

Table S3. Microglial molecular layer estimates for aged, exercised and sedentary subjects 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).

<i>Subjects</i>	<i>Section thickness (μm)</i>	<i>N</i>	<i>CE</i>	<i>tsf</i>	<i>No. of counting frames</i>	<i>ΣQ^a</i>	<i>Subjects</i>	<i>Section thickness (μm)</i>	<i>N</i>	<i>CE</i>	<i>tsf</i>	<i>No. of counting frames</i>	<i>ΣQ^a</i>
Aged Sedentary from Large Litters							Aged Exercised from Large Litters						
<i>SMG20 EX62</i>	31.8 ± 7.43	31315.52	0.047	0.253 ± 0.036	199	305	<i>PAE G13</i>	17.7 ± 0.38	26842.82	0.038	0.396 ± 0.0083	224	443
<i>VIE G21 EX66</i>	23.4 ± 0.24	35491.54	0.040	0.299 ± 0.003	213	439	<i>SM G13</i>	40.2 ± 0.65	28099	0.052	0.175 ± 0.0028	212	203
<i>VSDE G21 EX64</i>	33.1 ± 5.21	36923.36	0.044	0.233 ± 0.034	203	338	<i>SM G32</i>	30.5 ± 3.55	27355.25	0.050	0.244 ± 0.0281	210	266
<i>VSDE G29EX119</i>	26.7 ± 0.41	32348.03	0.045	0.262 ± 0.004	203	351	<i>VIE G32 A</i>	25.8 ± 1.64	22590.08	0.047	0.277 ± 0.0163	198	258
<i>VSDEG29EX120</i>	32.4 ± 1.80	34783.94	0.045	0.219 ± 0.011	216	311	<i>VSE G32 A</i>	28.1 ± 1.47	24445.39	0.049	0.252 ± 0.0132	211	255
<i>Mean</i>	29.5 ± 1.89	34172.48	0.044				<i>Mean</i>	25866.51	25866.51	0.047			
<i>SD</i>		2300.65108					<i>SD</i>		2286.27				
<i>CV²=(SD/Mean)²</i>		0.005					<i>CV²=(SD/Mean)²</i>		0.008				
<i>CE²</i>		0.002					<i>CE²</i>		0.002				
<i>CE²/CV²</i>		0.4288					<i>CE²/CV²</i>		0.2865				
<i>CVB²</i>		0.003					<i>CVB²</i>		0.006				
<i>CVB² (% of CV²)</i>		57					<i>CVB² (% of CV²)</i>		71				
Aged Sedentary from Small Litters							Aged Exercised from Small Litters						
<i>DOR EXP 122</i>	29.5 ± 3.89	29682.22	0.043	0.262 ± 0.047	197	304	<i>SMG23EX56</i>	22.7 ± 0.26	22578.74	0.045	0.309 ± 0.036	211	289
<i>SM G01B</i>	18.6 ± 0.31	24145.84	0.039	0.378 ± 0.006	198	380	<i>VIEG23EX58</i>	22.1 ± 1.50	21724.54	0.048	0.323 ± 0.021	210	293
<i>VME G04B</i>	18.9 ± 0.29	21524.84	0.044	0.370 ± 0.006	207	330	<i>VSDG01A</i>	18.4 ± 0.61	23877.26	0.040	0.382 ± 0.012	215	378
<i>VSD G04B</i>	21.6 ± 0.64	22572.45	0.046	0.325 ± 0.010	212	304	<i>VSEG23EX59</i>	24.8 ± 1.17	22193.94	0.051	0.285 ± 0.013	209	261
<i>VSE G01</i>	19.8 ± 0.58	21415.26	0.045	0.356 ± 0.010	211	316	<i>VSEG25</i>	22.4 ± 0.59	23503.34	0.043	0.314 ± 0.008	228	305
<i>Mean</i>	21.7 ± 2.02	23868.122	0.044				<i>Mean</i>		22775.56	0.045			
<i>S.D.</i>		3430.27445					<i>S.D.</i>		897.9239				
<i>CV²=(D.P./Mean)²</i>		0.021					<i>CV²=(D.P./Mean)²</i>		0.002				
<i>CE²</i>		0.002					<i>CE²</i>		0.002				
<i>CE²/CV²</i>		0.0921					<i>CE²/CV²</i>		1.3170				
<i>CVB²</i>		0.019					<i>CVB²</i>		0.000				
<i>CVB² (% of CV²)</i>		91					<i>CVB² (% of CV²)</i>		-32				

^aAll 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 = 90 x 90; asf, area sampling fraction [a(frame)/A(x,y step)] = 0.44; 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; ΣQ^a, counted microglial markers.