Three-dimensional Optical Coherence Tomography Evaluation of Vascular Changes at Arteriovenous Crossings

Kyoko Kumagai,¹ Akitaka Tsujikawa,¹ Yuki Muraoka,¹ Yumiko Akagi-Kurashige,¹ Tomoaki Murakami,¹ Kazuaki Miyamoto,¹ Ryo Yamada,² and Nagahisa Yoshimura¹

¹Department of Ophthalmology and Visual Sciences, ²Center for Genomic Medicine, Kyoto University Graduate School of Medicine, Kyoto, Japan.

FIGURE LEGENDS FOR SUPPLEMENTAL MATERIAL

Supplemental Video 1. Sequential thin sections of an arteriovenous crossing site, obtained along the retinal vein. At the crossing, the retinal vein abruptly changes direction and passes under the retinal artery. Focal narrowing of the venous lumen is observed at the crossing site.

Supplemental Video 2. Sequential thin sections of an arteriovenous crossing site, obtained perpendicular to the retinal vein. The retinal artery runs straight within the inner retina. At the crossing, the retinal vein abruptly changes direction and passes under the retinal artery. No venous compression or flattening is seen. The venous lumen is round, even just under the artery.