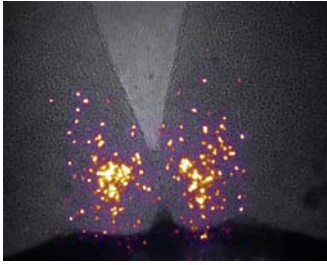


# Imaging Technology Update

2008-2009

VOLUME 5



## Out of the Routine and Into the EXtreme™!

Current Publications and Presentations: Outstanding Scientific Results, SPI Enabled

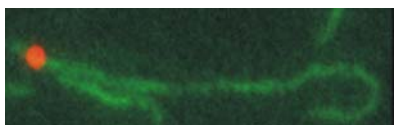
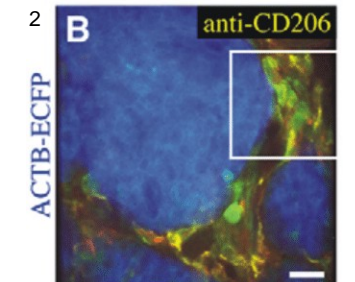
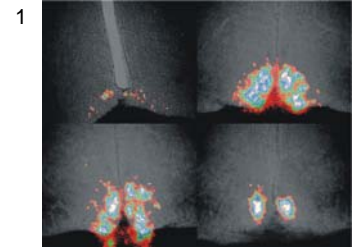
**Can Your Imaging System Do This?** Stanford Photonics, Inc. Presents:  
A Short List of the Current Articles and Presentations of Interest Highlighting  
Results Obtained Using SPI Advanced Imaging Platforms

1 **Davidson, Alec J., et al.** "Visualizing jet lag in the mouse suprachiasmatic nucleus and peripheral **circadian timing system**." European Journal of Neuroscience Volume 29, 2009: pp. 171-180. Mice subjected to a 6 h phase shift require at least 8 days before the SCN regains normal internal synchrony. (Obtained using the **XR/Mega-10Z™: single photon BLI imaging of SCN slices**)

2 **Egeblad, M., Ewald, A., et al.** "Visualizing **stromal cell dynamics** in different tumor microenvironments by spinning disk confocal microscopy" Disease Models and Mechanisms 2008 Sep-Oct; 1(2-3): 155-167. Published online 18 Sept. 2008. Downloaded 23 Jan. 2009:  
<<http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=2562195>>.  
"[These] techniques are not limited to investigations in cancer, but could give new insights into cell behavior more broadly in development and disease." (Obtained using the **XR/Mega-10 S30™: multi-color long time-lapse fluorescence**)

3 **Segal, Steven S., et al.** "Propagated Endothelial Ca<sup>2+</sup> Waves and Arteriolar Dilation In Vivo: Measurements in Cx40 BAC GCaMP2 Transgenic Mice" Circulation Research Oct. 2007: 1300-1309. American Heart Association. Dallas, TX. Downloaded from the University of Missouri-Columbia Website 9 Jan. 2008:  
<<http://circres.ahajournals.org/cgi/content/full/101/12/1300>>.  
Using the **XR-Mega10 AW™** camera, Dr. Segal is able to capture real-time imaging of the increase of intracellular concentration of calcium which then propagates as a calcium wave in all directions along the endothelial layer of in vivo arterioles.

4 "The in vivo Motion, Processivity, and Stepping of **Single Molecules of Myosin Va**" A MiniSymposium on Actin Based Motors: Presented at ASCB 2008, San Francisco  
**Shane R. Nelson, M. Yusuf Ali, Kathleen Trybus, and David Warsaw**  
The University of Vermont  
Qdot labeled, myosin Va molecules were introduced into mammalian fibroblast cells and individual molecules were observed in motion with the **XR/Mega-10 S30™**.



Our Corporate Objective: Continue to Provide Advanced Imaging Technologies that Help Move Applications and Research...  
"Out of the routine and into the EXtreme™!"

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