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# The Second NIT Hands-on Training

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**Mon 28 Sep 2009**  
**15:30-17:00**

**Tue 29 Sep 2009**  
**10:00-11:30**  
**13:30-15:00**

**Nikon Imaging-Techno Lab**  
**Hands-On Training 2009-II**

## “Live-Cell Imaging”

### **Photo-activation/conversion of fluorescent proteins observed by high-speed simultaneous imaging**

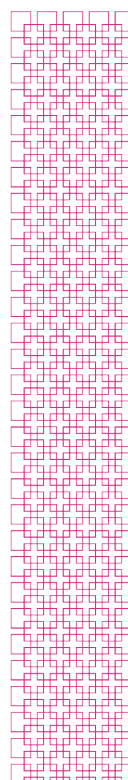
We will provide hands-on training sessions for performing photo-activation/conversion of fluorescent proteins, and its high-speed imaging. Photo-activation can be performed during high-speed imaging, allowing researchers to observe in real time how the activation/conversion proceeds. We will use a Nikon A1 microscope working in the Nikon Imaging-Techno Lab of CeMI (Center for Meso-Bio Single-Molecule Imaging) of iCeMS, located in the Complex 2 building of iCeMS (second floor, clean zone). Please join and experience the state-of-the-art confocal microscopy and photo-activatable proteins.

**Contact:**

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Gaku Odani, Nikon Instech        Tel: 075-705-2271 /    E-Mail: Odani.Gaku@nikonoa.net

**Hosted by:**

Nikon Imaging-Techno Lab  
@CeMI (Center for Meso-Bio Single-Molecule Imaging Center)  
@iCeMS (Institute for Integrated Cell-Material Sciences), Kyoto University



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**The number of acceptable participants is limited due to the availability of instruments. Please send the application form as soon as possible by fax (075-781-5374) or E-mail (Odani.Gaku@nikonoa.net).**

**Date & Time:**

Training 1: Monday, September 28, 2009 15:30-17:00 (English)

Training 2: Tuesday, September 29, 2009 10:00-11:30 (Japanese)

Training 3: Tuesday, September 29, 2009 13:30-15:00 (Japanese)

All sessions will be the same, except for the language.

**Venue:** Nikon Imaging-Techno Lab of CeMI  
iCeMS Complex 2, Room 209, Kyoto University

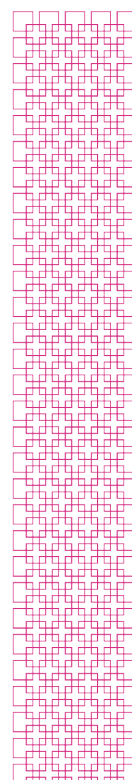
**Fee:** Free of charge

**Number of persons acceptable:**

Up to 6 persons for each training

**Contents:**

- 1) Photoactivation and its high-speed imaging  
Observation of the diffusion of photoactivatable-GFP expressed in cells, upon the activation with the laser beam of 405 nm, using high-speed confocal microscopy.
- 2) Spectral Unmixing (Separation of overwrapped multicolor images)  
Separation of GFP and YFP, which emit fluorescence with their spectra only 15nm apart to each other, using a spectral imaging confocal microscope.



# Hands-on Training Application Form

Please fax this form to Gaku Odani, Nikon Instech Co., Ltd.

**FAX: 075-781-5374**

Affiliation  (Lab/Dept./Inst. Company/Univ.)	
Name	
Address	〒
Phone	
E-mail Address	
Check your preferred session	<input type="checkbox"/> Mon. Sep 28 15 : 30-17 : 00 <input type="checkbox"/> Tue. Sep 29 10 : 00-11 : 30 <input type="checkbox"/> Tue. Sep 29 13 : 00-15 : 30

