2215451

Table 266: div_diff_vs_brain_yr1: ICV vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1131845.3149	43344.2606	26.11292	0.0000000
observed_otus	-483.1348	385.4684	-1.25337	0.2385826

Table 267: div_diff_vs_brain_yr1: ICV vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1156522.31	61636.00	18.763747	0.0000000
PD_whole_tree	-13773.63	11140.98	-1.236304	0.2445963

Table 268: div_diff_vs_brain_yr1: ICV vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1135403.32	40420.92	28.08950	0.00000
shannon	-31591.37	21406.98	-1.47575	0.17079

Table 269: div_diff_vs_brain_yr1: Hippocampus_LR vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	2452.565043	139.7000844	17.5559310	0.0000000
chao1	0.012288	0.7234072	0.0169863	0.9867816

Table 270: div_diff_vs_brain_yr1: Hippocampus_LR vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	2432.9946060	146.362019	16.6231282	0.0000000
observed_otus	0.2266053	1.301624	0.1740943	0.8652653

Table 271: div_diff_vs_brain_yr1: Hippocampus_LR vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	2577.01047	203.81629	12.6437903	0.0000002
PD_whole_tree	-23.89834	36.84068	-0.6486942	0.5311499

Table 272: div_diff_vs_brain_yr1: Hippocampus_LR vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	2482.91581	139.81816	17.7581781	0.0000000
shannon	-18.12659	74.04793	-0.2447953	0.8115649

Table 273: div_diff_vs_brain_yr1: Amygdala_LR vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1963.2596894	75.0932983	26.1442730	0.0000000
chao1	0.2140581	0.3888547	0.5504834	0.5940706

Table 274: div_diff_vs_brain_yr1: Amygdala_LR vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1952.7972909	78.2099252	24.9686633	0.0000000
observed_otus	0.4702162	0.6955352	0.6760495	0.5143398

Table 275: div_diff_vs_brain_yr1: Amygdala_LR vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1890.78414	107.51767	17.585799	0.0000000
PD_whole_tree	20.81907	19.43429	1.071255	0.3092279

Table 276: div_diff_vs_brain_yr1: Amygdala_LR vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1948.10210	74.16123	26.2684692	0.0000000
shannon	31.53356	39.27591	0.8028729	0.4407129

Table 277: div_diff_vs_brain_yr1: mPFC vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	81984.46536	3955.70653	20.7256187	0.0000000
chao1	-10.01818	20.48379	-0.4890785	0.6353352

Table 278: div_diff_vs_brain_yr1: mPFC vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	81453.39800	4180.75754	19.4829279	0.0000000
observed_otus	-11.26604	37.18024	-0.3030114	0.7680909

Table 279: div_diff_vs_brain_yr1: mPFC vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	83857.0938	5842.169	14.3537603	0.0000001
PD_whole_tree	-677.9108	1055.998	-0.6419625	0.5353356

Table 280: div_diff_vs_brain_yr1: mPFC vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	81887.8682	3976.852	20.5911286	0.0000000
shannon	-961.1266	2106.147	-0.4563435	0.6578937
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Microbiome alpha diversity at neo to predict change of brain volume from neo to yr1

Table 281: neo_div_vs_diff_brain: diff.WM vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	73981.8372	23484.5896	3.150229	0.0117332
chao1	519.5091	221.2755	2.347793	0.0434619

Table 282: neo_div_vs_diff_brain: diff.WM vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	78368.9439	29034.971	2.699123	0.0244288
observed_otus	800.7406	464.933	1.722271	0.1191207

Table 283: neo_div_vs_diff_brain: diff.WM vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	111321.565	54050.60	2.0595805	0.0695274
PD_whole_tree	3029.167	10634.47	0.2848443	0.7822093

Table 284: neo_div_vs_diff_brain: diff.WM vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	49680.67	46280.55	1.073468	0.3109987
shannon	28038.27	16642.76	1.684712	0.1263282

Table 285: neo_div_vs_diff_brain: diff.WM vs wunifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	129397.22	9533.62	13.5727263	0.0000003
wunifrac.PC.1	-37269.24	47617.16	-0.7826852	0.4539125

Table 286: neo_div_vs_diff_brain: diff.WM vs wunifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	126496.118	9078.432	13.9336971	0.0000002
wunifrac.PC.2	-5030.987	79710.294	-0.0631159	0.9510538

Table 287: neo_div_vs_diff_brain: diff.WM vs wunifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	124741.2	8807.984	14.1622907	0.0000002
wunifrac.PC.3	100095.1	101443.977	0.9867028	0.3495706

Table 288: neo_div_vs_diff_brain: diff.WM vs wunifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	128811.04	10534.06	12.2280541	0.0000007
wunifrac.PC.4	-42987.31	102099.80	-0.4210323	0.6836078

Table 289: neo_div_vs_diff_brain: diff.WM vs unifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	124144.50	9179.646	13.5238877	0.0000003
unifrac.PC.1	47544.33	56479.561	0.8417971	0.4217055

Table 290: neo_div_vs_diff_brain: diff.WM vs unifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	125436.78	8590.75	14.601377	0.0000001
unifrac.PC.2	58070.53	53315.42	1.089188	0.3043744

Table 291: neo_div_vs_diff_brain: diff.WM vs unifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	130831	8189.466	15.975524	0.0000001
unifrac.PC.3	117943	66516.243	1.773146	0.1099593

Table 292: neo_div_vs_diff_brain: diff.WM vs unifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	126554.45	9086.541	13.9276824	0.0000002
unifrac.PC.4	-10351.24	92537.943	-0.1118595	0.9133899

Table 293: neo_div_vs_diff_brain: diff.GM vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	-135379.76334	52989.7339	-2.5548300	0.0309485
chao1	11.51897	499.2777	0.0230713	0.9820969

Table 294: neo_div_vs_diff_brain: diff.GM vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	-137692.6016	59479.4362	-2.3149614	0.0458625
observed_otus	57.8503	952.4361	0.0607393	0.9528942

Table 295: neo_div_vs_diff_brain: diff.GM vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	-137554.0776	96471.03	-1.4258589	0.1876582
PD_whole_tree	666.2946	18980.69	0.0351038	0.9727632

Table 296: neo_div_vs_diff_brain: diff.GM vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	-144928.389	94249.16	-1.5377155	0.1584978
shannon	3910.141	33892.57	0.1153687	0.9106859

Table 297: neo_div_vs_diff_brain: diff.GM vs wunifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	-142648.6	15939.94	-8.949133	0.0000089
wunifrac.PC.1	108512.4	79614.51	1.362973	0.2060143

Table 298: neo_div_vs_diff_brain: diff.GM vs wunifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	-134272.21	15962.54	-8.4117051	0.0000148
wunifrac.PC.2	-62074.81	140154.05	-0.4429041	0.6682892

Table 299: neo_div_vs_diff_brain: diff.GM vs wunifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	-131729.7	15959.9	-8.2537890	0.0000172
wunifrac.PC.3	-141400.8	183814.6	-0.7692575	0.4614509

Table 300: neo_div_vs_diff_brain: diff.GM vs wunifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	-126338.7	18217.63	-6.9349688	0.0000680
wunifrac.PC.4	-146557.4	176571.67	-0.8300164	0.4279964

Table 301: neo_div_vs_diff_brain: diff.GM vs unifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	-135913.09	16839.87	-8.0709100	0.0000206
unifrac.PC.1	34258.76	103610.60	0.3306491	0.7484771

Table 302: neo_div_vs_diff_brain: diff.GM vs unifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	-135182.90	15990.73	-8.4538295	0.0000142
unifrac.PC.2	52812.96	99240.74	0.5321702	0.6074933

Table 303: neo_div_vs_diff_brain: diff.GM vs unifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	-138454.3	16226.44	-8.5326369	0.0000132
unifrac.PC.3	-115459.2	131793.95	-0.8760585	0.4037738

Table 304: neo_div_vs_diff_brain: diff.GM vs unifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	-133730.96	15866.28	-8.4286281	0.0000146
unifrac.PC.4	-93322.12	161583.25	-0.5775482	0.5777298

Table 305: neo_div_vs_diff_brain: diff.CSF vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	554785.0316	44923.3481	12.3495922	0.0000006
chao1	252.3016	423.2749	0.5960703	0.5658159

Table 306: neo_div_vs_diff_brain: diff.CSF vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	586308.7850	51377.6201	11.4117545	0.0000012
observed_otus	-100.1138	822.7028	-0.1216889	0.9058191

Table 307: neo_div_vs_diff_brain: diff.CSF vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	579019.3864	83386.55	6.9437983	0.0000673
PD_whole_tree	253.7715	16406.32	0.0154679	0.9879964

Table 308: neo_div_vs_diff_brain: diff.CSF vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	599347.101	81266.42	7.3750889	0.0000421
shannon	-6955.202	29223.90	-0.2379971	0.8172133

Table 309: neo_div_vs_diff_brain: diff.CSF vs wunifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	589540.5	12880.42	45.770296	0.0000000
wunifrac.PC.1	-119012.7	64333.25	-1.849941	0.0973601

Table 310: neo_div_vs_diff_brain: diff.CSF vs wunifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	580269.28	13917.2	41.694401	0.000000
wunifrac.PC.2	-23723.29	122195.6	-0.194142	0.850376

Table 311: neo_div_vs_diff_brain: diff.CSF vs wunifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	575769.1	12139.52	47.429312	0.0000000
wunifrac.PC.3	257246.1	139814.20	1.839914	0.0989251

Table 312: neo_div_vs_diff_brain: diff.CSF vs wunifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	575184.58	16007.3	35.9326373	0.0000000
wunifrac.PC.4	95014.47	155148.4	0.6124103	0.5554215

Table 313: neo_div_vs_diff_brain: diff.CSF vs unifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	582532.78	14436.67	40.350901	0.0000000
unifrac.PC.1	-45234.12	88824.45	-0.509253	0.6228254

Table 314: neo_div_vs_diff_brain: diff.CSF vs unifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	577620.7	11651.31	49.57559	0.0000000
unifrac.PC.2	145749.6	72309.70	2.01563	0.0746468

Table 315: neo_div_vs_diff_brain: diff.CSF vs unifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	586889.7	12612.08	46.533948	0.0000000
unifrac.PC.3	179727.7	102437.45	1.754512	0.1132368

Table 316: neo_div_vs_diff_brain: diff.CSF vs unifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	580259.587	13963.97	41.5540609	0.0000000
unifrac.PC.4	6059.906	142209.99	0.0426124	0.9669409

Table 317: neo_div_vs_diff_brain: diff.ICV vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	493387.1055	63594.5352	7.758325	0.0000283
chao1	783.3297	599.1978	1.307297	0.2235215

Table 318: neo_div_vs_diff_brain: diff.ICV vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	526985.1273	76262.524	6.9101454	0.0000699
observed_otus	758.4771	1221.181	0.6211011	0.5499379

Table 319: neo_div_vs_diff_brain: diff.ICV vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	552786.874	126120.39	4.3830094	0.0017634
PD_whole_tree	3949.233	24814.21	0.1591521	0.8770633

Table 320: neo_div_vs_diff_brain: diff.ICV vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	504099.38	121278.74	4.1565353	0.0024604
shannon	24993.21	43612.57	0.5730735	0.5806288

Table 321: neo_div_vs_diff_brain: diff.ICV vs wunifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	576289.04	22696.59	25.3909999	0.0000000
wunifrac.PC.1	-47769.54	113361.65	-0.4213906	0.6833555

Table 322: neo_div_vs_diff_brain: diff.ICV vs wunifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	572493.19	20839.52	27.4715156	0.0000000
wunifrac.PC.2	-90829.08	182974.80	-0.4964021	0.6315084

Table 323: neo_div_vs_diff_brain: diff.ICV vs wunifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	568780.6	20643.55	27.5524665	0.0000000
wunifrac.PC.3	215940.4	237757.42	0.9082383	0.3874257

Table 324: neo_div_vs_diff_brain: diff.ICV vs wunifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	577656.93	24529.93	23.5490639	0.0000000
wunifrac.PC.4	-94530.22	237752.71	-0.3975989	0.7001913

Table 325: neo_div_vs_diff_brain: diff.ICV vs unifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	570764.18	22089.71	25.8384690	0.0000000
unifrac.PC.1	36568.97	135911.23	0.2690651	0.7939462

Table 326: neo_div_vs_diff_brain: diff.ICV vs unifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	567874.5	16186.33	35.083585	0.0000000
unifrac.PC.2	256633.1	100454.68	2.554715	0.0309544

Table 327: neo_div_vs_diff_brain: diff.ICV vs unifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	579266.4	20827.24	27.812918	0.0000000
unifrac.PC.3	182211.5	169162.43	1.077139	0.3094416

Table 328: neo_div_vs_diff_brain: diff.ICV vs unifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	573083.08	20909.07	27.4083541	0.0000000
unifrac.PC.4	-97613.46	212939.34	-0.4584097	0.6575263

Table 329: neo_div_vs_diff_brain: diff.Hippocampus_LR vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1632.3329548	328.905997	4.9629164	0.0007774
chao1	-0.6195523	3.099004	-0.1999198	0.8459875

Table 330: neo_div_vs_diff_brain: diff.Hippocampus_LR vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1761.657092	364.051424	4.8390337	0.0009223
observed_otus	-3.193472	5.829506	-0.5478119	0.5971432

Table 331: neo_div_vs_diff_brain: diff.Hippocampus_LR vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1786.17613	595.6652	2.998624	0.0149898
PD_whole_tree	-43.20008	117.1972	-0.368610	0.7209401

Table 332: neo_div_vs_diff_brain: diff.Hippocampus_LR vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1640.47763	586.2269	2.7983661	0.0207680
shannon	-25.83273	210.8107	-0.1225399	0.9051641

Table 333: neo_div_vs_diff_brain: diff.Hippocampus_LR vs wunifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1582.9892	108.3095	14.6154281	0.0000001
wunifrac.PC.1	-170.9885	540.9686	-0.3160784	0.7591503

Table 334: neo_div_vs_diff_brain: diff.Hippocampus_LR vs wunifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1569.5199	100.0940	15.6804662	0.0000001
wunifrac.PC.2	-196.7357	878.8433	-0.2238576	0.8278671

Table 335: neo_div_vs_diff_brain: diff.Hippocampus_LR vs wunifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1540.997	90.94536	16.944204	0.0000000
wunifrac.PC.3	1632.891	1047.44285	1.558931	0.1534422

Table 336: neo_div_vs_diff_brain: diff.Hippocampus_LR vs wunifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1606.2207	115.2354	13.9386080	0.0000002
wunifrac.PC.4	-679.5238	1116.9017	-0.6084008	0.5579619

Table 337: neo_div_vs_diff_brain: diff.Hippocampus_LR vs unifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1594.9403	101.7117	15.6809933	0.0000001
unifrac.PC.1	-509.2928	625.8010	-0.8138256	0.4367462

Table 338: neo_div_vs_diff_brain: diff.Hippocampus_LR vs unifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1552.0050	86.6889	17.903158	0.0000000
unifrac.PC.2	965.8142	538.0036	1.795181	0.1061973

Table 339: neo_div_vs_diff_brain: diff.Hippocampus_LR vs unifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1551.1186	103.0814	15.0475057	0.0000001
unifrac.PC.3	-506.1105	837.2451	-0.6044951	0.5604429

Table 340: neo_div_vs_diff_brain: diff.Hippocampus_LR vs unifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1573.097	98.20028	16.0192696	0.0000001
unifrac.PC.4	-654.456	1000.07829	-0.6544048	0.5292172

Table 341: neo_div_vs_diff_brain: diff.Amygdala_LR vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1043.323630	173.656838	6.0079617	0.0002005
chao1	1.024373	1.636222	0.6260599	0.5468231

Table 342: neo_div_vs_diff_brain: diff.Amygdala_LR vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1028.45457	194.890341	5.2770936	0.0005091
observed_otus	1.97019	3.120753	0.6313189	0.5435310

Table 343: neo_div_vs_diff_brain: diff.Amygdala_LR vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1023.54109	320.27290	3.1958405	0.0109039
PD_whole_tree	24.61379	63.01375	0.3906099	0.7051705

Table 344: neo_div_vs_diff_brain: diff.Amygdala_LR vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1290.03170	312.0129	4.134546	0.0025422
shannon	-52.24808	112.2017	-0.465662	0.6525205

Table 345: neo_div_vs_diff_brain: diff.Amygdala_LR vs wunifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1108.664	48.56179	22.829970	0.0000000
wunifrac.PC.1	491.736	242.54946	2.027364	0.0732457

Table 346: neo_div_vs_diff_brain: diff.Amygdala_LR vs wunifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1147.40	49.55425	23.154428	0.0000000
wunifrac.PC.2	566.28	435.09538	1.301508	0.2254119

Table 347: neo_div_vs_diff_brain: diff.Amygdala_LR vs wunifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1151.0062	54.73739	21.0277881	0.0000000
wunifrac.PC.3	-234.6801	630.42560	-0.3722566	0.7183162

Table 348: neo_div_vs_diff_brain: diff.Amygdala_LR vs wunifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1194.2912	55.53093	21.506775	0.0000000
wunifrac.PC.4	-882.1499	538.22525	-1.638998	0.1356364

Table 349: neo_div_vs_diff_brain: diff.Amygdala_LR vs unifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1161.0135	54.57108	21.2752544	0.0000000
unifrac.PC.1	-285.1693	335.75920	-0.8493269	0.4177182

Table 350: neo_div_vs_diff_brain: diff.Amygdala_LR vs unifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1143.2252	53.30087	21.4485283	0.000000
unifrac.PC.2	199.5305	330.79277	0.6031889	0.561274

Table 351: neo_div_vs_diff_brain: diff.Amygdala_LR vs unifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1131.9835	54.08413	20.930049	0.0000000
unifrac.PC.3	-405.7587	439.28058	-0.923689	0.3797466

Table 352: neo_div_vs_diff_brain: diff.Amygdala_LR vs unifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	1148.9572	52.48156	21.89259	0.0000000
unifrac.PC.4	-400.0765	534.47571	-0.74854	0.4732417

Table 353: neo_div_vs_diff_brain: diff.mPFC vs chao1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	50243.33547	3890.97274	12.9127955	0.0000004
chao1	29.98677	36.66136	0.8179394	0.4345117

Table 354: neo_div_vs_diff_brain: diff.mPFC vs observed_otus

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	51550.41577	4488.16498	11.4858558	0.0000011
observed_otus	28.68754	71.86838	0.3991677	0.6990756

Table 355: neo_div_vs_diff_brain: diff.mPFC vs PD_whole_tree

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	46276.519	6950.938	6.657593	0.0000929
PD_whole_tree	1396.582	1367.598	1.021193	0.3338272

Table 356: neo_div_vs_diff_brain: diff.mPFC vs shannon

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	63637.993	6263.824	10.159607	0.0000031
shannon	-3782.424	2252.509	-1.679205	0.1274179

Table 357: neo_div_vs_diff_brain: diff.mPFC vs wunifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	52857.019	1283.267	41.1894080	0.0000000
wunifrac.PC.1	5375.573	6409.479	0.8386911	0.4233579

Table 358: neo_div_vs_diff_brain: diff.mPFC vs wunifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	53270.326	1213.996	43.8801464	0.000000
wunifrac.PC.2	-4875.748	10659.108	-0.4574255	0.658207

Table 359: neo_div_vs_diff_brain: diff.mPFC vs wunifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	53061.46	1203.757	44.0798914	0.0000000
wunifrac.PC.3	12136.09	13863.998	0.8753674	0.4041302

Table 360: neo_div_vs_diff_brain: diff.mPFC vs wunifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	53435.381	1434.899	37.2398196	0.0000000
wunifrac.PC.4	-2987.929	13907.545	-0.2148423	0.8346795

Table 361: neo_div_vs_diff_brain: diff.mPFC vs unifrac.PC.1

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	53761.115	1174.688	45.766289	0.0000000
unifrac.PC.1	-9812.957	7227.498	-1.357725	0.2076133

Table 362: neo_div_vs_diff_brain: diff.mPFC vs unifrac.PC.2

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	53005.51	951.0631	55.732906	0.0000000
unifrac.PC.2	14697.75	5902.4329	2.490118	0.0344154

Table 363: neo_div_vs_diff_brain: diff.mPFC vs unifrac.PC.3

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	53222.107	1285.173	41.4124228	0.0000000
unifrac.PC.3	-1435.125	10438.391	-0.1374852	0.8936739

Table 364: neo_div_vs_diff_brain: diff.mPFC vs unifrac.PC.4

	Estimate	Std. Error	t value	Pr(>|t|)
Intercept	53237.128	1206.537	44.123892	0.0000000
unifrac.PC.4	7258.558	12287.459	0.590729	0.5692373
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