

# Webinar Invitation: Quantitative Image and Data Acquisition for Fluorescent Specimens

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*Source:* <http://sci.tech-archive.net/Archive/sci.image.processing/2007-09/msg00026.html>

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- *From:* [dhitrys@xxxxxxxxxxxxx](mailto:dhitrys@xxxxxxxxxxxxx)
  - *Date:* Wed, 05 Sep 2007 16:22:15 -0700
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You are invited to attend a live, interactive, web-based instructional seminar:

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"Quantitative Image and Data Acquisition for Fluorescent Specimens"  
Advice from a Facility Director

Presented by Brian Matsumoto, Ph.D., University of California, Santa Barbara

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Details are below. Connection lines are limited, so reserve yours now. There is no charge to participate in this on-line seminar.

When:

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Thursday, 13-September, 1:00PM (Eastern time; 10 AM Pacific time.)  
Duration: Approximately 1 hour.

Pre-register (required) at:

<https://mediacy.webex.com/mediacy/j.php?ED=99592442&RG=1>

[If this link has wrapped, please re-build it in your web browser's address bar. The line begins with "https" and ends with "RG=1" ]

Details:

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Attendees will learn about issues affecting the quantitative accuracy of fluorescence images acquired through a microscope and will pick up tips and suggestions for improving image quality, making better use of the camera's light collection abilities, and will learn the nomenclature associated with digital imaging. Attendees will leave with a better understanding of how to characterize and optimize their optical system, camera, and software. Bring your questions to this

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- What is bit depth and when/why does it matter?
- What is dynamic range?
- Characterizing your camera's linear range.
- Noise and other sources of data uncertainty.
- Maximizing your camera's light collection capabilities.
- Setting the best exposures.
- Correcting for photobleaching.
- Collecting images in 3D.

### About the presenter

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Brian Matsumoto, Ph.D. is the Director of the Integrated Microscopy Facility and is an Associate Adjunct Professor for the department of Molecular, Cellular and Developmental Biology Department at the University of California Santa Barbara. He is the author of Basic Methods in Light Microscopy (Cambridge University Press) and editor of Cell Biological Applications of Confocal Microscopy (Academic Press).

Upcoming Webinar: "Deconvolving 3D Fluorescence Images for Quantitative Analysis" (invitations will be sent separately).

Sponsored by Media Cybernetics (Image Pro and AutoQuant software) and QImaging (precision CCD cameras)

This seminar requires that attendees use a Java-enabled browser with a high bandwidth connection. Audio is via toll-free telephone.

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