



TECHNICAL NOTE

Supplementary Material

Qiber3D - an open-source software package for the quantitative analysis of networks from 3D image stacks

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Supplementary Movies

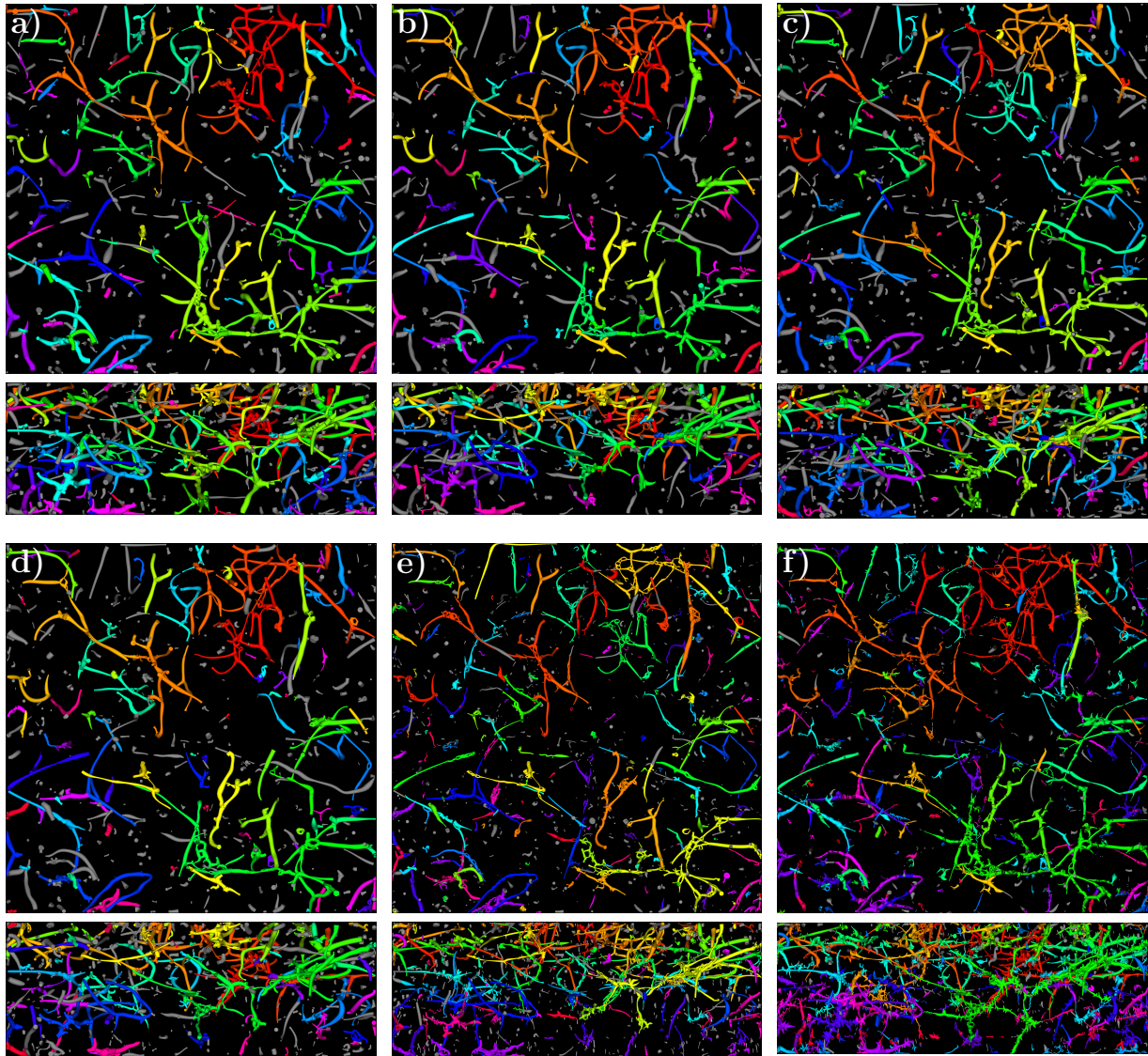
Supplementary Movie 1 - Synthetic Network. [10.6084/m9.figshare.13633802](https://doi.org/10.6084/m9.figshare.13633802)
3D rendering of the synthetic example network coloured by segment, exported from Qiber3D.

Supplementary Movie 2 - Microvascular network. [10.6084/m9.figshare.13633805](https://doi.org/10.6084/m9.figshare.13633805)
3D rendering of the microvascular network colored by fiber, reconstructed with Qiber3D.

Supplementary Movie 3 - Compare extraction steps. [10.6084/m9.figshare.13633799](https://doi.org/10.6084/m9.figshare.13633799)
Screencast of the comparison view in Qiber3D that allows for side-by-side visualization of the raw image, the z-drop corrected image, the binary image and the reconstructed network.

Supplementary Movie 4 - Neuronal network. [10.6084/m9.figshare.13633823](https://doi.org/10.6084/m9.figshare.13633823)
3D rendering of the neuronal example network (red-necked wallaby, [10.1002/cne.24349](https://doi.org/10.1002/cne.24349)) colored by segment, exported from Qiber3D.

Supplementary Figure



Supplementary Figure S1. Qiber3D's image processing workflow with various combinations of optional steps in comparison to Fig. 6 in the main manuscript. An image of the final reconstructed network is shown as an average intensity projection along the z-axis (upper panels) and along the x-axis (lower panels). a) All optional steps turned on. b) Correction for z intensity attenuation omitted. c) Morphological operations following binarization omitted. d) Optional steps omitted except for Gaussian filter. e) Optional steps omitted except for median filter. f) Optional steps omitted except for morphological operations.