

Calcium-ion imaging

CTRL	24 h	48 h	
	1	2	2
	2	2	2
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Descriptive Statistics

	Column 1		
	CTRL	24 h	48 h
Valid	141	82	81
Missing	0	0	0
Mean	6.801	9.220	3.988
Std. Deviation	4.163	6.775	2.046
Minimum	1.000	2.000	2.000
Maximum	20.00	26.00	10.00

ANOVA

ANOVA - Column 1

Cases	Sum of Squares	df	Mean Square	F	p
Column 2	1,118	2	558.94	25.97	3.954×10 ⁻¹¹
Residuals	6,479	301	21.53		

Note. Type III Sum of Squares

Post Hoc Tests

Standard (HSD)

Post Hoc

Comparisons

		Mean Difference	SE	df	t	p _{Tukey}
CTRL	24 h	-2.418	0.644	301	-3.753	6.132×10 ⁻⁴
	48 h	2.814	0.647	301	4.350	5.537×10 ⁻⁵
24 h	48 h	5.232	0.727	301	7.198	1.557×10 ⁻¹¹

Microglia ramification index - Superficial layer

CTRL	24 h	48 h
5,084574	2,712769	3,10075
5,1163	2,982718	3,647472
6,236196	3,012038	3,6705
6,691712	3,063755	3,98279
7,241195	3,443074	4,062486
7,321032	3,551383	4,092936
7,628488	3,653921	4,111278
7,676118	3,666463	4,531613
8,382576	3,742161	4,685863
8,38936	3,89364	4,703273
8,459319	4,111607	4,712684
8,915816	4,155647	4,801973
8,973992	4,155647	4,812587
9,031686	4,216157	5,190404
9,077355	4,355885	5,239999
9,077355	4,356661	5,257326
9,198234	4,508377	5,294459
9,232841	4,512492	5,49732
9,312455	4,572737	5,589597
9,427983	4,595424	5,645425
9,466446	4,620032	5,670053

9,704743	4,698402	5,837538
9,826501	4,934624	5,847579
9,850463	4,985678	5,881968
9,936629	5,010413	5,90748
9,946229	5,047909	5,979346
9,961262	5,240245	5,993037
10,119417	5,329791	6,317148
10,312383	5,367951	6,420368
10,367217	5,532918	6,581722
10,505437	5,53336	6,649038
10,574934	5,711847	6,658002
10,814605	5,719573	6,722787
10,858199	5,724751	6,752289
10,937711	5,751051	6,805161
10,948517	5,861196	6,85057
11,10391	5,910917	6,860131
11,127122	6,117269	7,020526
11,252273	6,141842	7,11582
11,273993	6,165056	7,134142
11,310866	6,191438	7,14513
11,327574	6,220346	7,515128
11,372519	6,392423	7,599149
11,444913	6,414812	7,709384
11,446314	6,506605	7,709384
11,474732	6,516696	7,787426
11,524341	6,526713	7,974353
11,538567	6,532547	7,990364
11,552976	6,698388	8,007652
11,559301	6,766278	8,055592
11,645357	6,790623	8,109173
11,716038	6,995449	8,155122
11,789544	7,02854	8,217674
11,824411	7,11258	8,240349

11,901869	7,26075	8,34605
11,945057	7,266067	8,431458
11,960735	7,369252	8,524686
12,248525	7,51213	8,556977
12,431466	7,567552	8,621685
12,539654	7,647004	8,686815
12,62134	7,676852	8,742958
12,685966	7,689782	9,26118
12,698449	7,749299	9,323481
12,908043	7,778045	9,405166
12,957596	7,803563	9,420085
13,011746	7,921359	9,72451
13,033845	8,029607	9,728473
13,155727	8,049381	10,03621
13,168199	8,143334	10,04121
13,190981	8,38699	10,08576
13,207179	8,484785	10,13669
13,237758	8,530907	10,20083
13,41156	8,539507	10,27165
13,556398	8,557555	10,35386
13,61566	8,61168	10,50521
13,720473	8,676525	10,51107
13,723455	8,697166	10,56733
13,74822	8,714092	10,64599
13,827637	8,774493	10,72216
13,924802	8,831924	10,81623
13,958622	8,858437	10,88184
13,992808	9,048794	10,99081
14,05978	9,067711	11,45234
14,084399	9,079542	11,56571
14,128444	9,585109	11,73667
14,386725	9,644149	11,90172
14,475542	9,86101	11,94099

14,490735	9,869424	12,02182
14,557163	9,96876	12,02486
14,933076	10,43458	12,02523
15,148661	10,47245	12,18795
15,262873	10,66423	12,23796
15,502185	10,7586	12,38185
15,817656	10,82337	12,48002
15,88425	10,87409	12,49266
15,949802	10,90176	12,52441
16,142821	10,95399	12,63468
16,194667	11,15312	12,64351
16,329714	11,36477	12,68844
16,345961	11,44521	12,68874
16,388635	11,58946	12,75458
16,458538	11,6898	12,7558
16,910163	11,77382	12,89104
17,104571	11,91606	13,4697
17,760022	12,01824	13,84452
	12,12064	13,87836
	12,19335	14,20495
	12,29065	14,25193
	12,77185	14,28533
	12,90785	14,35133
	13,13975	15,18588
	13,38931	15,59352
	13,52792	15,95606
	13,58465	16,16091
	13,66374	16,59275
	13,69488	16,67005
	13,73648	16,76242
	14,48018	17,37244
	14,85314	18,09615
	15,25453	18,58444

Descriptive Statistics

	Column 1		
	CTRL	24 h	48 h
Valid	105	120	120
Missing	0	0	0
Median	11.79	7.662	8.715
Mean	11.96	7.959	9.406
Std. Deviation	2.725	3.118	3.636
Minimum	5.085	2.713	3.101
Maximum	17.76	15.25	18.58

ANOVA

ANOVA - Column 1

Cases	Sum of Squares	df	Mean Square	F	p
Column 2	909.4	2	454.70	44.40	7.193×10 ⁻¹⁸
Residuals	3,502.4	342	10.24		

Note. Type III Sum of Squares

Post Hoc Tests

Standard (HSD)

Post Hoc

Comparisons		Mean Difference	SE	df	t	p _{Tukey}
CTRL	24 h	3.999	0.428	342	9.352	0.000
	48 h	2.552	0.428	342	5.968	1.796×10 ⁻⁸
24 h	48 h	-1.447	0.413	342	-3.502	1.513×10 ⁻³

Microglia ramification index - Deep layer

CTRL	24 h	48 h
7,881562	5,229555	5,562474
8,770692	5,933715	5,607189
9,142547	6,73979	5,757696
9,197006	6,916412	5,765177
9,609094	7,04625	5,93042
9,63604	7,062225	5,933002
9,647412	7,472271	6,096245
9,787931	7,605365	6,344326
10,038643	7,769701	6,517658
10,112697	7,830318	6,539291
10,296075	7,987907	6,778644
10,328162	8,092048	6,800037
10,338853	8,134674	6,961643
10,348285	8,150331	7,023562
11,026707	8,250615	7,148176
11,200174	8,344609	7,186178
11,31287	8,384687	7,315807
11,314888	8,405883	7,357912
11,366262	8,539386	7,382285
11,416379	8,546983	7,428084
11,584374	8,549008	7,483356
11,598493	8,801388	7,701524
11,631454	8,839152	7,766318
11,746421	8,981227	7,994805
11,860021	9,014267	7,997864
11,897109	9,019835	8,00713
11,913135	9,220191	8,146885
11,940098	9,416707	8,237715
11,95871	9,476867	8,328348
12,139345	9,547005	8,396759
12,204822	9,682858	8,525532
12,216464	9,688206	8,63517

12,257686	9,69949	8,664391
12,266792	9,712116	8,744578
12,281404	9,749355	8,78361
12,303156	9,768776	8,839059
12,307942	9,812767	8,84793
12,334352	9,820799	8,858613
12,451866	9,840975	8,957572
12,610695	9,859412	8,972268
12,631646	9,882319	9,0597
12,780808	9,890456	9,09194
12,800752	9,897137	9,091946
12,807735	9,994178	9,222181
12,820761	10,00898	9,228833
12,9002	10,02792	9,45455
12,923445	10,06134	9,467559
12,940462	10,15182	9,521763
12,987614	10,20686	9,559271
13,031339	10,37312	9,746143
13,032396	10,40083	9,776565
13,04074	10,42606	9,903608
13,052512	10,44135	9,987697
13,053138	10,44275	10,03374
13,092788	10,4518	10,06999
13,282512	10,5141	10,08904
13,290804	10,53072	10,16659
13,332056	10,57282	10,17565
13,357328	10,59589	10,19482
13,432245	10,68325	10,2956
13,61202	10,77678	10,30185
13,623033	10,78658	10,33451
13,624593	10,79506	10,34646
13,635551	10,81723	10,39826
13,731422	10,82873	10,4276

13,742255	10,83082	10,706
13,819003	10,94355	10,7131
13,877321	10,99867	11,38517
13,921528	11,00273	11,42198
13,996037	11,02604	11,5744
13,99771	11,07385	11,64996
14,051305	11,12413	11,72455
14,148138	11,21539	11,77147
14,174487	11,26297	11,82424
14,192058	11,33813	11,83808
14,212187	11,51765	12,05616
14,24064	11,52116	12,11367
14,255808	11,53316	12,15634
14,469058	11,58142	12,16846
14,594069	11,58877	12,42263
14,609137	11,59906	12,43295
14,902926	11,619	12,45139
15,161726	11,63458	12,6769
15,26215	11,63976	12,70234
15,277316	11,7717	12,70597
15,292717	11,83884	12,85797
15,302043	12,01432	12,96356
15,353084	12,09158	13,04856
15,374425	12,10776	13,09817
15,444765	12,11302	13,10246
15,491465	12,16462	13,23775
15,499766	12,1958	13,36754
15,576113	12,24732	13,38888
15,693187	12,27523	13,43986
15,897947	12,54092	13,50282
15,905599	12,66892	13,60215
15,99554	12,68199	13,60215
16,284321	12,71324	13,60311

16,351999	12,96017	13,67272
16,516021	12,98366	13,7349
16,911735	13,11628	13,75228
17,020345	13,99553	13,79174
17,468487	14,21643	13,81703
17,864834	14,4943	13,86877
19,754453	14,52631	13,90496
	14,54777	13,94898
	14,66186	14,11638
	14,72309	14,16897
	14,7579	14,18745
	14,79917	14,27314
	15,59333	14,41333
	15,67266	14,5005
	16,16809	14,62681
	16,25195	14,77713
	16,27009	14,84091
	18,32162	14,94002
	18,72298	15,29203
	18,84101	15,36178
	19,28974	15,41817
	20,93769	20,19271

Descriptive Statistics

	Column 1		
	CTRL	24 h	48 h
Valid	105	116	112
Missing	0	0	0
Median	13.05	10.73	10.30
Mean	13.19	11.05	10.62
Std. Deviation	2.137	2.467	2.560
Minimum	7.882	6.740	5.930

Maximum	19.75	18.84	14.94
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ANOVA

ANOVA - Column 1

Cases	Sum of Squares	df	Mean Square	F	p
Column 2	408.9	2	204.463	35.48	2.576×10 ⁻¹²
Residuals	1,901.9	330	5.763		

Note. Type III Sum of Squares

Post Hoc Tests

Standard (HSD)

Comparisons		Mean Difference	SE	df	t	p _{Tukey}
CTRL	24 h	2.144	0.323	330	6.629	2.543×10 ⁻⁸
	48 h	2.572	0.326	330	7.888	1.135×10 ⁻¹¹
24 h	48 h	0.429	0.318	330	1.348	3.762×10 ⁻¹

Microglia treelength - Superficial layer

CTRL	24 h	48 h
141,399505	24,7689	35,48299
146,034108	37,27206	40,56362
188,337637	38,94243	41,82869
189,053781	40,94856	46,83979
210,723917	43,38035	47,19592
222,821779	46,70071	52,59195
235,926922	50,80287	63,66216
241,916498	51,5643	73,09081
246,206904	52,25619	74,5933

277,509758	68,60372	79,6044
278,398331	69,72128	80,98817
283,024497	71,89528	81,86831
288,490066	77,1726	90,03189
292,444711	77,76615	91,12908
292,853899	82,25324	95,21087
302,466908	83,46914	99,38257
309,078834	84,44761	100,0337
309,770723	85,49563	102,1789
322,555925	85,94555	108,1889
331,415944	85,99927	112,3894
337,147734	85,99927	114,0106
339,174228	89,67576	114,4447
341,110817	92,22626	114,8946
342,63367	94,80557	118,3789
345,184172	101,1716	119,9306
348,594442	101,9573	120,7685
353,019238	103,4152	121,2856
354,252147	108,545	125,9897
355,976231	109,1673	131,0927
359,832535	110,502	134,272
360,848253	115,9675	137,6127
361,240568	116,8765	141,8828
364,082207	117,9736	143,7906
364,675753	119,5457	146,8243
364,675753	121,0074	146,8243
365,130223	121,1465	152,3594
365,6423	121,2448	152,6172
365,842479	127,1157	154,2181
367,639991	127,2751	156,1055
377,690991	129,0727	159,5853
383,95872	129,4288	159,9007
391,499953	133,3919	165,3171

391,577928	133,6988	166,6025
396,457333	134,3212	167,8676
397,113034	137,1091	178,9378
402,263209	138,9965	180,0638
408,510571	141,6166	185,0257
409,182092	143,1478	191,4206
409,390707	147,2992	195,928
411,163304	148,4455	197,1032
418,9177	148,5151	197,7459
418,966871	149,8005	200,0098
438,249837	158,0828	209,1519
445,238259	158,1116	212,0873
449,991571	158,1811	213,0658
450,35963	161,2557	219,9847
458,950884	162,0747	221,7738
459,530494	162,185	222,3469
459,886622	163,9537	227,0426
462,445561	165,8903	227,0715
465,35219	170,2994	228,2317
470,371725	176,1211	231,4602
474,89955	179,9163	235,2554
478,94799	181,6358	273,3827
485,396584	185,5989	292,1462
486,533847	189,0295	297,9187
491,930535	192,0141	304,1253
495,205618	193,832	308,3869
495,447584	195,8789	334,2327
497,019608	198,8143	340,0544
498,591633	202,2488	341,2211
509,809358	202,5151	345,9252
513,653731	202,91	358,4934
517,223446	204,2103	361,8341
517,944138	212,9878	365,2981

520,294461	214,7074	367,4637
521,763596	217,9498	370,0226
524,81385	226,3999	371,3796
527,456262	240,9584	372,0038
531,871809	242,1743	373,9162
537,963616	242,817	386,4266
540,321982	246,6122	388,8584
544,25626	248,4505	392,4293
552,833579	257,2911	399,0386
557,410575	260,1418	400,5844
563,281442	281,9765	404,2156
564,496679	284,0865	415,0326
574,756953	299,5399	422,4959
574,89603	317,5782	422,9096
590,293889	319,9201	423,069
594,588184	321,058	432,4709
606,186953	335,6656	442,6386
615,459654	337,8396	447,9159
620,458821	344,4182	453,411
623,438878	344,9808	454,1345
638,721523	348,4554	456,6442
643,192793	352,8459	474,9284
646,638592	354,8502	475,6118
652,309939	359,7223	489,4784
663,142733	370,2888	490,8531
671,940597	372,9377	490,9356
682,361662	376,552	492,7088
721,977495	386,9026	493,448
729,787614	397,7677	497,1095
756,618246	404,1015	499,7826
	405,5915	527,6548
	428,5922	568,7221
	454,7856	572,9226

	464,2702	579,3305
	465,5404	586,8836
	471,8166	590,2114
	483,439	593,4011
	493,6743	679,8509
	505,5506	690,872
	519,7536	694,7655
	538,2056	703,019
	543,7323	712,0922
	570,2003	714,5725
	582,7527	865,6584
	662,1983	911,2044

Descriptive Statistics

	Column 1		
	CTRL	24 h	48 h
Valid	105	120	120
Missing	0	0	0
Median	438.2	168.1	227.7
Mean	440.0	218.6	298.1
Std. Deviation	134.3	144.7	196.4
Minimum	141.4	24.77	35.48
Maximum	756.6	662.2	911.2

ANOVA

ANOVA - Column 1

Cases	Sum of Squares	df	Mean Square	F	p
Column 2	2.789×10 ⁺⁶	2	1.394×10 ⁺⁶	53.23	7.482×10 ⁻²¹
Residuals	8.958×10 ⁺⁶	342	26,194		

Note. Type III Sum of Squares

Post Hoc Tests

Standard (HSD)

Post Hoc Comparisons - Column 2

		Mean Difference	SE	df	t	p _{Tukey}
CTRL	24 h	221.36	21.63	342	10.235	0.000
	48 h	141.89	21.63	342	6.561	5.940×10 ⁻¹⁰
24 h	48 h	-79.47	20.89	342	-3.804	4.948×10 ⁻⁴

Microglia treelength - Deep layer

CTRL	24 h	48 h
142,158068	101,7448	85,49563
201,328051	112,4589	98,57197
204,461689	119,5253	104,0375
207,264492	122,5794	111,0056
213,724595	125,9405	112,2215
221,802962	127,443	119,5948
223,947232	136,1306	123,0051
227,51523	145,5593	128,8064
240,948136	155,0083	132,8391
257,346656	157,9149	133,9362
258,345501	158,0133	134,3415
263,594211	159,9702	137,1537
263,889043	160,228	141,7149
286,692554	162,8768	145,6983
288,105134	168,4899	146,8893
292,068216	174,7169	149,207
294,905308	176,1499	154,9795
296,596041	176,5506	159,2783
297,198024	183,1587	163,7366

302,090413	183,6623	165,407
306,904827	187,8628	165,9598
307,072708	189,9831	167,1961
308,697792	190,6304	167,7692
308,787697	192,182	168,9648
315,655491	193,5946	168,9851
316,542093	194,5443	171,1054
319,743748	195,4736	172,0189
321,263837	195,9077	172,0189
326,425213	196,0264	173,501
327,281671	196,3288	174,679
328,668758	198,5769	174,7373
331,031012	201,2749	175,0442
332,603037	202,757	176,4523
333,261574	203,2319	178,4833
338,621416	207,0186	182,5651
346,469606	208,7873	184,9765
347,078667	213,9459	185,431
354,026659	218,9774	186,4095
358,616639	219,4319	191,3918
358,645443	220,6274	191,5597
361,355388	222,5352	195,3141
364,250087	225,491	195,4402
368,1261	226,4242	200,1777
374,648779	226,4491	205,3974
376,061359	227,2755	207,4278
376,343401	228,0211	213,2541
377,109376	230,1172	219,9763
387,131572	230,3342	220,6478
388,138854	236,2542	221,2248
388,702938	240,4836	227,8329
389,297143	241,5519	231,1736
391,164193	246,9192	232,0334

392,138123	249,8054	238,3299
392,714564	251,4554	240,5938
393,665524	252,6713	241,6011
397,530264	254,3417	241,7198
398,44764	255,2506	242,817
402,033174	256,843	252,6221
405,877547	257,9153	252,8392
408,936237	260,7766	256,4377
409,804442	265,4407	260,9044
410,946253	266,0381	267,8373
414,152456	267,7538	269,8006
415,666873	270,4722	275,8507
416,46554	272,6953	276,793
417,267701	272,7157	282,3326
424,435274	273,2889	288,4363
426,859684	276,6093	297,2964
433,28791	279,8432	297,6237
438,151495	280,4452	315,2075
448,460282	280,8301	317,6477
449,242076	283,9334	321,4921
450,970049	285,3868	324,5462
453,798704	291,5154	325,6434
468,811632	300,1826	336,4966
469,188127	304,1661	337,2868
470,428279	306,5571	338,0686
471,104348	307,6747	340,0453
472,86462	311,8668	354,5348
475,038627	313,0328	355,1776
476,995582	316,5997	364,5079
484,942114	316,8575	366,1375
500,163657	319,1214	366,7061
501,981536	323,4694	371,8117
502,673424	332,3899	378,2761

505,273097	333,3729	378,522
505,895447	334,1751	384,4827
506,775583	334,7279	386,3905
507,762497	334,7521	387,0129
508,634197	338,2857	388,1101
509,41599	340,2426	394,9102
512,0241	341,7878	396,3228
521,656817	351,2026	401,1864
530,96287	355,0543	401,1864
536,452694	356,7784	402,7872
539,658897	359,2797	404,4221
547,753894	361,6216	411,5647
569,712504	367,2059	414,9686
572,025587	372,2662	416,7641
573,106296	376,3191	418,557
581,552579	382,9311	422,2008
591,313101	385,7682	427,4866
614,894911	385,8665	432,1535
700,603044	389,4893	434,6429
740,217026	398,4188	444,4192
	398,6359	448,1449
	399,2582	452,325
	400,4741	456,2797
	407,7779	456,9512
	410,398	458,3146
	437,5987	464,0228
	500,6661	464,7502
	558,0572	464,9469
	564,157	477,1674
	564,3786	480,6721
	566,9376	500,5978
	572,2408	513,6165
	588,0503	525,7923

687,0756	527,5526
735,6704	692,7798

Descriptive Statistics

	Column 1		
	CTRL	24 h	48 h
Valid	105	120	120
Missing	0	0	0
Median	392.1	263.1	258.7
Mean	397.9	284.7	285.6
Std. Deviation	110.8	118.8	124.9
Minimum	142.2	101.7	85.50
Maximum	740.2	735.7	692.8

ANOVA

ANOVA - Column 1

Cases	Sum of Squares	df	Mean Square	F	p
Column 2	928,95	2	464,475	33.02	7.738×10 ⁻¹⁴
Residuals	4.811×10 ⁺⁶	342	14,067		

Note. Type III Sum of Squares

Post Hoc Tests
Standard (HSD)

Post Hoc Comparisons - Column 2

		Mean Difference	SE	df	t	p _{Tukey}
CTRL	24 h	113.230	15.85	342	7.144	1.598×10 ⁻¹¹
	48 h	112.310	15.85	342	7.086	2.327×10 ⁻¹¹
24 h	48 h	-0.921	15.31	342	-0.060	9.980×10 ⁻¹

Activated caspase-3 expression
All cells - Superficial layer

CTRL	24 h	48 h	
	0	5	9
	0	5	11
	0	7	12
	0	7	14
	0	11	20
	0	11	20
	0	11	22
	0	14	26
	0	20	28
	0	28	30
	1	39	36
	1	41	44
	2	46	50
	2		52
	2		53
	3		54
	3		58
	3		
	5		
	7		
	9		
	9		

Descriptive Statistics

	Column 1		
	CTRL	24 h	48 h
Valid	22	13	17
Missing	0	0	0
Median	1.000	11.00	28.00

Mean	2.136	18.85	31.71
Std. Deviation	2.900	14.70	17.00
Minimum	0.000	5.000	9.000
Maximum	9.000	46.00	58.00

ANOVA

ANOVA - Column 1

Cases	Sum of Squares	df	Mean Square	F	p
Column 2	8,527	2	4,263.6	28.27	6.854×10 ⁻⁹
Residuals	7,39	49	150.8		

Note. Type III Sum of Squares

Post Hoc Tests

Standard (HSD)

Post Hoc Comparisons - Column 2

		Mean Difference	SE	df	t	P _{Tukey}
CTRL	24 h	-16.71	4.296	49	-3.890	8.699×10 ⁻⁴
	48 h	-29.57	3.966	49	-7.456	3.900×10 ⁻⁹
24 h	48 h	-12.86	4.525	49	-2.842	1.759×10 ⁻²

Microglia - Superficial layer

CTRL	24 h	48 h	
	0	2	3
	0	3	3
	0	3	4
	0	3	7
	0	3	7
	0	4	8
	0	4	11

0	5	15
0	5	18
0	16	19
0	24	24
1	28	36
1	34	40
2		44
2		47
2		48
3		48
3		
4		
6		

Descriptive Statistics

	Column 1		
	CTRL	24 h	48 h
Valid	20	13	17
Missing	0	0	0
Median	0.000	4.000	18.00
Mean	1.200	10.31	22.47
Std. Deviation	1.704	11.23	17.44
Minimum	0.000	2.000	3.000
Maximum	6.000	34.00	48.00

ANOVA

ANOVA - Column 1

Cases	Sum of Squares	df	Mean Square	F	p
Column 2	4,162	2	2,080.9	15.20	8.129×10 ⁻⁶

Residuals	6,436	47	136.9
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Note. Type III Sum of Squares

Post Hoc Tests

Standard (HSD)

Post Hoc Comparisons - Column 2

		Mean Difference	SE	df	t	P _{Tukey}
CTRL	24 h	-9.108	4.169	47	-2.185	8.433×10 ⁻²
	48 h	-21.271	3.860	47	-5.510	4.359×10 ⁻⁶
24 h	48 h	-12.163	4.312	47	-2.821	1.882×10 ⁻²

All cells - Deep layer

CTRL	24 h	48 h	
	0	2	8
	0	6	8
	0	9	9
	1	9	12
	2	9	13
	2	10	15
	2	12	15
	3	15	17
	5	24	35
	8	28	36
	9	54	49
	10	57	53
	10	63	65
	11	69	66
	11	71	67
	11		68
	12		74
	15		86

18	91
19	
22	
26	

Descriptive Statistics

	Column 1		
	CTRL	24 h	48 h
Valid	20	15	19
Missing	0	0	0
Median	9.500	15.00	36.00
Mean	8.550	29.20	41.42
Std. Deviation	6.613	25.72	29.10
Minimum	0.000	2.000	8.000
Maximum	22.00	71.00	91.00

ANOVA

ANOVA - Column 1

Cases	Sum of Squares	df	Mean Square	F	p
Column 2	10,761	2	5,380.4	10.83	7.701×10 ⁻⁵
Residuals	25,33	51	496.7		

Note. Type III Sum of Squares

Post Hoc Tests

Standard (HSD)

Post Hoc Comparisons - Column 2

		Mean Difference	SE	df	t	P _{tukey}
CTRL	24 h	-20.65	7.612	51	-2.713	2.207×10 ⁻²
	48 h	-32.87	7.140	51	-4.604	5.418×10 ⁻⁵
24 h	48 h	-12.22	7.697	51	-1.588	2.518×10 ⁻¹

Microglia - Deep layer

CTRL	24 h	48 h
0	1	4
0	3	4
0	3	6
0	4	6
0	4	8
1	4	9
1	7	10
1	9	14
5	23	30
6	25	31
7	45	46
8	53	49
9	56	55
10	60	55
10	65	58
11		63
11		69
11		74
11		81
18		
19		
23		

Descriptive Statistics

	Column 1		
	CTRL	24 h	48 h
Valid	22	15	19
Missing	0	0	0
Median	7.500	9.000	31.00

Mean	7.364	24.13	35.37
Std. Deviation	6.772	24.51	27.22
Minimum	0.000	1.000	4.000
Maximum	23.00	65.00	81.00

ANOVA

ANOVA - Column 1

Cases	Sum of Squares	df	Mean Square	F	p
Column 2	8,154	2	4,076.8	9.515	2.947×10 ⁻⁴
Residuals	22,709	53	428.5		

Note. Type III Sum of Squares

Post Hoc Tests

Standard (HSD)

Post Hoc Comparisons - Column 2

		Mean Difference	SE	df	t	p _{Tukey}
CTRL	24 h	-16.77	6.931	53	-2.419	4.905×10 ⁻²
	48 h	-28.00	6.483	53	-4.320	2.009×10 ⁻⁴
24 h	48 h	-11.24	7.150	53	-1.571	2.668×10 ⁻¹

Microglia process extensions

CTRL	24 h	48 h
9,388889	12,72778	10,24444
11,705554	14,00556	15,56111
14,561111	16,72222	15,93334
17,644444	17,87222	16,58333
18,338889	18,58333	16,66667
22,533334	18,9	17,43333

22,66111	20,15	17,77222
24,65555	20,25556	20,66111
28,17777	20,43889	21,07778
28,91667	20,96111	21,68333
36,36111	21,09444	24,28333
39,90555	21,4	24,48889
42,16667	21,48333	25,11667
44,47222	21,72778	25,58333
45,42778	23,07222	25,93889
168,44444	23,28333	25,98889
199,77778	24,24445	26,97778
210,99999	24,39444	28,15
214,11111	24,71111	30,23889
215,88889	25,14444	30,59444
220	25,19445	30,87222
226	26,03333	31,93333
253,88888	27	32,06111
262,55556	28,54445	34,42222
272,33333	28,83889	34,80556
275,88888	30,53889	36,08889
284,11111	31,99444	36,27778
285,33333	32,1	38,34445
300	32,81111	38,36667
308,33333	34,67778	40,29445
316,33333	35,23889	41,14445
324,33333	35,68889	41,3
325,33334	37,23889	42,29444
328,99999	37,32222	45,05556
335,77778	38,09445	46,17222
337,77778	39,63333	46,87222
357,33333	39,77222	48,27222
365,55555	40,72778	49,45556
367,88888	40,98889	52,41667

374,111111	41,08333	57,17222
379,444444	41,23333	60,98889
381,111111	42,36111	66,19444
394,111111	44,7	75,88333
403,666666	46,18333	76,82778
408,000001	50,3	96,83333
408,888889	51,42778	295,3333
411,444444	51,55556	371
412	52,46111	393,8889
412,777777	52,76111	436,4444
417,222223	55,73889	450,2222
422,333333	57,21667	474,2222
425	57,5	492,3333
439,999999	62,2	495,1111
443,555555	63,09445	499,7778
453,888889	78,94444	501,5556
466,888889	79,51111	525,2222
468,666667	80,21667	567
480,444445	84,26111	622,6667
481,888889	124,5556	659,2222
482,777778	155,0333	675,7778
489	204,6667	677,7778
495,444445	214,2222	691,2222
533,333333	223,8889	710,2222
539,333332	230,1111	792,1111
540,555556	234,7778	820,2222
563,555556	236,3333	827,6667
570,888889	278,2222	913,8889
580,777778	285,1111	942,6667
621,333333	287,4444	944
622,444444	313,8889	965,3333
629,222223	317,4444	1036,889
629,666667	335,1111	1098,444

635,000001	341,7778	1269,444
647,111111	352,8889	1422,222
649,111111	399,6667	1676,222
656	408,8889	
656,555555	413,1111	
664,888889	432,3333	
694,333334	435,7778	
703,888888	446,4444	
708,222222	450,6667	
716,888889	454,7778	
717,777777	493,8889	
732,555556	502,3333	
750,444444	567,1111	
788,444445	647,6667	
826,000001	693	
875,888889	695,3333	
903,88889	700,1111	
908,444446	1079,444	
920,222222		
969,111112		
978,222222		
987,555556		
1067,33333		
1068,66667		
1087		
1095,88889		
1249,55556		
1278,33333		
1340,66667		
1344,33333		
1475,11111		
1596,11111		
1925,88889		

Descriptive Statistics

	Column 1		
	CTRL	24 h	48 h
Valid	105	90	75
Missing	0	0	0
Median	440.0	50.86	49.46
Mean	519.7	167.8	318.5
Std. Deviation	378.1	213.0	403.2
Minimum	9.389	12.73	24.okt
Maximum	1,926	1,079	1,676

ANOVA

ANOVA - Column 1

Cases	Sum of Squares	df	Mean Square	F	p
Column 2	6.082×10 ⁺⁶	2	3.041×10 ⁺⁶	26.25	3.924×10 ⁻¹¹
Residuals	3.094×10 ⁺⁷	267	115,863		

Note. Type III Sum of Squares

Post Hoc Tests
Standard (HSD)

Post Hoc Comparisons - Column 2

		Mean Difference	SE	df	t	p _{Tukey}
CTRL	24 h	351.9	48.90	267	7.197	1.899×10 ⁻¹¹
	48 h	201.2	51.46	267	3.909	3.452×10 ⁻⁴
24 h	48 h	-150.7	53.22	267	-2.832	1.375×10 ⁻²

Microglia process retractions

CTRL	24 h	48 h
9,794444	12,98333	10,95
10,583334	15,09445	15,31667
15,055556	17,20556	16,18889
18,088889	18,52778	16,94445
18,638889	19,17222	17,07222
21,727778	19,22778	17,97778
22,455555	20,53889	18,11111
24,555555	20,60556	21,11111
27,677778	20,88333	22,11111
29,861111	21	22,67778
37,055556	21,13333	24,50556
40,566667	21,4	25,25556
41,766667	21,49444	25,62222
44,066666	22,68333	25,66667
44,616667	22,94445	25,85556
195,111111	24,15556	25,96111
203,222221	24,80556	28
209,333333	24,92778	28,31667
223,333333	25,28333	29,70556
223,666667	25,35	31,18889
226,111111	25,46667	31,70556
237,888888	26,71111	31,71667
253,000001	26,91111	31,81111
256,333333	28,53333	35,05
264,000001	29,18889	35,08889
293,333333	30,92778	35,49444
294,777777	32,33889	36,4
301,222223	32,56667	38,88333
310,11111	33,25	38,96111
319	34,66667	40,08333
320,666666	35,23889	42,05

321,555556	35,83889	42,73333
329,777778	36,22222	43,65
334,222222	37,32222	46,2
338,666667	37,85556	47,25
342,666667	39,62778	47,64445
363,666666	40,32222	48,29445
376,111112	41,08889	49,98333
382,777778	41,27222	53,22778
384	41,80556	58,71111
388,222222	42,47222	60,64445
393,222223	43,51667	67,86111
394,666667	43,90556	76,65
410,888889	45,65556	78,2
412,222222	50,82222	98,18889
413,888889	51,2	304,3333
414,444445	51,68889	386,4444
428,777777	52,80556	393,4444
433,222221	53,55	450
441,555556	55,99445	455,6667
443,666666	57,97222	476,1111
443,777777	57,97778	496,1111
445,666667	62,46667	496,4444
460,666666	63,21111	501,3333
467,111111	79,83889	513,6667
473,000001	80,33889	540
475,666667	80,93333	602,1111
479,222223	85,18333	616,1111
483,111111	127,1333	672
486,111111	155,8389	678,3333
490,777778	204,6667	678,8889
500,888888	221,2222	706,5556
542,666667	231,6667	712,1111
543,666667	235	803

553,333333	239,5556	816,7778
576	239,7778	829,4444
608,333333	289,1111	899,7778
613,555556	291,8889	930,7778
620,333333	295,5556	949,7778
621,111112	305,2222	955,8889
633,88889	322,1111	1035,222
644	341,1111	1103,222
651,888889	345,3333	1233,333
653,222223	378,1111	1443,556
655,444445	408,2222	1665
659,888889	415,6667	
660,777778	444,1111	
665,555556	446	
682,333333	446,4444	
705,666666	451,6667	
722,444445	454	
723,888888	459,4444	
727,88889	517,3333	
729,000001	524,7778	
743,000001	585,8889	
804,777778	654,8889	
826,111111	685,5556	
889,000001	697,7778	
906,88889	706,2222	
908,999999	1116,111	
915,444445		
958,777777		
975,222222		
987,444444		
1037,22222		
1050,66667		
1057		

1090
1210,11111
1266,44445
1330,88889
1373,22222
1482,22222
1573,77778
1887,22222

Descriptive Statistics

	Column 1		
	CTRL	24 h	48 h
Valid	105	90	75
Missing	0	0	0
Median	445.7	51.01	49.98
Mean	523.4	171.2	320.1
Std. Deviation	373.6	217.8	402.7
Minimum	9.794	12.98	10.95
Maximum	1,887	1,116	1,665

ANOVA

ANOVA - Column 1

Cases	Sum of Squares	df	Mean Square	F	p
Column 2	6.104×10 ⁺⁶	2	3.052×10 ⁺⁶	26.51	3.145×10 ⁻¹¹
Residuals	3.074×10 ⁺⁷	267	115,124		

Note. Type III Sum of Squares

Post Hoc Tests

Standard (HSD)

Post Hoc Comparisons - Column 2

		Mean Difference	SE	df	t	p _{Tukey}
CTRL	24 h	352.3	48.74	267	7.228	1.569×10 ⁻¹¹
	48 h	203.3	51.30	267	3.963	2.793×10 ⁻⁴
24 h	48 h	-149.0	53.05	267	-2.809	1.473×10 ⁻²

Microglia scanning activity

CTRL	24 h	48 h
-0,197321	-0,1698	-0,18582
-0,193276	-0,15093	-0,16749
-0,192794	-0,14005	-0,15026
-0,170107	-0,13609	-0,14167
-0,158195	-0,13482	-0,12864
-0,158119	-0,13014	-0,12477
-0,156122	-0,12527	-0,1111
-0,133412	-0,11118	-0,10735
-0,132843	-0,1053	-0,10232
-0,132609	-0,10257	-0,10186
-0,130379	-0,09472	-0,10164
-0,129898	-0,08995	-0,1012
-0,12987	-0,08775	-0,09587
-0,128398	-0,08703	-0,09152
-0,124495	-0,08259	-0,08691
-0,123684	-0,07797	-0,0839
-0,122982	-0,07738	-0,08285
-0,121231	-0,07538	-0,08223
-0,11965	-0,07146	-0,08004
-0,118244	-0,06965	-0,07805
-0,117747	-0,06858	-0,0779
-0,115168	-0,06548	-0,07116

-0,113543	-0,05884	-0,06893
-0,11197	-0,05801	-0,06426
-0,10977	-0,05734	-0,06394
-0,10767	-0,05031	-0,06318
-0,107341	-0,04918	-0,06269
-0,10159	-0,04905	-0,05976
-0,097834	-0,04824	-0,05541
-0,087449	-0,04822	-0,0541
-0,085239	-0,04547	-0,05209
-0,083164	-0,04468	-0,05117
-0,082395	-0,0418	-0,04985
-0,08068	-0,03379	-0,04949
-0,077235	-0,03327	-0,04683
-0,076482	-0,02321	-0,04161
-0,07374	-0,0219	-0,03735
-0,073339	-0,01886	-0,03734
-0,07266	-0,01595	-0,03559
-0,072599	-0,0149	-0,03153
-0,071647	-0,01251	-0,03153
-0,069958	-0,01207	-0,03052
-0,069531	-0,01036	-0,02944
-0,067381	-0,01014	-0,02807
-0,067271	-0,00996	-0,02786
-0,066663	-0,00972	-0,02432
-0,065216	-0,00908	-0,02278
-0,062876	-0,00638	-0,02029
-0,061843	-0,00561	-0,01966
-0,061696	-0,00456	-0,01738
-0,058099	-0,0044	-0,01469
-0,051944	-0,00249	-0,01323
-0,050467	-0,00107	-0,01256
-0,049209	0,004808	-0,0116
-0,047457	0,006035	-0,01111

-0,046397	0,008661	-0,00502
-0,045225	0,013416	-0,00328
-0,043903	0,014321	-0,00126
-0,041229	0,016296	-0,00011
-0,041165	0,019694	0,000441
-0,039531	0,020535	0,000929
-0,037058	0,021945	0,001848
-0,032848	0,022629	0,004634
-0,032598	0,023196	0,005022
-0,031006	0,035451	0,005617
-0,02288	0,036237	0,007389
-0,021337	0,03869	0,015312
-0,020197	0,039594	0,019259
-0,011477	0,041624	0,028406
-0,010291	0,042791	0,041976
-0,010166	0,052966	0,044401
-0,007006	0,053272	0,045579
-0,00594	0,057614	0,052081
-0,005368	0,057784	0,080855
-0,004617	0,057873	0,111224
0,000838	0,061471	
0,005091	0,065435	
0,00939	0,067456	
0,010307	0,068908	
0,010652	0,074367	
0,011957	0,080004	
0,012794	0,080913	
0,013489	0,097258	
0,013835	0,097466	
0,015414	0,098569	
0,01885	0,103171	
0,028343	0,104213	
0,031953	0,165306	

0,034479	0,17185
0,034934	0,184049
0,036226	
0,040727	
0,042758	
0,046479	
0,046567	
0,049298	
0,061316	
0,061876	
0,06194	
0,06228	
0,063499	
0,068565	
0,083502	
0,113322	
0,122612	

Descriptive Statistics

	Column 1		
	CTRL	24 h	48 h
Valid	105	90	73
Missing	0	0	0
Median	-0.050	-0.010	-0.037
Mean	-0.047	-0.010	-0.042
Std. Deviation	0.071	0.073	0.050
Minimum	-0.197	-0.170	-0.167
Maximum	0.123	0.184	0.081

ANOVA

ANOVA - Column 1

Cases	Sum of Squares	df	Mean Square	F	p
Column 2	0.076	2	0.038	8.275	3.259×10 ⁻⁴
Residuals	1.227	267	0.005		

Note. Type III Sum of Squares

Post Hoc Tests
Standard (HSD)

Post Hoc Comparisons - Column 2

		Mean Difference	SE	df	t	p _{Tukey}
CTRL	24 h	-0.037	0.010	267	-3.850	4.340×10 ⁻⁴
	48 h	-0.005	0.010	267	-0.506	8.686×10 ⁻¹
24 h	48 h	0.032	0.011	267	3.048	7.134×10 ⁻³

Microglia area

CTRL	24 h	48 h
4481	11209	8091
6713	12167	10573
6763	16554	11498
7994	18757	12044
8540	18875	12622
9787	18978	14057
10118	20015	14755
11417	23401	14941
11705	24202	15133
11836	24385	15290
13194	24559	15343
13434	26051	15713
14061	26096	16192
14347	27479	17237
14473	29389	19043
15055	30510	20063

15578	36205	21991
16332	38626	22089
16662	53062	23291
18164	70793	26989
21368		27743
21654		32768
22211		34471
23201		40034
42600		46895
89374		62264
		63602
		65421
		86076
		100495
		101216
		115914

Descriptive Statistics

	Column 1		
	CTRL	24h	48h
Valid	24	19	29
Missing	0	0	0
Median	13,75	24,39	19,04
Mean	13,71	25,29	27,11
Std. Deviation	5,146	9,783	19,72
Minimum	4,481	11,21	8,091
Maximum	23,2	53,06	86,08

ANOVA

ANOVA - Column 1

Cases	Sum of Squares	df	Mean Square	F	p
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Column 2	2.610×10 ⁺⁹	2	1.305×10 ⁺⁹	6.809	2.001×10 ⁻³
Residuals	1.323×10 ⁺¹⁰	69	1.917×10 ⁺⁸		

Note. Type III Sum of Squares

Post Hoc Tests
Standard (HSD)

<i>Post Hoc Comparisons - Column 2</i>		Mean Difference	SE	df	t	p _{Tukey}
CTRL	24h	-11,579	4,251	69	-2.724	2.200×10 ⁻²
	48h	-13,399	3,82	69	-3.507	2.283×10 ⁻³
24h	48h	-1,821	4,086	69	-0.446	8.965×10 ⁻¹