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Dear editor,

Following your invitation we are submitting a manuscript entitled “*Comprehensive optical and data management infrastructure for high-throughput light-sheet microscopy of whole mouse brains*” by Müllenbroich *et al.* for consideration for publication in the Journal of Neurophotonics for its special issue on “Light Microscopy of Connectivity”.

The paper presents a complete and detailed framework for whole mouse brain imaging. Starting with a full description of our double-sided light-sheet microscope and its constituent components we further give details of the custom-written control software which coordinates the microscope's reliably synchronised operation. The data produced in our experiments easily amounts several TB per data set and needs to be compressed, stored, transferred, retrieved and processed necessitating the concurrent development of novel computational interface and analysis methods. Here we present a comprehensive, robust and fully automated pipeline of data management starting from the streaming of raw images up to the stitching of 3D data sets. The meso-scale neuroanatomy imaged at micron-scale resolution in those data sets allows characterization and quantification of neuronal projections in unsectioned mouse brains.

We believe that this paper will be very useful and of interest to readers in the areas of neuroanatomy, light microscopy development and computational methods for the management of optical measurements yielding very large data sets.

Thank you for giving us the opportunity to contribute to this special issue,

I look forward to hearing from you.

Best Regards,

Francesco Pavone