

Quantitative study of spatial and temporal variation in retinal capillary network perfusion in rat eye by in vivo confocal imaging

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Supporting Information File

Movie S1 (Movie S1.avi). Movie showing a representative 30 second FITC and Cy5 channel in vivo time series after preprocessing and alignment. The pixel size is 4.93 μ m and the original frame rate was 58.25 fps. The frame rate of the movie has been reduced to 15 fps for easier visualisation of fRBC movement.

Software S1 (compute_kymograph_direction_histograms.ijm). FIJI script used in the computation of vessel segment fRBC velocity.

Software S2 (kymo_analysis.R). R script used in the computation of vessel segment fRBC velocity.

Software S3 (spot_detector.ijm). FIJI script used to detect fRBC candidates in each frame of an in vivo time series.

Software S4 (vessel_diameter.ijm). FIJI script used to estimate selected vessel diameters in each frame of an in vivo time series.

*The scripts Software S1-S4 are presented with syntax highlighting in **Software S1-S4.docx**.