

Comparison	Figure	Primary Statistical Test	Post Test
Retinal pericyte coverage at P5 & P10	2K-L	SRH (Factors: genotype and region)	MWU Tests + Bonferroni Correction
No. of Avascular regions/ mm ²	5E	ANOVA (Factors: genotype and region)	TukeyHSD
No. of Branchpoints/ mm ²	5F	ANOVA (Factors: genotype and region)	TukeyHSD
RGC counts	6M	Kruskall-Wallis test	MWU Tests + Bonferroni Correction
Cerebral cortex and retinal pericyte coverage at P5 by Desmin staining	Supp. Fig. S3	SRH (Factors: genotype and region)	MWU Tests

Supplementary Table S3: Statistical Analysis Undertaken

The normality of the data analysed was assessed by Shapiro-Wilk test and by visual inspection and subsequently the appropriate parametric or non-parametric tests were performed.

SRH: two-way Scheirer-Ray-Hare (SRH) extension of the Kruskal-Wallis rank sum test, MWU Tests: pairwise Mann-Whitney U-tests. ANOVA: two-way ANalysis Of VAriance, TukeyHSD: pairwise Tukey's Honestly Significant Difference. Prior to analysis the avascular regions /mm² and branchpoints/ mm² data was root and probit transformed respectively.