Supplementary Table 1. Modification of the *Sema1a*-overexpression-induced axonal hyper-fasciculation phenotype by reducing the dosage of other genes

Genotype	Number of axons or axon bundles[a]	Number of hemispheres examined
wt	30.8 ± 6.7^{b}	25
GMR-GAL4, UAS-sema1a/+	17.6 ± 2.8	21
2XGMR-GAL4,UAS-sema1a	8.0 ± 3.4	21
GMR-GAL4, UAS-sema1a; abl^2/+	18.0 ± 3.6	21
GMR-GAL4, UAS-sema1a; bif^{R47}/+	19.8 ± 3.6	18
GMR-GAL4, UAS-sema1a; chic^{221}/+	19.5 ± 5.3	18
GMR-GAL4, UAS-sema1a; capu^{M732}/+	19.2 ± 5.7	19
GMR-GAL4, UAS-sema1a; cdc42^3/+	18.7 ± 3.9	24
GMR-GAL4, UAS-sema1a; dock^{P2}/+	19.1 ± 4.5	11
GMR-GAL4, UAS-sema1a; ena^{GC1}/+	18.7 ± 4.3	18
GMR-GAL4, UAS-sema1a; klar^{mBX5}/+	21.4 ± 6.4	18
GMR-GAL4, UAS-sema1a; pak1^6/+	19.8 ± 3.9	22
GMR-GAL4, UAS-sema1a; nervy^1/+	18.1 ± 2.4	15
GMR-GAL4, UAS-sema1a; Rac1^{J11}Rac2$^{\Delta}$ Mtl$^{\Delta}$ /+	17.0 ± 3.2	23
GMR-GAL4, UAS-sema1a; Rho1$^{E3.10}$/+	7.3 ± 4.8^{c}	23

[a] The number of axons or axon bundles that separated from neighboring bundles at the region between lamina and medulla were counted. The data was normalized with the row number of R-cell clusters in the eye disc.

[b] Standard deviation

[c] Compared to Sema1a overexpression alone, reducing the dosage of *Rho1* by 50% in larvae overexpressing Sema1a significantly enhanced the hyper-fasciculation phenotype (P<0.0001).