Table S5. Microglial polymorphic layer estimates for aged, exercised and sedentary rats raised in large and small litters. Experimental parameters, optical fractionator counting results and individual unilateral microglial numbers (N) and mean groups with the coefficient of error (CE).

Subjects	Section thickness (µm)	N	CE	tsf	No. of counting frames	ΣQ⁻
Aged Sedentary from Large Litters						
SMG20 EX62	32.4 ± 7.69	27768.73	0.045	0.249 ± 0.035	208	265
VIE G21 EX66	24.4 ± 0.30	30496.62	0.041	0.288 ± 0.003	200	363
VSDE G21 EX64	33.9 ± 5.18	33614.91	0.042	0.227 ± 0.032	200	302
VSDE G29EX119	27.1 ± 0.28	33714.75	0.048	0.258 ± 0.002	214	362
VSDEG29EX120	33.4 ± 2.57	26736.54	0.052	0.214 ± 0.014	215	234
Mean	30.2± 1.89	30466.31	0.046			
SD		3227.03754				
$CV^2=(SD/Mean)^2$		0.011				
CE^2		0.002				
CE^2/CV^2		**0.1861**				
CVB^2		**0.009**				
CVB^2 (% of CV^2)		81%				
Aged Sedentary from Small Litters						
DOR EXP 122	30.4 ± 3.91	18690.85	0.053	0.257 ± 0.049	161	187
SM G01B	19.3 ± 0.20	15951.26	0.055	0.364 ± 0.004	165	239
VME G04B	19.4 ± 0.52	16177.82	0.050	0.362 ± 0.009	191	243
VSD G04B	22.2 ± 0.72	17137.98	0.047	0.317 ± 0.011	212	227
VSE G01	21.2 ± 0.33	21281.11	0.042	0.331 ± 0.005	219	290
Mean	22.5 ± 2.04	17847.8	0.049			
S.D.		2201.58423				
$CV^2=(D.P./Mean)^2$		0.015				
CE^2		0.002				
CE^2/CV^2		0.1593				
CVB^2		0.013				
CVB^2 (% of CV^2)		84%				

Subjects	Section thickness (µm)	N	CE	tsf	No. of counting frames	ΣQ⁻
Aged Exercised from Large Litters						
PAE G13	18.2 ± 0.29	21137.91	0.044	0.386 ± 0.006	216	338
SM G13	41.1 ± 0.60	23926.4	0.053	0.170 ± 0.003	211	168
SM G32	33.5 ± 3.12	23285.19	0.063	0.222 ± 0.023	205	205
VIE G32 A	26.2 ± 1.21	18720.87	0.052	0.269 ± 0.012	205	208
VSE G32 A	29.3 ± 1.30	20622.89	0.051	0.241 ± 0.010	204	206
Mean	29.7 ± 3.80	21538.65	0.053			
SD		2103.024				
$CV^2=(SD/Mean)^2$		0.010				
CE^2		0.003				
CE^2/CV^2		0.2918				
CVB^2		0.007				
CVB^2 (% of CV^2)		71				
Aged Exercised from Small Litters						
SMG23EX56	22.2±0.71	19418.85	0.048	0.310 ± 0.007	206	254
VIEG23EX58	21.4±1.21	19125.14	0.046	0.309 ± 0.012	223	248
VSDG01A	18.7±0.62	18840.02	0.044	0.378 ± 0.005	214	294
VSEG23EX59	24.4±1.04	20141.05	0.046	0.275 ± 0.007	207	229
VSEG25	22.1±0.76	17835.57	0.045	0.307 ± 0.015	213	226
Mean	22.5 ± 1.11	**19072.13**	0.046			
S.D.		843.88				
$CV^2=(D.P./Mean)^2$		0.002				
CE^2		0.0021				
CE^2/CV^2		1.0675				
CVB^2		-0.0001				
CVB^2 (% of CV^2)		-6.7453				

[a]All evaluations were performed using a 100X objective lens (Nikon, NA 1.3, DF = 0.19µm). a(frame), area of the optical dissector counting frame = 60 x 60 µm²; A(x,y step), x and y step sizes = 120 x 120; asf, area sampling fraction [a(frame)/A(x,y step)] = 0.25; tsf, thickness sampling fraction, calculated by the height of optical dissector = 7µm divided by section thickness, h/section thickness; ssf, section sampling fraction = 1/6; number of sections = 5; ∑Q⁻, counted microglial markers.