



UNIVERSITY OF SOUTH ALABAMA

27 November 2018

Nandita Singh, Ph.D.  
Senior Science Editor, JoVE

Dear Dr. Singh,

I am pleased to submit a methods manuscript entitled 'An Excitation-Scanning Hyperspectral Imaging Microscopy Method to Efficiently Discriminate Fluorescence Signals' for consideration to the Journal of Visualized Experiments (JoVE). This manuscript contains a detailed description for using a new spectral imaging microscopy modality we have developed, called excitation-scanning hyperspectral imaging. In the manuscript, we provide details regarding set up of an excitation-scanning hyperspectral imaging microscope system, configuration of software for running the system, calibration of the system to NIST-traceable response, and the procedure for acquiring experimental data using the system. In prior work, we have demonstrated that the approach of excitation-scanning hyperspectral imaging microscopy can provide 10-100X increased signal and imaging speed, compared to prior emission-scanning hyperspectral imaging approaches. We have also received many enquiries at conferences as to the availability of such a system and how best to utilize such a system. Hence, we believe that the manuscript will both be a good fit for JoVE by describing the methodology to use this new microscope imaging approach as well as generate interest by readers in the biomedical sciences and biomedical imaging fields. We do feel that it is important to disclose that I and Dr. Thomas Rich are founders of a recently-formed start-up company, SpectraCyte LLC, which plans to commercialize excitation-scanning technology for endoscopic and other biomedical imaging applications. However, the technology utilized for this specific JoVE manuscript is not part of our commercial endeavors and is already available as off-the-shelf components, ready for purchase. Please contact me should you have any questions and I look forward to hearing from you.

Sincerely

A handwritten signature in blue ink, appearing to read 'Silas J. Leavesley'.

Silas J. Leavesley, Ph.D.

Professor

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