

Table S1. Microglial granular 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).

<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</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</i>
<b>Aged Sedentary from Large Litters</b>							<b>Aged Exercised from Large Litters</b>						
<i>SMG20 EX62</i>	31.5 ± 7.55	7354.49	0.070	0.258 ± 0.037	198	126	<i>PAE G13</i>	17.5 ± 0.14	5088.23	0.063	0.400 ± 0.003	220	151
<i>VIE G21 EX66</i>	23.5 ± 0.22	8337.7	0.059	0.298 ± 0.003	206	184	<i>SM G13</i>	40.2 ± 0.81	6841.19	0.083	0.175 ± 0.003	213	89
<i>VSDE G21 EX64</i>	32.7 ± 5.33	9083.46	0.0615	0.236 ± 0.034	199	146	<i>SM G32</i>	30.5 ± 3.11	6241.22	0.081	0.241 ± 0.025	184	108
<i>VSDE G29EX119</i>	26.7 ± 0.39	7679.83	0.068	0.263 ± 0.004	201	150	<i>VIE G32 A</i>	24.9 ± 1.14	5440.69	0.073	0.284 ± 0.012	203	114
<i>VSDEG29EX120</i>	32.2 ± 3.10	5493.52	0.085	0.224 ± 0.017	200	90	<i>VSE G32 A</i>	27.5 ± 1.44	4986.48	0.084	0.257 ± 0.013	210	94
<i>Mean</i>	29.3 ± 1.80	7589.8	0.069				<i>Mean</i>	28.1 ± 3.7	5719.6	0.077			
<i>SD</i>		1346.12784					<i>SD</i>		797.4859				
<i>CV<sup>2</sup>=(SD/Mean)<sup>2</sup></i>		0.031					<i>CV<sup>2</sup>=(SD/Mean)<sup>2</sup></i>		0.019				
<i>CE<sup>2</sup></i>		0.005					<i>CE<sup>2</sup></i>		0.006				
<i>CE<sup>2</sup>/CV<sup>2</sup></i>		0.1507					<i>CE<sup>2</sup>/CV<sup>2</sup></i>		0.3032				
<i>CVB<sup>2</sup></i>		0.027					<i>CVB<sup>2</sup></i>		0.014				
<i>CVB<sup>2</sup> (% of CV<sup>2</sup>)</i>		85					<i>CVB<sup>2</sup> (% of CV<sup>2</sup>)</i>		70				
<b>Aged Sedentary from Small Litters</b>							<b>Aged Exercised from Small Litters</b>						
<i>DOR EXP 122</i>	27.6 ± 4.06	4501.15	0.077	0.284 ± 0.049	155	88	<i>SMG23EX56</i>	22.2 ± 0.71	4345.33	0.075	0.317 ± 0.01	203	100
<i>SM G01B</i>	18.1 ± 0.06	4644.68	0.071	0.388 ± 0.001	171	134	<i>VIEG23EX58</i>	21.4 ± 1.21	4493.32	0.072	0.333 ± 0.019	195	110
<i>VME G04B</i>	19.2 ± 0.40	4642.5	0.071	0.366 ± 0.007	194	125	<i>VSDG01A</i>	18.7 ± 0.62	4277.57	0.076	0.376 ± 0.011	196	117
<i>VSD G04B</i>	21.5 ± 0.69	4862.41	0.068	0.327 ± 0.011	173	118	<i>VSEG23EX59</i>	24.4 ± 1.04	4738.17	0.080	0.289 ± 0.012	196	99
<i>VSE G01</i>	20.2 ± 0.34	4112.38	0.074	0.348 ± 0.006	190	106	<i>VSEG25</i>	22.1 ± 0.76	4506.42	0.079	0.319 ± 0.011	223	105
<i>Mean</i>	21.3 ± 1.66	4552.62	0.072				<i>Mean</i>	21.8 ± 0.91	4472.16	0.076			
<i>S.D.</i>		277.93					<i>S.D.</i>		177.72				
<i>CV<sup>2</sup>=(D.P./Mean)<sup>2</sup></i>		0.004					<i>CV<sup>2</sup>=(D.P./Mean)<sup>2</sup></i>		0.002				
<i>CE<sup>2</sup></i>		0.005					<i>CE<sup>2</sup></i>		0.006				
<i>CE<sup>2</sup>/CV<sup>2</sup></i>		1.3958					<i>CE<sup>2</sup>/CV<sup>2</sup></i>		3.668				
<i>CVB<sup>2</sup></i>		-0.001					<i>CVB<sup>2</sup></i>		-0.004				
<i>CVB<sup>2</sup> (% of CV<sup>2</sup>)</i>		-40					<i>CVB<sup>2</sup> (% of CV<sup>2</sup>)</i>		-267				

<sup>a</sup>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 μm<sup>2</sup>; 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, counted microglial markers.