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Manuscript Submission

Date 10.07.2018

Dear editor,
we are contacting you to submit following your invitation our manuscript entitled:

" Visualizing adhesion formation in cells by means of advanced spinning disk-total internal reflection fluorescence microscopy." authors : B. Zobiak¹ (b.zobiak@uke.de), Antonio Virgilio Failla¹ (a.failla@uke.de)

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We would highly appreciate if you would proof if this as an article suitable for publication in JoVE: The corresponding author is Antonio Virgilio Failla.

This paper aims to contribute to the development of light microscopy applied to biological systems. Although both spinning disk (SD) and total internal reflection fluorescence (TIRF) microscopy are already well known since long time, their combination has not been, according to our knowledge, widely utilized in live cell imaging. We present a simple (that makes use of ordinary optics) but innovative setup that permits the combination of SD and TIRF microscopy. This is the first microscope proved to perform, live SD-TIRF experiments at high acquisition rates and represents in our opinion a unique tool for specific imaging of the plasma membrane. A series of experiments and original protocols to calibrate the microscope, prepare the sample as well as display the acquired data will be presented. The data shown aim to demonstrate the potential and performance of our setup. Please feel free to contact us any time for further information:

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Thank you for considering our manuscript for submission.

Yours sincerely,

Dr. Antonio Virgilio Failla



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