

Down Syndrome and Presenilin Variant: Dual Genetic Risk of Alzheimer's Disease

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Supplementary Table 1. Spatial proteomics analysis with nanostring GeoMx DSP of plaque and microglia in the middle temporal gyrus (MSTG) and the caudate nucleus (CN). Descriptive statistics for the 25th, 50th, and 75th percentiles, means and SD are given for each group. The p-value is for the comparison of the Down Syndrome (DS) group with the combination of the *PSEN2* and Family groups. Its critical value is 0.00096, to account for the 51 analytes.

Plaques: MSTG								
Amyloid Analytes								
	Protein	Group	25th percentile	50th percentile	75th percentile	Mean	SD	P-value
	adam10	Index	14.02	17.27	3.42	13.90	10.43	0.39
		Family	53.38	106.74	41.32	62.29	29.57	
		<i>PSEN2</i>	30.09	44.00	75.57	57.13	18.43	
		DS	33.15	45.39	21.97	37.91	27.38	
		<i>PSEN2</i> +Family	34.75	78.35	66.05	58.68	18.80	
	amyloid_beta_1_40	Index	772.68	788.67	63.11	744.53	672.24	0.68
		Family	475.65	524.21	111.39	497.62	412.13	
		<i>PSEN2</i>	502.30	585.58	108.40	490.97	419.84	
		DS	576.32	651.70	169.41	521.42	390.00	
		<i>PSEN2</i> +Family	496.63	565.15	106.37	492.96	415.98	
	amyloid_beta_1_42	Index	394.64	452.06	35.97	410.84	385.82	0.22
		Family	933.01	1177.85	406.75	856.90	433.87	
		<i>PSEN2</i>	637.48	1345.35	669.31	851.10	318.85	
		DS	505.49	715.61	254.88	551.68	339.28	
		<i>PSEN2</i> +Family	709.38	1297.08	591.66	852.84	347.74	
	amyloid_precursor_protein	Index	39.41	63.68	14.29	47.19	38.48	0.32
		Family	181.12	332.83	185.57	239.06	89.29	
		<i>PSEN2</i>	120.38	296.70	119.62	168.04	62.62	
		DS	232.45	459.90	215.96	287.31	110.08	
		<i>PSEN2</i> +Family	143.35	304.10	141.31	189.35	67.19	
	apoe	Index	32.91	41.37	7.29	33.71	26.85	0.69

		Family	334.99	401.27	173.49	348.89	207.61	
		<i>PSEN2</i>	192.17	309.82	186.03	263.44	138.70	
		DS	185.14	311.92	461.19	366.74	74.11	
		<i>PSEN2</i> +Family	218.31	396.86	182.24	289.08	153.37	
	bace1	Index	22.31	33.62	7.32	25.28	19.91	0.95
		Family	81.00	142.62	76.96	106.29	47.86	
		<i>PSEN2</i>	55.99	100.56	40.18	67.42	31.70	
		DS	54.37	109.83	71.32	80.92	27.26	
		<i>PSEN2</i> +Family	70.27	102.23	54.75	79.08	38.47	
	bag3	Index	22.68	23.98	5.17	20.37	14.45	0.73
		Family	140.45	207.76	88.36	148.80	69.13	
		<i>PSEN2</i>	46.39	82.92	65.35	77.48	35.87	
		DS	71.79	111.44	46.76	87.51	58.79	
		<i>PSEN2</i> +Family	67.83	175.73	78.11	98.87	38.51	
	ide	Index	17.97	24.14	4.61	19.08	15.13	0.55
		Family	74.53	115.51	28.99	83.73	70.77	
		<i>PSEN2</i>	45.85	61.66	19.92	48.20	29.53	
		DS	45.06	60.79	26.96	51.51	31.31	
		<i>PSEN2</i> +Family	53.21	73.64	27.78	58.86	37.35	
	neprilysin	Index	28.39	32.32	5.51	27.38	21.43	0.43
		Family	120.36	153.69	36.60	126.06	105.69	
		<i>PSEN2</i>	44.91	81.32	74.23	75.72	32.90	
		DS	61.98	87.45	32.40	68.96	45.54	
		<i>PSEN2</i> +Family	72.03	121.89	68.43	90.82	35.02	
	psen1	Index	78.28	113.56	21.29	89.04	75.28	0.37
		Family	235.90	323.74	115.54	256.03	182.17	
		<i>PSEN2</i>	167.90	178.08	57.17	160.88	122.78	
		DS	183.60	355.94	294.54	303.21	98.79	
		<i>PSEN2</i> +Family	172.22	193.05	88.04	189.42	142.21	
Neuroinflammation Analytes								

	Protein	Group	25th percentile	50th percentile	75th percentile	Mean	SD	P-value
	c4b	Index	29.74	30.23	4.27	27.53	22.61	0.26
		Family	187.82	235.87	129.21	217.19	124.05	
		<i>PSEN2</i>	61.63	200.61	707.85	418.51	39.67	
		DS	70.84	114.94	33.96	83.07	56.18	
		<i>PSEN2</i> +Family	116.27	229.10	596.80	358.11	40.27	
	cd9	Index	76.59	101.86	21.55	79.15	58.99	0.63
		Family	419.99	922.96	415.92	559.08	213.42	
		<i>PSEN2</i>	181.37	322.52	204.35	265.95	112.28	
		DS	185.39	361.63	206.13	286.93	156.05	
		<i>PSEN2</i> +Family	235.03	539.80	305.11	353.89	128.72	
	cd11b	Index	76.99	86.41	15.29	73.30	56.51	0.17
		Family	227.68	248.64	76.26	240.16	181.32	
		<i>PSEN2</i>	131.42	177.68	51.08	144.49	107.37	
		DS	210.63	335.25	110.38	231.21	115.82	
		<i>PSEN2</i> +Family	172.21	227.55	73.07	173.19	120.51	
	cd11c	Index	22.81	28.07	3.05	24.55	22.76	0.69
		Family	69.98	90.64	22.55	72.04	52.34	
		<i>PSEN2</i>	45.76	82.12	42.38	57.04	24.06	
		DS	48.32	85.00	52.52	69.16	35.56	
		<i>PSEN2</i> +Family	59.09	84.78	37.58	61.54	26.06	
	cd163	Index	2.53	3.29	1.19	2.26	0.97	0.01
		Family	27.25	31.45	12.40	25.04	16.50	
		<i>PSEN2</i>	11.46	21.36	14.29	15.88	7.03	
		DS	5.04	8.19	2.84	5.53	3.47	
		<i>PSEN2</i> +Family	15.67	25.22	14.10	18.63	7.40	
	cd39	Index	8.65	10.07	1.88	8.36	6.35	0.08
		Family	33.60	54.37	12.55	39.11	29.37	
		<i>PSEN2</i>	22.64	40.96	16.10	25.66	10.59	
		DS	17.36	22.84	10.77	18.93	11.13	
		<i>PSEN2</i> +Family	29.45	42.03	16.08	29.69	13.08	

	cd40	Index	6.34	7.57	1.69	6.04	4.22	0.81
		Family	52.41	58.82	13.75	49.10	33.94	
		<i>PSEN2</i>	18.75	31.14	18.65	25.25	12.49	
		DS	20.34	41.94	21.45	29.94	14.78	
		<i>PSEN2</i> +Family	29.97	49.36	20.33	32.41	12.88	
	cd45	Index	24.18	33.71	6.04	26.80	22.51	0.94
		Family	80.93	86.22	25.56	87.29	75.87	
		<i>PSEN2</i>	44.37	79.94	35.03	56.46	30.80	
		DS	59.77	87.34	34.78	67.04	41.74	
		<i>PSEN2</i> +Family	59.25	85.02	34.95	65.71	37.28	
	cd68	Index	17.21	19.93	4.57	16.06	11.02	0.34
		Family	86.97	137.59	36.96	99.51	68.42	
		<i>PSEN2</i>	44.78	67.09	79.98	76.37	24.92	
		DS	45.17	68.77	31.34	56.44	32.36	
		<i>PSEN2</i> +Family	63.03	117.98	69.67	83.31	29.99	
	clec7a	Index	12.44	19.02	4.30	14.13	10.92	0.49
		Family	42.32	64.70	27.79	45.11	19.26	
		<i>PSEN2</i>	15.01	28.02	18.20	24.82	12.10	
		DS	24.78	33.16	10.09	24.54	15.51	
		<i>PSEN2</i> +Family	22.09	49.03	22.82	30.91	13.31	
	csf1r	Index	34.69	38.15	4.66	33.92	28.93	0.82
		Family	131.92	163.87	49.54	145.98	106.50	
		<i>PSEN2</i>	64.99	111.30	42.27	81.60	50.65	
		DS	100.77	116.76	54.28	106.23	73.14	
		<i>PSEN2</i> +Family	104.38	130.00	52.77	100.92	57.70	
	emp1	Index	15.00	21.68	5.92	15.52	9.88	0.97
		Family	74.62	107.75	44.48	77.52	42.89	
		<i>PSEN2</i>	41.46	60.55	34.02	54.49	29.29	
		DS	51.64	87.61	34.96	60.70	30.15	
		<i>PSEN2</i> +Family	42.46	92.41	37.81	61.40	31.44	
	gfap	Index	114.45	118.34	31.94	97.99	61.18	0.68
		Family	493.05	664.89	395.81	598.37	317.61	

		<i>PSEN2</i>	485.67	674.23	569.82	671.00	328.90	
		DS	422.05	688.71	300.37	558.16	354.44	
		<i>PSEN2</i> +Family	485.67	669.56	514.35	649.21	323.25	
	gpnmb	Index	7.95	8.85	0.68	8.11	7.52	0.44
		Family	43.83	65.94	21.59	44.95	27.05	
		<i>PSEN2</i>	18.93	39.48	40.87	34.51	11.07	
		DS	21.26	34.83	16.20	26.79	13.99	
		<i>PSEN2</i> +Family	25.96	52.35	35.91	37.64	11.88	
	hla_dr	Index	10.10	11.14	1.41	9.86	8.35	0.35
		Family	80.21	120.75	46.08	79.61	41.51	
		<i>PSEN2</i>	29.48	52.24	38.39	47.82	25.24	
		DS	41.84	49.38	19.94	40.12	24.32	
		<i>PSEN2</i> +Family	38.79	99.46	42.31	57.36	26.46	
	iba1	Index	34.11	40.86	11.06	31.40	19.24	0.14
		Family	177.93	225.29	80.96	180.65	107.96	
		<i>PSEN2</i>	97.66	154.64	65.86	112.03	61.37	
		DS	134.03	223.27	333.28	246.04	103.81	
		<i>PSEN2</i> +Family	113.95	208.65	75.72	132.62	72.49	
	mertk	Index	36.52	49.81	9.75	39.05	30.81	0.68
		Family	147.36	323.73	117.78	185.16	94.47	
		<i>PSEN2</i>	65.58	122.91	76.28	102.18	53.40	
		DS	101.98	134.97	47.72	111.00	66.99	
		<i>PSEN2</i> +Family	84.09	197.86	95.68	127.07	55.20	
	p2rx7	Index	280.54	292.35	15.31	278.30	261.99	0.36
		Family	387.01	430.13	100.16	406.02	342.90	
		<i>PSEN2</i>	257.36	321.97	77.38	254.05	208.59	
		DS	254.36	268.72	65.69	260.63	215.21	
		<i>PSEN2</i> +Family	310.63	347.88	108.82	299.64	212.11	
	p2ry12	Index	25.92	33.30	9.65	24.46	14.17	0.36
		Family	60.35	67.44	16.64	64.87	57.55	
		<i>PSEN2</i>	49.97	70.86	31.44	55.08	28.91	
		DS	56.06	120.02	80.00	85.72	24.00	

		<i>PSEN2</i> +Family	58.46	69.99	27.76	58.02	34.47	
	s100b	Index	384.12	453.47	104.85	361.66	247.41	0.46
		Family	1902.49	2917.84	1654.23	2442.63	1239.05	
		<i>PSEN2</i>	1397.45	2416.43	934.31	1718.89	1114.07	
		DS	1926.44	2924.88	1592.18	2424.31	1457.86	
		<i>PSEN2</i> +Family	1397.45	2495.16	1197.16	1936.01	1162.69	
	ubiquitin	Index	216.47	277.88	52.16	222.84	174.16	0.40
		Family	396.98	453.70	317.16	496.79	313.10	
		<i>PSEN2</i>	245.89	339.69	280.24	339.72	183.76	
		DS	250.72	416.73	130.43	300.86	216.37	
		<i>PSEN2</i> +Family	300.43	425.53	292.67	386.84	193.48	
	vimentin	Index	1619.90	1782.56	186.74	1604.18	1410.08	0.50
		Family	5360.77	8009.36	2467.27	6393.26	4936.94	
		<i>PSEN2</i>	2799.73	6908.01	7148.12	6147.98	1673.52	
		DS	3315.07	4932.74	3522.46	4588.38	2362.62	
		<i>PSEN2</i> +Family	4949.25	7458.68	6047.76	6221.56	1705.58	
	tmem119	Index	32.05	36.31	6.12	30.87	24.24	0.10
		Family	98.32	106.69	43.77	111.50	89.17	
		<i>PSEN2</i>	73.28	86.65	23.88	74.98	65.05	
		DS	83.48	203.80	107.89	135.88	62.67	
		<i>PSEN2</i> +Family	81.95	101.92	34.49	85.94	68.31	
Tau Analytes								
	Protein	Group	25th percentile	50th percentile	75th percentile	Mean	SD	P-value
	phospho_tau_s199	Index	1280.99	1534.94	181.47	1333.12	1183.42	0.55
		Family	4766.33	8104.64	3940.35	6055.53	3243.49	
		<i>PSEN2</i>	2085.00	6148.53	6004.39	5026.94	1328.07	
		DS	2566.01	4177.60	3221.35	4003.11	1940.36	
		<i>PSEN2</i> +Family	3285.77	7154.62	5383.99	5335.51	1489.91	
	phospho_tau_s214	Index	237.43	249.23	41.73	219.48	171.77	0.30
		Family	528.90	918.83	410.21	646.36	298.61	

		<i>PSEN2</i>	209.91	983.23	956.07	666.76	94.41	
		DS	355.57	447.48	201.04	349.79	137.25	
		<i>PSEN2</i> +Family	285.60	951.03	818.41	660.64	148.27	
	phospho_tau_s396	Index	1878.59	2163.46	204.71	1936.13	1766.35	0.32
		Family	5674.45	7019.16	2455.51	6238.90	4982.21	
		<i>PSEN2</i>	1611.79	4840.72	7979.41	5375.92	1299.13	
		DS	1950.38	4650.98	2064.89	3022.62	1763.93	
		<i>PSEN2</i> +Family	3162.74	6538.34	6731.70	5634.82	1510.08	
	phospho_tau_s404	Index	155.59	210.56	37.23	168.57	139.57	0.33
		Family	837.37	902.87	300.57	902.23	715.69	
		<i>PSEN2</i>	521.82	1020.07	1614.19	1217.64	364.19	
		DS	538.67	836.70	330.29	621.07	432.91	
		<i>PSEN2</i> +Family	681.39	961.99	1352.23	1123.02	397.00	
	phospho_tau_t231	Index	1678.68	1854.92	221.63	1649.39	1414.56	0.24
		Family	4628.96	5223.43	1116.55	4719.95	3702.11	
		<i>PSEN2</i>	3243.68	10168.05	7804.76	6801.87	1818.20	
		DS	2855.72	4606.01	1722.24	3268.78	1946.53	
		<i>PSEN2</i> +Family	3648.54	7510.04	6554.72	6177.29	2248.37	
	tau	Index	202.29	238.66	28.77	207.61	181.87	0.58
		Family	586.05	846.63	218.82	607.87	376.70	
		<i>PSEN2</i>	361.18	402.41	202.48	361.94	229.56	
		DS	325.55	532.45	208.71	373.63	208.58	
		<i>PSEN2</i> +Family	372.82	607.56	232.43	435.72	333.68	
Other analytes								
	Protein	Group	25th percentile	50th percentile	75th percentile	Mean	SD	P-value
	atg12	Index	5.78	6.15	0.92	5.45	4.41	0.51
		Family	47.07	66.72	21.24	49.63	34.81	
		<i>PSEN2</i>	16.98	26.27	32.94	31.08	14.13	
		DS	21.86	37.53	16.10	28.33	16.91	
		<i>PSEN2</i> +Family	21.56	61.81	30.61	36.64	14.96	

	atg5	Index	9.72	13.70	3.34	10.15	7.05	0.45
		Family	60.41	81.43	37.36	62.76	27.07	
		<i>PSEN2</i>	17.17	43.78	20.78	25.95	13.34	
		DS	21.78	47.63	17.12	27.88	12.81	
		<i>PSEN2</i> +Family	22.75	59.66	31.02	36.99	14.40	
	ctsd	Index	15.10	17.04	1.89	15.13	13.26	0.93
		Family	62.91	113.54	52.86	80.48	39.02	
		<i>PSEN2</i>	44.87	81.56	120.59	99.93	30.43	
		DS	60.66	105.63	86.28	89.55	37.15	
		<i>PSEN2</i> +Family	47.98	98.67	103.78	94.10	31.99	
	gba	Index	20.66	37.16	11.20	24.54	15.80	0.88
		Family	130.52	238.52	124.78	155.12	51.99	
		<i>PSEN2</i>	52.17	138.69	61.85	80.43	30.66	
		DS	79.08	166.58	97.87	110.26	28.14	
		<i>PSEN2</i> +Family	59.27	152.48	89.15	102.84	32.81	
	histone_h3	Index	268.40	364.48	66.33	290.04	237.23	0.32
		Family	1446.08	1547.30	716.81	1510.36	960.19	
		<i>PSEN2</i>	380.82	862.03	2423.85	1570.19	200.74	
		DS	458.62	841.89	512.04	707.94	353.90	
		<i>PSEN2</i> +Family	771.44	1501.99	2038.57	1552.24	219.73	
	hsc70	Index	68.37	89.74	18.10	70.62	53.75	0.39
		Family	154.47	270.47	117.30	192.01	111.76	
		<i>PSEN2</i>	179.94	306.36	124.40	217.65	126.13	
		DS	147.63	198.97	108.68	162.57	79.85	
		<i>PSEN2</i> +Family	170.75	305.98	119.81	209.96	116.96	
	lamp2a	Index	2.94	5.77	2.19	3.39	1.46	0.13
		Family	20.43	32.68	22.56	27.26	11.50	
		<i>PSEN2</i>	11.49	26.53	13.16	15.47	5.11	
		DS	7.85	12.21	4.43	9.41	6.46	
		<i>PSEN2</i> +Family	13.19	28.30	16.83	19.01	6.22	
	p62	Index	8.19	16.28	4.77	10.78	7.86	0.64
		Family	65.05	101.03	41.58	73.19	48.03	

		<i>PSEN2</i>	24.79	83.28	290.20	137.30	14.39	
		DS	60.69	83.65	63.15	81.37	40.38	
		<i>PSEN2</i> +Family	34.75	92.16	242.87	118.07	22.35	
	tfeb	Index	82.08	124.80	25.88	95.01	78.15	0.72
		Family	407.02	487.79	174.54	459.57	340.10	
		<i>PSEN2</i>	270.97	417.88	153.35	307.62	226.03	
		DS	320.40	515.65	191.05	385.32	232.46	
		<i>PSEN2</i> +Family	349.06	435.06	170.91	353.21	237.64	
	lc3b	Index	10.01	12.65	1.89	10.54	8.98	0.83
		Family	402.23	677.29	416.79	468.11	126.08	
		<i>PSEN2</i>	102.43	183.30	87.09	133.50	58.07	
		DS	220.74	445.76	226.03	263.07	48.92	
		<i>PSEN2</i> +Family	128.01	249.25	275.05	233.88	75.72	
	vps35	Index	21.34	26.74	6.05	20.91	14.66	0.32
		Family	63.40	75.01	19.29	59.36	43.63	
		<i>PSEN2</i>	40.16	52.70	23.50	43.51	32.17	
		DS	45.59	120.36	59.82	71.95	25.99	
		<i>PSEN2</i> +Family	42.75	63.40	23.05	48.26	32.35	
	phospho_tdp_43_s409_s410	Index	6.32	8.83	1.47	7.14	6.27	0.11
		Family	24.81	32.70	15.98	23.06	5.53	
		<i>PSEN2</i>	12.03	17.18	6.58	13.04	8.16	
		DS	10.49	13.06	3.87	10.62	7.76	
		<i>PSEN2</i> +Family	13.27	20.80	10.91	16.05	7.35	
	tdp43	Index	7.53	11.94	2.56	8.98	7.47	0.91
		Family	28.53	59.37	20.74	38.49	27.37	
		<i>PSEN2</i>	20.65	30.83	16.84	25.00	15.01	
		DS	23.47	35.54	17.36	28.02	13.85	
		<i>PSEN2</i> +Family	25.55	31.37	18.64	29.05	16.90	
Plaques: CN								
Amyloid Analytes								

	Protein	Group	25th percentile	50th percentile	75th percentile	Mean	SD	P-value
	adam10	Index	10.35	13.03	1.82	10.98	9.55	0.26
		Family	14.78	15.34	5.74	12.85	10.28	
		<i>PSEN2</i>	11.24	18.94	5.36	13.44	9.33	
		DS	13.03	27.32	20.45	21.43	6.66	
		<i>PSEN2</i> +Family	14.67	17.31	5.33	13.27	10.06	
	amyloid_beta_1_40	Index	539.40	550.79	17.84	535.34	515.82	0.82
		Family	563.69	585.39	112.24	516.31	391.00	
		<i>PSEN2</i>	456.38	497.00	87.22	462.44	424.85	
		DS	463.60	593.57	176.93	459.51	284.21	
		<i>PSEN2</i> +Family	459.20	566.32	95.38	477.83	424.85	
	amyloid_beta_1_42	Index	1351.52	1752.34	270.11	1447.37	1238.26	0.50
		Family	1750.60	3068.74	1497.07	1791.84	537.30	
		<i>PSEN2</i>	1744.89	2156.17	705.77	1532.77	766.28	
		DS	1113.74	1297.09	873.87	1246.37	785.93	
		<i>PSEN2</i> +Family	1744.89	2181.85	960.92	1606.79	685.02	
	amyloid_precursor_protein	Index	78.21	90.66	12.69	78.05	65.29	0.81
		Family	83.34	100.94	25.62	82.02	68.19	
		<i>PSEN2</i>	172.05	196.21	68.42	141.57	73.60	
		DS	102.54	188.53	70.70	115.16	48.81	
		<i>PSEN2</i> +Family	100.94	181.07	64.82	124.56	71.39	
	apoe	Index	468.22	561.36	60.35	492.62	448.29	0.03
		Family	225.33	372.76	142.07	235.38	136.23	
		<i>PSEN2</i>	289.40	369.49	135.63	281.09	180.66	
		DS	100.09	184.49	68.34	121.67	70.01	
		<i>PSEN2</i> +Family	289.40	369.49	135.54	268.03	151.41	
	bace1	Index	41.46	54.15	7.47	45.53	40.98	0.96
		Family	59.92	70.69	25.76	51.41	21.27	
		<i>PSEN2</i>	51.49	64.30	21.31	47.61	27.09	
		DS	28.74	49.37	47.45	49.76	21.68	
		<i>PSEN2</i> +Family	57.89	64.30	22.06	48.70	27.09	

	bag3	Index	50.68	60.24	7.67	51.99	45.07	0.87
		Family	93.97	114.42	27.50	93.38	79.48	
		<i>PSEN2</i>	197.29	242.54	66.32	178.09	119.92	
		DS	173.25	242.06	88.03	161.51	76.36	
		<i>PSEN2</i> +Family	124.18	210.76	69.33	153.89	96.23	
	ide	Index	18.54	18.60	1.34	17.79	16.24	0.47
		Family	35.00	46.20	13.10	41.37	33.02	
		<i>PSEN2</i>	43.81	53.65	15.57	38.97	20.99	
		DS	30.93	43.91	20.89	33.03	17.54	
		<i>PSEN2</i> +Family	36.18	51.72	14.63	39.65	32.19	
	neprilysin	Index	82.13	87.80	6.11	81.84	75.59	0.15
		Family	97.33	98.77	20.28	89.87	96.79	
		<i>PSEN2</i>	132.83	182.11	49.36	132.12	87.51	
		DS	49.22	138.11	51.27	80.71	42.36	
		<i>PSEN2</i> +Family	111.17	154.98	46.80	120.05	96.79	
	psen1	Index	135.41	152.09	13.89	137.34	124.52	0.46
		Family	247.47	336.21	104.02	240.94	134.44	
		<i>PSEN2</i>	123.72	182.54	85.89	164.28	116.40	
		DS	149.38	300.37	387.28	312.26	60.79	
		<i>PSEN2</i> +Family	134.44	282.44	95.54	186.18	118.10	
Neuroinflammation Analytes								
	Protein	Group	25th percentile	50th percentile	75th percentile	Mean	SD	P-value
	c4b	Index	19.43	22.91	4.62	18.70	13.76	0.12
		Family	27.72	36.70	9.12	29.13	21.50	
		<i>PSEN2</i>	27.18	44.64	16.12	31.63	20.15	
		DS	48.73	192.58	167.97	123.27	24.47	
		<i>PSEN2</i> +Family	27.18	36.70	14.28	30.92	21.50	
	cd9	Index	220.45	221.02	25.76	205.87	176.13	0.18
		Family	404.80	484.94	117.72	387.45	358.35	

		<i>PSEN2</i>	535.47	1123.38	468.19	732.47	332.24	
		DS	217.28	615.01	267.45	358.21	143.75	
		<i>PSEN2</i> +Family	460.93	861.93	427.10	633.89	358.35	
	cd11b	Index	91.89	93.56	1.13	92.28	91.39	0.39
		Family	137.31	180.93	55.99	132.95	87.15	
		<i>PSEN2</i>	151.67	186.72	49.13	143.79	102.52	
		DS	99.24	153.86	59.49	113.71	60.79	
		<i>PSEN2</i> +Family	151.67	180.93	49.98	140.69	96.18	
	cd11c	Index	24.09	24.94	3.83	22.32	17.92	0.44
		Family	18.62	21.04	10.55	19.41	13.84	
		<i>PSEN2</i>	15.49	19.54	7.04	16.29	11.80	
		DS	16.09	27.50	17.35	22.97	10.24	
		<i>PSEN2</i> +Family	17.51	19.54	8.04	17.18	11.89	
	cd163	Index	1.66	2.94	0.75	2.07	1.62	0.48
		Family	9.77	17.59	7.62	10.26	3.05	
		<i>PSEN2</i>	11.20	14.27	6.49	10.73	3.71	
		DS	7.77	13.87	5.49	8.31	2.97	
		<i>PSEN2</i> +Family	11.20	14.71	6.64	10.59	3.71	
	cd39	Index	15.55	22.13	4.72	16.88	12.97	0.67
		Family	13.33	14.67	6.12	14.92	11.69	
		<i>PSEN2</i>	10.49	14.89	6.36	11.00	4.99	
		DS	10.07	20.14	9.17	13.83	7.20	
		<i>PSEN2</i> +Family	11.69	14.86	6.40	12.12	7.03	
	cd40	Index	13.21	18.22	5.66	12.78	6.92	0.78
		Family	24.48	38.46	9.92	28.37	20.57	
		<i>PSEN2</i>	24.02	33.68	13.90	24.22	12.77	
		DS	14.02	39.66	19.02	22.89	7.78	
		<i>PSEN2</i> +Family	24.02	33.68	12.79	25.41	16.33	
	cd45	Index	24.41	30.41	6.02	24.40	18.38	0.92
		Family	54.74	62.99	23.29	48.80	42.31	
		<i>PSEN2</i>	46.82	68.39	18.58	49.19	33.68	
		DS	44.03	78.84	33.41	50.61	23.83	

		<i>PSEN2</i> +Family	46.91	62.99	19.43	49.08	39.01	
	cd68	Index	28.75	30.76	1.54	29.08	27.73	0.59
		Family	44.61	58.73	12.09	45.61	35.34	
		<i>PSEN2</i>	50.39	68.38	18.49	50.23	36.34	
		DS	33.47	53.66	28.61	41.68	18.83	
		<i>PSEN2</i> +Family	45.37	60.18	16.75	48.91	36.34	
	clec7a	Index	6.07	11.16	3.16	7.54	5.38	0.84
		Family	23.90	32.71	9.28	24.41	20.88	
		<i>PSEN2</i>	22.64	27.66	6.66	22.02	15.75	
		DS	13.09	37.85	20.19	24.40	9.74	
		<i>PSEN2</i> +Family	22.72	27.66	7.34	22.70	18.54	
	csf1r	Index	83.11	89.33	7.70	82.16	74.03	0.89
		Family	123.60	145.41	41.35	112.27	86.67	
		<i>PSEN2</i>	153.87	184.04	37.24	151.66	117.73	
		DS	132.33	214.79	102.05	146.48	56.49	
		<i>PSEN2</i> +Family	143.97	166.06	41.60	140.40	113.39	
	emp1	Index	36.11	36.93	3.59	34.46	30.34	0.68
		Family	67.56	77.52	22.54	60.79	49.67	
		<i>PSEN2</i>	79.07	106.61	29.34	79.68	58.75	
		DS	56.17	94.13	50.99	65.11	25.39	
		<i>PSEN2</i> +Family	70.84	91.60	28.39	74.28	58.75	
	gfap	Index	139.73	183.26	39.27	142.62	104.87	0.12
		Family	277.60	322.99	73.89	259.19	177.53	
		<i>PSEN2</i>	1406.75	2175.21	922.57	1516.11	807.51	
		DS	479.72	735.70	328.85	511.72	189.36	
		<i>PSEN2</i> +Family	916.32	1978.95	967.32	1156.99	312.90	
	gpnmb	Index	2.71	4.60	1.16	3.27	2.49	0.96
		Family	8.59	9.35	1.80	8.05	6.36	
		<i>PSEN2</i>	9.33	16.25	8.95	12.25	5.42	
		DS	7.34	14.14	11.07	11.29	4.18	
		<i>PSEN2</i> +Family	8.96	11.81	7.79	11.05	5.71	
	hla_dr	Index	109.03	122.17	16.45	106.89	89.48	0.79

		Family	157.01	241.81	79.82	190.21	133.87	
		<i>PSEN2</i>	194.07	352.79	170.06	250.08	124.82	
		DS	94.28	536.71	285.95	267.69	58.30	
		<i>PSEN2</i> +Family	177.07	326.98	150.35	232.97	125.03	
	iba1	Index	62.72	65.58	8.23	59.47	50.11	0.77
		Family	90.15	96.50	17.99	84.75	83.29	
		<i>PSEN2</i>	114.12	131.73	38.96	106.08	95.83	
		DS	112.25	158.29	70.34	109.09	37.34	
		<i>PSEN2</i> +Family	99.90	118.83	35.23	99.98	89.42	
	merlk	Index	34.60	36.00	1.34	34.65	33.33	0.86
		Family	69.08	71.75	18.82	67.38	58.60	
		<i>PSEN2</i>	57.83	82.84	26.32	60.54	34.55	
		DS	69.81	81.73	28.43	64.97	36.54	
		<i>PSEN2</i> +Family	64.11	76.96	24.16	62.49	39.00	
	p2rx7	Index	229.13	259.73	19.43	237.52	223.69	0.17
		Family	247.08	267.22	43.26	242.86	222.81	
		<i>PSEN2</i>	245.50	263.84	48.87	228.38	187.21	
		DS	201.45	226.67	30.75	203.71	182.20	
		<i>PSEN2</i> +Family	245.50	263.84	46.74	232.52	187.22	
	p2ry12	Index	63.80	73.55	8.69	64.52	56.22	0.60
		Family	67.57	78.43	24.28	63.51	47.39	
		<i>PSEN2</i>	49.67	106.39	30.67	68.20	44.43	
		DS	47.76	87.52	42.08	56.31	19.50	
		<i>PSEN2</i> +Family	55.71	93.53	28.47	66.86	46.38	
	s100b	Index	1070.84	1088.34	29.28	1063.46	1031.19	0.16
		Family	1988.17	2910.55	1126.28	2035.80	1140.91	
		<i>PSEN2</i>	2635.57	3171.96	908.42	2554.75	2496.81	
		DS	1669.34	2347.60	944.90	1621.01	743.64	
		<i>PSEN2</i> +Family	2635.57	3091.02	975.96	2406.48	1274.55	
	ubiquitin	Index	165.66	171.19	7.83	164.20	155.73	0.52
		Family	219.93	409.45	195.89	222.63	42.05	
		<i>PSEN2</i>	186.13	334.82	111.89	230.60	125.59	

		DS	161.59	178.11	125.92	180.18	133.62	
		<i>PSEN2</i> +Family	186.13	368.87	135.53	228.32	122.42	
	vimentin	Index	367.18	552.90	157.66	386.48	239.35	0.26
		Family	334.30	395.47	89.88	314.63	234.40	
		<i>PSEN2</i>	360.68	397.90	150.94	312.13	166.07	
		DS	284.29	1507.71	2763.03	1312.42	137.15	
		<i>PSEN2</i> +Family	360.68	395.74	134.05	312.85	204.62	
	tmem119	Index	54.44	63.61	5.35	57.43	54.25	0.70
		Family	103.64	139.97	49.87	95.12	44.60	
		<i>PSEN2</i>	109.41	126.53	31.67	101.34	73.36	
		DS	67.22	104.82	70.11	87.40	36.64	
		<i>PSEN2</i> +Family	109.41	126.53	36.49	99.57	73.36	
Tau Analytes								
	Protein	Group	25th percentile	50th percentile	75th percentile	Mean	SD	P-value
	phospho_tau_s199	Index	336.77	451.41	105.33	343.07	241.04	0.26
		Family	265.22	374.82	94.83	269.19	172.80	
		<i>PSEN2</i>	209.09	283.16	110.52	222.49	123.97	
		DS	211.13	1036.71	2125.78	993.67	118.54	
		<i>PSEN2</i> +Family	227.22	283.16	106.14	235.84	129.75	
	phospho_tau_s214	Index	26.12	27.86	2.77	25.47	22.44	0.33
		Family	16.62	22.55	5.91	17.06	11.78	
		<i>PSEN2</i>	25.20	31.73	13.41	24.35	11.05	
		DS	12.20	52.33	619.51	205.26	7.59	
		<i>PSEN2</i> +Family	22.55	28.48	12.08	22.27	11.78	
	phospho_tau_s396	Index	178.07	222.69	43.08	179.11	136.56	0.22
		Family	218.89	337.89	71.20	252.35	197.70	
		<i>PSEN2</i>	106.78	158.19	77.14	138.51	81.23	
		DS	193.17	1450.01	2769.41	1172.73	97.98	
		<i>PSEN2</i> +Family	154.23	213.83	90.61	171.03	96.13	
	phospho_tau_s404	Index	160.77	167.80	10.76	158.41	146.67	0.36

		Family	278.34	448.90	171.53	280.55	145.66	
		<i>PSEN2</i>	203.09	284.22	101.35	217.86	148.66	
		DS	198.73	675.98	567.94	431.72	35.57	
		<i>PSEN2</i> +Family	203.09	304.17	124.05	235.77	148.66	
	phospho_tau_t231	Index	575.71	802.32	152.73	629.89	511.63	0.31
		Family	431.57	588.07	206.92	405.96	194.27	
		<i>PSEN2</i>	419.44	545.19	206.77	431.03	270.29	
		DS	326.31	1237.21	2853.95	1343.09	160.36	
		<i>PSEN2</i> +Family	419.44	545.19	201.90	423.87	270.29	
	tau	Index	219.02	274.40	39.23	230.66	198.58	0.21
		Family	252.94	460.92	211.64	262.00	69.58	
		<i>PSEN2</i>	238.55	260.07	75.55	252.35	206.19	
		DS	177.75	239.51	105.82	171.76	76.38	
		<i>PSEN2</i> +Family	238.55	356.52	123.35	255.11	172.28	
Other analytes								
	Protein	Group	25th percentile	50th percentile	75th percentile	Mean	SD	P-value
	atg12	Index	13.10	13.14	1.11	12.48	11.20	0.81
		Family	24.29	40.35	14.17	30.58	22.59	
		<i>PSEN2</i>	33.41	52.70	16.02	35.74	19.71	
		DS	36.95	57.00	21.06	36.66	16.29	
		<i>PSEN2</i> +Family	33.03	50.40	15.35	34.27	22.59	
	atg5	Index	13.87	15.26	1.12	14.06	13.04	0.22
		Family	43.50	45.68	7.05	44.27	39.89	
		<i>PSEN2</i>	46.01	74.55	24.34	58.39	41.92	
		DS	32.25	59.23	20.44	39.53	22.31	
		<i>PSEN2</i> +Family	45.61	57.96	21.67	54.36	41.92	
	ctsd	Index	17.62	18.73	1.37	17.46	16.01	
		Family	22.20	25.30	8.90	18.26	7.79	
		<i>PSEN2</i>	29.97	35.17	12.75	29.86	18.44	
		DS	27.53	51.40	32.40	37.16	12.37	
		<i>PSEN2</i> +Family	25.30	32.41	12.74	26.55	18.44	

	gba	Index	23.80	27.81	2.60	24.85	22.95	0.43
		Family	17.22	38.04	11.39	23.71	16.18	
		<i>PSEN2</i>	33.41	45.54	16.49	31.80	15.42	
		DS	21.99	69.60	33.29	41.36	14.02	
		<i>PSEN2</i> +Family	21.78	39.25	15.39	29.49	16.18	
	histone_h3	Index	309.16	409.43	98.79	310.15	211.87	0.89
		Family	360.98	493.96	164.38	372.61	248.62	
		<i>PSEN2</i>	337.84	446.85	160.64	351.75	263.12	
		DS	219.10	436.38	337.91	338.30	93.62	
		<i>PSEN2</i> +Family	337.84	446.85	157.84	357.71	263.12	
	hsc70	Index	226.06	231.12	25.28	214.07	185.03	0.15
		Family	167.05	185.78	41.26	159.31	126.83	
		<i>PSEN2</i>	359.93	1186.39	491.72	643.82	290.90	
		DS	248.89	271.38	132.67	214.29	62.62	
		<i>PSEN2</i> +Family	300.83	944.93	469.02	505.39	167.94	
	lamp2a	Index	11.16	12.85	2.25	10.80	8.40	0.60
		Family	9.98	14.70	5.95	11.00	6.14	
		<i>PSEN2</i>	11.70	18.86	6.03	12.60	7.07	
		DS	11.94	13.95	5.15	11.02	7.33	
		<i>PSEN2</i> +Family	11.70	14.70	5.91	12.14	7.07	
	p62	Index	16.80	17.75	2.63	15.79	12.80	0.29
		Family	16.37	25.99	6.83	19.20	13.93	
		<i>PSEN2</i>	15.78	23.19	9.47	17.84	11.45	
		DS	18.58	40.00	36.03	31.28	9.89	
		<i>PSEN2</i> +Family	16.03	23.19	8.65	18.23	12.03	
	tfeb	Index	264.82	286.34	16.74	268.18	253.37	0.39
		Family	461.82	538.11	144.84	419.99	255.30	
		<i>PSEN2</i>	464.47	643.19	172.34	521.91	389.42	
		DS	469.45	554.65	184.16	405.70	195.39	
		<i>PSEN2</i> +Family	464.47	562.37	168.11	492.79	389.42	
	lc3b	Index	86.52	88.42	5.40	84.40	78.26	0.79
		Family	152.99	264.63	75.30	186.46	130.69	

		<i>PSEN2</i>	249.87	602.39	245.62	337.83	107.67	
		DS	146.40	723.31	327.24	338.94	58.16	
		<i>PSEN2</i> +Family	227.47	476.15	220.36	294.58	121.24	
	vps35	Index	30.30	33.43	5.79	28.65	22.21	0.60
		Family	95.55	107.63	23.65	87.13	64.68	
		<i>PSEN2</i>	96.05	128.19	74.20	117.70	63.54	
		DS	142.54	210.74	85.54	132.18	53.86	
		<i>PSEN2</i> +Family	96.05	113.50	64.77	108.97	64.68	
	phospho_tdp_43_s409_s410	Index	5.78	9.90	2.54	6.98	5.26	0.96
		Family	11.32	13.51	3.66	10.77	7.28	
		<i>PSEN2</i>	9.68	16.70	4.60	11.36	7.13	
		DS	8.01	17.81	6.26	11.06	6.87	
		<i>PSEN2</i> +Family	10.16	15.16	4.27	11.19	7.28	
	tdp43	Index	11.11	12.92	3.41	10.11	6.31	0.61
		Family	20.13	23.27	6.15	19.27	16.69	
		<i>PSEN2</i>	15.02	23.74	8.10	16.61	10.37	
		DS	17.39	25.62	16.31	20.83	8.30	
		<i>PSEN2</i> +Family	17.60	23.27	7.55	17.37	11.19	
Microglia: MSTG								
Amyloid Analytes								
	Protein	Group	25th percentile	50th percentile	75th percentile	Mean	SD	P-value
	adam10	Index	58.98	62.53	26.90	45.26	14.27	0.96
		Family	129.86	221.11	96.48	155.46	75.72	
		<i>PSEN2</i>	51.89	78.74	36.16	67.54	42.70	
		DS	69.01	136.89	66.56	98.78	57.91	
		<i>PSEN2</i> +Family	72.92	119.22	73.50	96.84	47.55	
	amyloid_beta_1_40	Index	557.79	771.29	132.66	619.07	528.13	0.45
		Family	216.26	239.89	45.52	220.93	206.61	
		<i>PSEN2</i>	335.89	380.02	136.18	298.73	183.85	

		DS	358.82	465.85	173.00	336.90	159.75	
		<i>PSEN2</i> +Family	262.69	362.37	118.47	272.79	206.61	
	amyloid_beta_1_42	Index	379.16	461.08	54.16	399.66	358.74	0.17
		Family	702.94	1153.37	572.11	771.23	296.61	
		<i>PSEN2</i>	1212.05	1502.86	692.81	1133.27	613.31	
		DS	269.73	817.89	416.14	560.38	230.55	
		<i>PSEN2</i> +Family	1151.30	1487.87	661.58	1012.59	296.61	
	amyloid_precursor_protein	Index	132.53	155.28	26.18	130.29	103.07	0.50
		Family	652.89	1114.28	471.39	748.81	360.52	
		<i>PSEN2</i>	352.43	864.37	340.39	542.33	276.91	
		DS	342.97	685.51	317.01	476.64	293.47	
		<i>PSEN2</i> +Family	367.50	972.87	387.76	611.15	294.80	
	apoe	Index	78.85	114.29	23.31	87.83	70.35	0.75
		Family	579.41	720.82	185.43	558.38	418.63	
		<i>PSEN2</i>	505.63	688.68	238.63	510.14	319.24	
		DS	311.36	446.90	462.07	460.61	153.24	
		<i>PSEN2</i> +Family	538.94	720.82	217.96	526.22	384.00	
	bace1	Index	55.00	59.46	13.55	49.51	34.07	0.25
		Family	138.02	156.97	39.67	146.25	121.41	
		<i>PSEN2</i>	96.73	129.89	57.72	107.23	76.29	
		DS	73.22	111.66	46.67	91.59	61.84	
		<i>PSEN2</i> +Family	111.91	148.82	54.56	120.24	83.74	
	bag3	Index	114.83	130.02	27.52	107.15	76.61	0.94
		Family	419.94	607.69	221.25	417.65	209.41	
		<i>PSEN2</i>	182.48	269.48	110.24	219.67	134.68	
		DS	250.29	341.05	146.37	292.99	198.95	
		<i>PSEN2</i> +Family	228.72	417.75	177.44	285.67	164.85	
	ide	Index	67.78	114.62	29.85	80.51	59.14	0.94
		Family	155.37	219.24	48.17	173.56	135.07	
		<i>PSEN2</i>	139.29	257.00	102.55	162.74	88.09	
		DS	166.22	182.87	62.41	163.40	140.52	
		<i>PSEN2</i> +Family	155.37	246.90	86.69	166.35	103.44	

	neprilysin	Index	74.73	99.95	16.10	81.56	70.01	0.48
		Family	306.89	393.46	93.12	299.44	234.20	
		<i>PSEN2</i>	176.19	195.81	71.59	171.99	116.77	
		DS	151.61	203.85	89.77	178.29	114.51	
		<i>PSEN2</i> +Family	187.95	276.29	98.43	214.47	133.18	
	psen1	Index	230.32	406.28	107.21	282.93	212.20	0.53
		Family	641.24	700.04	185.66	645.95	491.91	
		<i>PSEN2</i>	606.27	782.91	224.97	605.27	446.57	
		DS	858.46	1109.10	471.90	744.30	317.60	
		<i>PSEN2</i> +Family	610.89	714.11	208.03	618.83	491.91	
Neuroinflammation Analytes								
	Protein	Group	25th percentile	50th percentile	75th percentile	Mean	SD	P-value
	c4b	Index	93.84	93.95	2.61	92.39	89.37	0.61
		Family	164.15	212.66	82.79	146.28	84.03	
		<i>PSEN2</i>	83.18	142.91	51.68	99.98	53.95	
		DS	142.96	166.78	44.15	130.40	95.07	
		<i>PSEN2</i> +Family	97.05	173.69	65.18	115.42	54.51	
	cd9	Index	274.52	374.17	64.78	300.45	252.65	0.83
		Family	1473.12	2396.97	863.35	1512.39	755.63	
		<i>PSEN2</i>	576.49	1060.47	526.44	835.82	525.12	
		DS	681.98	925.32	849.34	967.40	386.27	
		<i>PSEN2</i> +Family	634.77	1743.29	711.52	1061.34	534.10	
	cd11b	Index	549.89	714.24	127.45	575.81	463.32	0.26
		Family	1092.17	1235.18	153.18	1087.56	949.85	
		<i>PSEN2</i>	1116.40	1252.36	346.67	1053.79	872.51	
		DS	1190.89	1484.74	758.48	1412.15	892.79	
		<i>PSEN2</i> +Family	1116.40	1235.18	291.44	1065.05	914.79	
	cd11c	Index	329.83	366.78	34.71	331.34	297.40	0.24
		Family	454.31	541.87	161.75	456.72	304.66	

		<i>PSEN2</i>	405.97	542.13	193.41	436.28	314.25	
		DS	508.91	728.43	415.51	651.58	373.39	
		<i>PSEN2</i> +Family	405.97	541.87	178.88	443.09	304.66	
	cd163	Index	22.66	23.69	4.54	20.57	15.36	0.20
		Family	30.29	37.95	13.13	32.66	23.50	
		<i>PSEN2</i>	42.92	75.12	161.70	105.27	28.35	
		DS	22.36	26.75	9.73	22.11	15.65	
		<i>PSEN2</i> +Family	39.05	55.09	134.95	81.07	25.55	
	cd39	Index	131.81	143.12	16.88	128.28	109.91	0.93
		Family	356.14	442.73	116.72	337.46	245.82	
		<i>PSEN2</i>	208.81	358.95	145.48	257.19	154.28	
		DS	222.38	349.76	151.00	277.98	171.82	
		<i>PSEN2</i> +Family	240.11	442.73	138.63	283.95	165.80	
	cd40	Index	50.91	57.39	4.08	52.72	49.87	0.80
		Family	86.91	139.99	38.85	95.79	67.26	
		<i>PSEN2</i>	85.20	121.97	63.11	103.79	71.55	
		DS	104.66	136.78	45.31	107.70	79.33	
		<i>PSEN2</i> +Family	85.20	139.99	55.10	101.12	67.26	
	cd45	Index	199.16	271.78	55.67	211.10	162.36	0.30
		Family	380.38	506.94	132.60	392.55	327.41	
		<i>PSEN2</i>	389.22	504.53	152.59	398.33	315.35	
		DS	558.52	739.11	277.64	520.85	319.37	
		<i>PSEN2</i> +Family	389.22	506.94	142.28	396.40	327.41	
	cd68	Index	182.42	186.31	6.33	180.89	173.94	0.75
		Family	448.91	624.41	171.83	451.38	266.44	
		<i>PSEN2</i>	310.32	353.66	101.32	309.10	261.14	
		DS	332.43	553.97	264.86	394.95	199.03	
		<i>PSEN2</i> +Family	324.91	394.21	141.74	356.53	266.44	
	clec7a	Index	66.93	69.07	18.34	57.43	252.65	0.76
		Family	79.61	92.37	19.68	82.43	755.63	
		<i>PSEN2</i>	62.88	71.21	28.40	63.48	525.12	
		DS	74.13	96.08	28.65	73.43	386.27	

		<i>PSEN2</i> +Family	64.92	82.86	26.84	69.79	534.10	
	csf1r	Index	292.63	392.81	65.26	318.57	36.28	0.25
		Family	716.47	920.29	179.46	738.86	63.99	
		<i>PSEN2</i>	486.36	631.58	157.76	505.25	50.25	
		DS	726.51	772.32	190.80	693.61	57.47	
		<i>PSEN2</i> +Family	566.47	720.65	196.00	583.12	54.94	
	emp1	Index	76.19	89.86	20.10	72.11	50.28	0.58
		Family	261.05	348.03	111.06	272.30	177.63	
		<i>PSEN2</i>	208.83	273.07	83.56	207.66	151.15	
		DS	194.37	232.70	97.30	203.88	131.47	
		<i>PSEN2</i> +Family	208.83	317.43	95.54	229.21	156.72	
	gfap	Index	178.97	272.23	56.76	206.92	169.56	0.95
		Family	1113.30	1920.91	680.54	1217.89	581.70	
		<i>PSEN2</i>	884.01	1295.07	1239.43	1261.74	506.37	
		DS	976.97	1735.80	682.74	1216.75	684.97	
		<i>PSEN2</i> +Family	884.01	1507.41	1063.33	1247.12	581.70	
	gpnmb	Index	35.39	41.55	12.36	31.56	17.73	0.88
		Family	99.78	138.69	49.86	93.80	36.29	
		<i>PSEN2</i>	42.33	53.96	28.40	51.31	33.49	
		DS	44.58	79.66	44.46	68.61	37.54	
		<i>PSEN2</i> +Family	45.41	105.77	40.96	65.48	35.12	
	hla_dr	Index	59.94	60.31	8.71	55.10	45.04	0.33
		Family	309.38	452.05	162.82	312.56	169.76	
		<i>PSEN2</i>	177.47	367.00	162.19	253.09	138.90	
		DS	213.62	293.64	111.73	201.66	113.32	
		<i>PSEN2</i> +Family	191.53	452.05	160.16	272.91	139.76	
	iba1	Index	1796.92	2241.56	347.75	1864.86	1556.09	0.26
		Family	5386.20	7889.05	2293.47	5847.21	4464.47	
		<i>PSEN2</i>	3546.65	4592.67	2225.83	3900.25	2816.43	
		DS	5711.25	7190.42	4493.35	6791.21	4112.02	
		<i>PSEN2</i> +Family	4138.25	5774.61	2375.86	4549.24	3009.88	
	mertk	Index	198.75	264.04	38.05	220.10	197.52	0.17

		Family	625.72	696.53	133.81	594.83	515.12	
		<i>PSEN2</i>	521.28	586.55	181.24	462.75	300.45	
		DS	676.41	884.43	371.69	736.94	485.41	
		<i>PSEN2</i> +Family	538.30	621.41	175.00	506.78	376.94	
	p2rx7	Index	326.28	547.73	137.82	389.63	294.86	0.44
		Family	654.07	683.11	115.99	674.39	598.28	
		<i>PSEN2</i>	384.01	737.38	284.70	462.12	229.12	
		DS	362.84	484.17	231.98	429.61	257.30	
		<i>PSEN2</i> +Family	621.90	724.03	258.85	532.88	338.65	
	p2ry12	Index	883.18	1206.42	239.61	942.67	738.41	0.42
		Family	1124.93	1982.79	558.72	1354.04	953.49	
		<i>PSEN2</i>	1019.74	2273.26	899.67	1437.88	827.39	
		DS	1414.93	3370.63	2037.69	2146.20	424.61	
		<i>PSEN2</i> +Family	1019.74	2048.50	785.62	1409.93	869.91	
	s100b	Index	978.21	1567.28	356.97	1156.31	923.44	0.60
		Family	6409.86	9429.76	3840.80	6723.29	3169.69	
		<i>PSEN2</i>	5079.80	6794.06	3118.14	5771.74	3659.54	
		DS	6998.70	9553.35	3651.24	6966.35	4094.79	
		<i>PSEN2</i> +Family	5137.03	7750.62	3292.87	6088.92	3169.69	
	ubiquitin	Index	511.54	820.58	203.24	589.83	437.38	0.24
		Family	1155.98	1481.05	447.28	1149.83	746.77	
		<i>PSEN2</i>	899.68	1033.16	296.45	793.63	566.56	
		DS	787.83	861.17	223.65	716.57	450.76	
		<i>PSEN2</i> +Family	973.13	1114.03	381.52	912.36	661.52	
	vimentin	Index	3176.38	4219.23	684.07	3442.16	2930.87	0.87
		Family	12144.94	15630.97	4261.39	12036.65	9267.55	
		<i>PSEN2</i>	3516.20	6055.09	2183.92	4653.98	3172.95	
		DS	5240.08	7770.17	4066.73	6698.75	4462.09	
		<i>PSEN2</i> +Family	5719.76	9780.33	4609.95	7114.87	3425.94	
	tmem119	Index	404.79	501.40	62.31	430.37	384.93	0.09
		Family	658.82	790.57	238.56	638.75	477.46	
		<i>PSEN2</i>	907.26	1165.44	370.25	913.38	675.46	

		DS	1398.06	2112.10	864.66	1467.12	598.07	
		<i>PSEN2</i> +Family	787.98	992.10	350.98	821.83	600.21	
Tau Analytes								
	Protein	Group	25th percentile	50th percentile	75th percentile	Mean	SD	P-value
	phospho_tau_s199	Index	2974.26	3938.34	592.51	3257.38	2859.53	0.97
		Family	9831.80	16772.13	5707.90	10756.91	6107.34	
		<i>PSEN2</i>	3085.69	5860.47	1969.58	4007.72	2657.75	
		DS	4958.47	6322.55	4238.60	6365.58	3973.19	
		<i>PSEN2</i> +Family	4971.50	7207.42	4776.04	6257.45	2798.25	
	phospho_tau_s214	Index	450.89	656.43	147.12	492.88	371.31	0.70
		Family	1087.08	2264.22	981.34	1323.49	506.36	
		<i>PSEN2</i>	303.55	630.96	439.91	484.84	178.28	
		DS	633.32	988.69	426.99	623.94	190.27	
		<i>PSEN2</i> +Family	433.13	1182.45	757.60	764.39	217.16	
	phospho_tau_s396	Index	3655.14	5042.59	832.91	4082.73	3550.47	0.49
		Family	13323.25	21245.45	6818.54	14206.20	8863.77	
		<i>PSEN2</i>	3338.60	4282.58	1726.17	3397.97	1992.77	
		DS	3770.19	7616.61	2903.87	4874.45	2761.14	
		<i>PSEN2</i> +Family	4282.58	8863.77	6564.21	7000.71	2695.74	
	phospho_tau_s404	Index	489.45	554.04	72.68	484.15	408.97	0.10
		Family	3217.25	3781.16	1109.91	3113.55	2265.64	
		<i>PSEN2</i>	1904.73	2517.74	1062.55	2128.32	1400.07	
		DS	1429.53	2048.24	777.27	1611.38	958.33	
		<i>PSEN2</i> +Family	2230.52	3258.65	1149.46	2456.73	1566.37	
	phospho_tau_t231	Index	3112.66	4139.92	698.95	3352.60	2805.23	0.19
		Family	9655.25	10433.43	2126.87	9084.34	8252.48	
		<i>PSEN2</i>	5542.56	8610.42	4525.46	6429.50	3286.22	
		DS	5246.50	6794.05	2331.72	4928.06	3207.43	
		<i>PSEN2</i> +Family	6762.44	10161.76	4029.95	7314.45	4081.45	
	tau	Index	406.08	526.24	92.34	425.67	344.70	0.13

		Family	1094.79	1545.34	540.26	1233.24	787.49	
		<i>PSEN2</i>	1008.34	1305.96	491.77	951.53	676.48	
		DS	665.02	936.64	349.05	671.55	304.27	
		<i>PSEN2</i> +Family	1008.34	1331.01	510.89	1045.43	756.95	
Other analytes								
	Protein	Group	25th percentile	50th percentile	75th percentile	Mean	SD	P-value
	atg12	Index	25.89	34.80	6.97	27.25	21.05	0.62
		Family	138.44	161.04	38.48	131.32	111.30	
		<i>PSEN2</i>	69.70	100.32	60.01	91.94	56.67	
		DS	82.60	143.37	77.05	123.01	77.33	
		<i>PSEN2</i> +Family	86.97	156.59	55.95	105.07	62.67	
	atg5	Index	42.94	62.30	12.15	48.38	39.90	0.52
		Family	124.90	133.36	35.16	125.94	111.29	
		<i>PSEN2</i>	89.61	129.13	61.67	107.41	75.57	
		DS	95.10	139.33	47.84	99.54	70.38	
		<i>PSEN2</i> +Family	105.56	133.36	53.90	113.59	78.00	
	ctsd	Index	108.84	114.77	9.59	106.54	96.02	0.94
		Family	213.46	294.70	89.64	219.61	141.07	
		<i>PSEN2</i>	214.93	245.59	117.41	225.40	158.29	
		DS	209.69	274.23	129.00	227.22	167.77	
		<i>PSEN2</i> +Family	214.93	273.18	106.25	223.47	153.74	
	gba	Index	64.35	105.80	26.85	75.22	55.50	0.94
		Family	220.54	310.34	128.44	218.60	116.24	
		<i>PSEN2</i>	106.33	198.42	91.66	146.82	80.08	
		DS	187.75	220.03	85.65	166.96	77.48	
		<i>PSEN2</i> +Family	134.30	227.19	107.24	170.74	83.43	
	histone_h3	Index	11462.87	12394.94	746.94	11591.89	10917.86	0.59
		Family	13838.15	14033.99	3358.80	13252.73	12782.63	
		<i>PSEN2</i>	9481.33	10977.01	4023.95	8881.99	5811.64	
		DS	8272.86	12218.22	4850.26	9113.82	5564.30	

		<i>PSEN2</i> +Family	9936.02	13816.56	4276.72	10338.90	7328.03	
	hsc70	Index	249.14	293.57	44.16	249.32	205.24	0.19
		Family	504.40	548.21	208.63	404.34	203.36	
		<i>PSEN2</i>	989.88	1486.51	636.94	1041.92	482.24	
		DS	344.02	676.82	350.94	476.97	176.23	
		<i>PSEN2</i> +Family	584.94	1151.18	609.06	829.39	375.14	
	lamp2a	Index	12.35	20.68	6.68	13.50	7.47	0.16
		Family	47.20	77.14	25.71	53.38	37.31	
		<i>PSEN2</i>	38.48	52.16	16.38	41.06	34.42	
		DS	24.41	37.68	23.92	32.01	19.38	
		<i>PSEN2</i> +Family	39.54	63.52	20.09	45.17	34.53	
	p62	Index	43.45	50.47	12.62	39.96	25.96	0.69
		Family	204.98	476.31	281.99	303.81	80.99	
		<i>PSEN2</i>	79.37	121.78	52.49	100.46	63.23	
		DS	190.72	306.94	118.43	201.87	99.34	
		<i>PSEN2</i> +Family	86.13	185.07	186.81	168.25	71.26	
	tfeb	Index	367.58	532.88	117.02	402.40	306.73	0.82
		Family	1522.96	1735.08	408.77	1401.24	916.20	
		<i>PSEN2</i>	1320.03	1640.51	671.86	1274.23	717.05	
		DS	1377.16	1773.39	593.28	1386.13	998.78	
		<i>PSEN2</i> +Family	1331.81	1735.08	587.39	1316.56	907.11	
	lc3b	Index	42.15	42.84	0.97	41.97	40.92	0.68
		Family	1001.96	1600.94	683.83	983.91	346.25	
		<i>PSEN2</i>	381.94	539.08	342.49	432.13	198.50	
		DS	842.09	1051.37	572.99	745.89	241.82	
		<i>PSEN2</i> +Family	437.48	599.05	533.92	616.06	256.85	
	vps35	Index	98.37	142.20	53.10	92.36	36.51	0.79
		Family	134.49	152.97	35.73	136.13	107.66	
		<i>PSEN2</i>	192.86	325.44	136.94	219.24	88.81	
		DS	164.62	247.41	84.34	177.37	110.46	
		<i>PSEN2</i> +Family	170.22	315.00	118.89	191.53	100.26	
	phospho_tdp_43_s409_s410	Index	29.49	42.04	10.73	30.74	20.68	0.43

		Family	37.10	80.84	45.28	53.36	17.75	
		<i>PSEN2</i>	29.79	40.20	12.96	30.15	18.70	
		DS	26.49	40.88	13.20	31.12	23.40	
		<i>PSEN2</i> +Family	29.79	43.71	28.96	37.89	17.75	
	tdp43	Index	56.47	79.50	18.65	59.52	42.58	0.96
		Family	139.31	161.15	40.34	142.00	122.92	
		<i>PSEN2</i>	86.66	118.62	39.68	95.09	68.78	
		DS	114.77	134.12	52.37	109.62	56.28	
		<i>PSEN2</i> +Family	109.49	144.17	44.89	110.73	75.64	
Microglia: CN								
Amyloid Analytes								
	Protein	Group	25th percentile	50th percentile	75th percentile	Mean	SD	P-value
	adam10	Index	53.92	77.37	18.36	57.49	41.18	0.95
		Family	64.72	115.03	36.97	74.76	43.63	
		<i>PSEN2</i>	39.48	63.34	26.75	51.31	32.59	
		DS	52.74	82.06	31.20	56.88	27.45	
		<i>PSEN2</i> +Family	50.90	63.48	30.99	58.01	36.08	
	amyloid_beta_1_40	Index	263.47	293.37	24.68	267.09	244.42	0.50
		Family	437.28	479.80	158.26	371.03	215.48	
		<i>PSEN2</i>	214.27	357.39	123.41	286.90	207.23	
		DS	321.56	426.30	288.49	382.43	193.95	
		<i>PSEN2</i> +Family	269.66	432.28	135.79	310.94	212.54	
	amyloid_beta_1_42	Index	532.03	774.05	167.09	586.52	453.48	0.34
		Family	1288.68	2276.85	1140.71	1264.27	138.41	
		<i>PSEN2</i>	1719.83	2099.91	1017.54	1381.12	261.17	
		DS	834.97	1482.54	645.31	877.59	275.60	
		<i>PSEN2</i> +Family	1719.83	2130.17	1026.16	1347.73	261.17	
	amyloid_precursor_protein	Index	191.15	244.21	53.72	190.71	136.78	0.12
		Family	339.60	492.26	519.98	546.49	277.14	

		<i>PSEN2</i>	675.60	917.31	255.23	658.41	420.67	
		DS	370.26	485.22	202.22	434.02	309.57	
		<i>PSEN2</i> +Family	539.04	891.73	340.41	626.43	330.97	
	apoe	Index	674.38	680.95	32.10	659.23	622.36	0.01
		Family	857.34	897.99	271.36	732.35	600.08	
		<i>PSEN2</i>	674.72	1012.42	331.55	683.77	346.24	
		DS	257.47	477.09	182.64	315.74	149.20	
		<i>PSEN2</i> +Family	698.44	897.99	309.61	697.65	414.37	
	bace1	Index	41.02	48.62	5.68	42.39	37.52	0.92
		Family	129.33	168.06	66.52	149.10	109.27	
		<i>PSEN2</i>	101.55	125.17	40.57	98.99	56.38	
		DS	84.19	115.34	112.68	117.37	51.44	
		<i>PSEN2</i> +Family	109.27	143.88	52.88	113.31	86.80	
	bag3	Index	104.45	115.72	7.77	107.00	100.82	0.55
		Family	274.15	336.01	128.56	292.05	194.60	
		<i>PSEN2</i>	567.63	664.75	132.33	551.61	452.15	
		DS	520.51	743.24	234.23	533.99	377.59	
		<i>PSEN2</i> +Family	517.00	595.08	175.58	477.45	336.01	
	ide	Index	62.46	65.39	5.13	61.09	55.40	0.67
		Family	116.46	148.94	111.45	126.03	32.22	
		<i>PSEN2</i>	130.22	174.73	53.23	150.48	114.79	
		DS	109.61	170.18	66.07	134.97	104.01	
		<i>PSEN2</i> +Family	128.51	171.07	72.23	143.49	112.26	
	neprilysin	Index	157.86	165.92	22.29	149.23	123.92	0.03
		Family	271.27	284.36	134.31	315.23	251.52	
		<i>PSEN2</i>	387.60	459.29	118.57	375.71	256.14	
		DS	195.05	318.74	111.06	227.57	144.89	
		<i>PSEN2</i> +Family	368.73	447.75	123.02	358.43	256.14	
	psen1	Index	235.96	325.86	53.37	264.30	231.07	0.77
		Family	784.34	815.92	376.40	800.97	487.87	
		<i>PSEN2</i>	555.89	634.76	127.14	569.91	468.24	

		DS	590.11	816.10	519.32	698.76	345.59	
		<i>PSEN2</i> +Family	592.27	748.69	241.19	635.93	473.10	
Neuroinflammation Analytes								
	Protein	Group	25th percentile	50th percentile	75th percentile	Mean	SD	P-value
	c4b	Index	23.44	24.71	9.28	18.73	8.04	0.59
		Family	65.06	170.64	58.95	96.51	58.61	
		<i>PSEN2</i>	84.04	107.98	31.58	77.25	49.19	
		DS	71.50	130.06	73.37	98.65	53.71	
		<i>PSEN2</i> +Family	78.18	107.98	40.58	82.75	49.22	
	cd9	Index	375.57	513.17	109.27	395.36	297.33	0.09
		Family	955.65	1019.64	790.37	1147.85	635.05	
		<i>PSEN2</i>	1423.22	2346.65	733.29	1752.49	1161.93	
		DS	635.45	1506.21	570.12	959.79	533.18	
		<i>PSEN2</i> +Family	1284.83	2169.83	781.61	1579.73	1016.15	
	cd11b	Index	667.28	740.17	155.67	616.35	441.59	0.00
		Family	1297.38	1702.50	829.15	1543.91	971.51	
		<i>PSEN2</i>	1460.02	1637.62	331.89	1426.85	1218.21	
		DS	856.86	1150.44	401.39	980.83	767.21	
		<i>PSEN2</i> +Family	1392.47	1637.62	501.91	1460.30	1218.21	
	cd11c	Index	372.19	475.92	73.37	394.10	334.17	0.27
		Family	413.59	479.27	236.97	453.98	305.16	
		<i>PSEN2</i>	405.91	430.63	108.62	364.08	278.44	
		DS	435.43	549.27	512.53	577.94	364.68	
		<i>PSEN2</i> +Family	405.91	438.77	155.02	389.77	305.16	
	cd163	Index	5.61	18.24	7.87	9.21	3.80	0.67
		Family	17.14	29.20	57.25	39.76	10.65	
		<i>PSEN2</i>	29.50	41.78	17.91	30.96	16.06	
		DS	19.16	41.29	21.87	28.70	10.73	
		<i>PSEN2</i> +Family	28.51	41.60	32.57	33.47	14.59	

	cd39	Index	198.31	253.35	38.78	210.06	178.52	0.26
		Family	180.59	211.52	182.89	221.50	138.47	
		<i>PSEN2</i>	213.79	231.93	106.58	214.08	117.00	
		DS	140.97	192.10	75.09	166.14	119.89	
		<i>PSEN2</i> +Family	201.22	229.35	127.77	216.20	138.47	
	cd40	Index	41.88	55.82	12.49	42.87	30.90	0.62
		Family	79.84	99.25	37.83	88.05	62.78	
		<i>PSEN2</i>	81.11	112.56	32.87	85.94	60.30	
		DS	65.82	107.14	103.83	99.92	49.45	
		<i>PSEN2</i> +Family	81.11	99.25	33.39	86.54	62.78	
	cd45	Index	167.70	196.94	32.25	165.72	132.53	0.98
		Family	376.23	488.55	551.20	579.01	310.79	
		<i>PSEN2</i>	411.11	647.85	233.40	474.44	336.98	
		DS	459.75	541.09	255.42	501.19	347.19	
		<i>PSEN2</i> +Family	388.00	488.55	341.22	504.32	336.98	
	cd68	Index	202.14	269.94	53.50	212.14	164.35	0.43
		Family	303.83	374.52	369.37	425.47	250.46	
		<i>PSEN2</i>	359.73	472.49	170.08	409.36	303.48	
		DS	291.27	430.00	193.08	347.28	202.57	
		<i>PSEN2</i> +Family	326.48	421.69	233.27	413.96	301.93	
	clec7a	Index	27.35	27.80	5.23	24.56	297.33	0.36
		Family	69.54	90.79	94.88	90.32	635.05	
		<i>PSEN2</i>	81.97	96.21	26.87	86.00	1161.93	
		DS	78.43	186.41	65.47	111.18	533.18	
		<i>PSEN2</i> +Family	74.07	94.22	52.54	87.24	1016.15	
	csf1r	Index	249.29	354.20	67.13	277.55	18.53	0.53
		Family	582.40	831.32	422.20	640.04	22.06	
		<i>PSEN2</i>	773.71	1039.54	322.64	827.35	68.80	
		DS	810.52	1255.92	567.65	922.22	62.24	
		<i>PSEN2</i> +Family	739.38	881.44	353.48	773.83	66.77	
	emp1	Index	121.79	125.08	1.96	122.82	121.58	0.16
		Family	235.14	278.38	330.57	358.79	196.68	

		<i>PSEN2</i>	313.02	360.14	71.27	308.20	245.22	
		DS	189.76	332.93	122.59	251.34	159.32	
		<i>PSEN2</i> +Family	284.91	323.95	177.26	322.65	244.19	
	gfap	Index	240.69	257.82	32.09	231.40	195.69	0.15
		Family	689.47	783.45	614.80	854.49	565.33	
		<i>PSEN2</i>	3926.73	4638.03	2115.72	3688.32	1728.10	
		DS	1597.31	1968.97	835.14	1581.56	852.70	
		<i>PSEN2</i> +Family	2563.91	4226.69	2224.57	2878.66	783.45	
	gpnmb	Index	10.36	14.04	2.85	10.94	8.42	0.35
		Family	48.96	69.16	38.69	55.57	26.89	
		<i>PSEN2</i>	59.53	72.72	25.85	52.46	33.49	
		DS	32.43	59.29	26.48	42.00	22.57	
		<i>PSEN2</i> +Family	58.01	69.16	29.05	53.35	33.49	
	hla_dr	Index	235.72	252.35	26.73	229.37	200.03	0.80
		Family	403.27	804.97	806.13	755.23	296.58	
		<i>PSEN2</i>	625.39	920.21	358.52	638.15	327.48	
		DS	415.87	1068.35	476.97	610.02	210.42	
		<i>PSEN2</i> +Family	483.66	818.46	505.35	671.60	322.89	
	iba1	Index	2353.90	2686.65	494.97	2251.13	1712.84	0.97
		Family	4825.07	5134.41	5632.13	6701.17	4369.77	
		<i>PSEN2</i>	6373.13	7236.92	1684.91	5855.52	4131.80	
		DS	5280.95	6561.39	3140.79	6142.03	4263.78	
		<i>PSEN2</i> +Family	5134.41	7175.14	3173.44	6097.13	4369.77	
	merlk	Index	211.08	248.24	38.24	210.36	171.76	0.23
		Family	635.81	827.00	980.66	972.14	469.63	
		<i>PSEN2</i>	491.37	658.18	161.71	533.69	441.10	
		DS	870.81	1182.08	919.53	1047.11	535.88	
		<i>PSEN2</i> +Family	533.77	691.88	547.65	658.96	454.55	
	p2rx7	Index	299.71	308.84	8.91	299.86	291.03	0.31
		Family	385.50	528.44	286.31	464.76	289.04	
		<i>PSEN2</i>	225.25	451.29	198.22	303.52	162.90	
		DS	264.40	378.05	119.93	265.15	174.58	

		<i>PSEN2</i> +Family	289.04	476.86	231.45	349.59	206.16	
	p2ry12	Index	1226.89	1419.32	162.63	1247.40	1096.01	0.15
		Family	3127.41	3944.96	1501.70	2681.00	903.45	
		<i>PSEN2</i>	2386.76	2860.41	1103.94	2367.51	1328.28	
		DS	1217.17	2353.05	1156.54	1623.02	788.04	
		<i>PSEN2</i> +Family	2403.68	3203.89	1199.13	2457.08	1328.28	
	s100b	Index	1619.04	1958.92	358.61	1606.66	1242.02	0.03
		Family	7268.56	8705.77	3435.92	6852.62	4083.43	
		<i>PSEN2</i>	7679.16	9288.23	2626.90	7569.88	6305.09	
		DS	4974.14	5990.39	2078.71	4669.44	2820.50	
		<i>PSEN2</i> +Family	7679.16	8967.98	2809.28	7364.95	6200.63	
	ubiquitin	Index	349.70	476.76	87.55	378.45	308.90	0.12
		Family	910.35	1149.41	452.92	793.03	318.64	
		<i>PSEN2</i>	770.09	1096.13	305.12	848.13	610.44	
		DS	516.58	701.03	281.59	580.00	472.66	
		<i>PSEN2</i> +Family	773.80	1096.13	342.21	832.39	610.44	
	vimentin	Index	395.45	443.47	88.83	370.08	271.32	0.23
		Family	672.26	913.94	317.35	731.33	470.67	
		<i>PSEN2</i>	714.04	822.87	279.29	701.13	520.19	
		DS	710.20	2533.51	1579.54	1518.28	358.90	
		<i>PSEN2</i> +Family	714.04	822.87	282.80	709.76	520.19	
	tmem119	Index	466.83	546.58	53.46	486.14	445.03	0.03
		Family	1172.02	1586.82	563.13	1196.10	781.61	
		<i>PSEN2</i>	1287.03	1464.94	454.28	1347.61	989.10	
		DS	747.19	1170.52	361.37	898.25	646.07	
		<i>PSEN2</i> +Family	1287.03	1464.94	478.18	1304.32	963.43	
Tau Analytes								
	Protein	Group	25th percentile	50th percentile	75th percentile	Mean	SD	P-value
	phospho_tau_s199	Index	381.73	580.00	162.78	406.32	257.24	0.28
		Family	760.16	919.06	492.30	843.48	548.14	

		<i>PSEN2</i>	400.66	612.18	212.63	501.59	356.56	
		DS	710.60	1598.59	1284.57	1206.39	283.50	
		<i>PSEN2</i> +Family	547.74	745.61	342.47	599.28	358.61	
	phospho_tau_s214	Index	34.62	36.19	6.95	31.42	23.45	0.35
		Family	63.07	136.73	125.48	118.83	55.20	
		<i>PSEN2</i>	70.34	94.55	24.64	72.45	50.40	
		DS	52.88	234.55	221.96	173.94	39.94	
		<i>PSEN2</i> +Family	69.60	94.55	69.44	85.70	55.20	
	phospho_tau_s396	Index	169.97	195.10	17.06	175.87	162.54	0.14
		Family	461.67	721.47	287.56	574.20	373.22	
		<i>PSEN2</i>	294.04	352.71	131.62	337.55	248.02	
		DS	506.17	2257.19	1090.62	1085.92	358.07	
		<i>PSEN2</i> +Family	340.63	528.80	211.66	405.16	280.84	
	phospho_tau_s404	Index	280.66	366.53	50.85	307.86	276.41	0.54
		Family	840.74	1157.46	414.18	762.58	275.40	
		<i>PSEN2</i>	632.52	714.04	191.61	566.58	447.10	
		DS	507.11	1532.40	774.04	819.79	196.13	
		<i>PSEN2</i> +Family	661.70	729.60	277.16	622.58	447.10	
	phospho_tau_t231	Index	601.33	669.80	69.10	600.91	531.60	0.43
		Family	1103.44	1378.20	550.01	1115.66	599.10	
		<i>PSEN2</i>	997.57	1234.54	312.03	1039.83	815.04	
		DS	914.93	2050.49	1302.81	1489.33	499.35	
		<i>PSEN2</i> +Family	997.57	1234.54	380.81	1061.49	815.04	
	tau	Index	324.15	423.93	81.13	337.11	263.23	0.08
		Family	713.51	984.49	441.43	653.44	196.05	
		<i>PSEN2</i>	632.05	776.34	225.23	656.49	466.74	
		DS	336.67	605.74	230.55	418.17	282.48	
		<i>PSEN2</i> +Family	632.05	925.13	290.22	655.62	464.73	
Other analytes								
	Protein	Group	25th percentile	50th percentile	75th percentile	Mean	SD	P-value

	atg12	Index	36.12	66.64	19.59	44.28	30.09	0.54
		Family	103.75	109.28	276.69	197.82	73.01	
		<i>PSEN2</i>	141.87	178.40	40.46	152.88	127.17	
		DS	124.50	147.12	99.88	142.51	74.21	
		<i>PSEN2</i> +Family	132.65	176.79	143.94	165.72	109.28	
	atg5	Index	31.56	33.96	3.92	30.60	26.29	0.44
		Family	132.53	146.49	62.69	155.15	119.30	
		<i>PSEN2</i>	191.48	223.93	52.50	178.66	126.04	
		DS	127.06	152.68	94.20	144.41	89.55	
		<i>PSEN2</i> +Family	156.44	209.90	55.05	171.95	126.04	
	ctsd	Index	53.28	113.19	38.86	68.94	40.35	0.10
		Family	117.45	124.79	101.47	156.24	107.98	
		<i>PSEN2</i>	165.15	200.36	46.49	156.63	121.69	
		DS	194.48	226.27	96.71	206.93	153.57	
		<i>PSEN2</i> +Family	128.71	182.97	63.93	156.52	114.41	
	gba	Index	77.73	129.06	32.81	91.60	68.00	0.85
		Family	80.91	113.09	119.56	118.28	47.37	
		<i>PSEN2</i>	137.26	164.08	43.05	129.79	101.90	
		DS	125.02	179.01	51.20	131.14	83.10	
		<i>PSEN2</i> +Family	125.56	151.16	69.99	126.50	99.21	
	histone_h3	Index	13007.58	13782.17	2568.83	11928.72	8996.40	0.43
		Family	9742.04	12283.75	15458.42	15393.32	7511.04	
		<i>PSEN2</i>	8337.71	10010.16	8652.62	11799.55	7047.68	
		DS	5937.42	9815.82	8299.89	9139.50	3578.50	
		<i>PSEN2</i> +Family	8955.62	10396.65	10719.88	12826.34	7426.47	
	hsc70	Index	347.36	402.22	39.40	358.46	325.79	0.11
		Family	393.18	475.60	338.21	506.76	319.61	
		<i>PSEN2</i>	1237.70	2621.29	1206.86	1750.43	790.28	
		DS	712.35	861.45	320.79	602.17	290.37	
		<i>PSEN2</i> +Family	876.80	2480.88	1174.56	1395.10	491.93	
	lamp2a	Index	84.06	109.47	15.18	91.97	82.39	0.12

		Family	43.23	67.39	80.00	75.91	35.98	
		<i>PSEN2</i>	59.12	64.31	21.72	55.39	37.43	
		DS	47.68	53.89	19.87	46.57	29.44	
		<i>PSEN2</i> +Family	47.84	64.31	44.95	61.25	37.43	
	p62	Index	87.21	118.55	34.47	85.16	49.71	0.79
		Family	72.62	111.36	88.13	108.65	65.44	
		<i>PSEN2</i>	70.57	92.36	26.71	74.70	55.83	
		DS	81.43	112.39	67.74	92.63	39.93	
		<i>PSEN2</i> +Family	70.57	92.36	51.85	84.40	59.71	
	tfeb	Index	415.87	552.20	81.85	457.87	405.54	0.42
		Family	1281.06	1680.29	735.39	1479.00	1032.38	
		<i>PSEN2</i>	1614.15	2331.04	646.87	1819.52	1207.13	
		DS	1364.87	1871.24	668.19	1468.79	950.14	
		<i>PSEN2</i> +Family	1445.55	2193.24	673.02	1722.23	1179.18	
	lc3b	Index	156.82	211.55	39.49	167.75	134.87	0.86
		Family	380.90	814.29	683.47	692.45	285.80	
		<i>PSEN2</i>	559.97	1412.34	494.65	870.57	493.24	
		DS	567.07	1343.20	630.11	764.45	273.23	
		<i>PSEN2</i> +Family	558.91	1245.62	543.01	819.68	403.25	
	vps35	Index	70.14	91.06	21.78	69.57	47.52	0.69
		Family	236.31	332.71	258.15	332.15	184.55	
		<i>PSEN2</i>	334.27	564.10	242.92	399.34	181.70	
		DS	414.53	606.32	261.53	426.57	227.74	
		<i>PSEN2</i> +Family	278.48	498.05	242.77	380.15	184.55	
	phospho_tdp_43_s409_s410	Index	21.77	22.67	8.98	17.05	6.69	0.95
		Family	28.99	35.30	35.00	41.10	26.34	
		<i>PSEN2</i>	37.20	49.35	14.50	36.97	24.61	
		DS	33.01	47.35	22.90	38.68	21.82	
		<i>PSEN2</i> +Family	33.51	47.48	21.38	38.15	26.34	
	tdp43	Index	41.99	44.53	3.52	41.36	37.56	0.46
		Family	71.30	111.02	39.83	77.75	64.17	
		<i>PSEN2</i>	63.35	88.42	25.81	66.36	45.76	

		DS	66.25	79.26	112.08	101.74	38.26	
		<i>PSEN2</i> +Family	64.17	88.42	29.85	69.61	48.96	