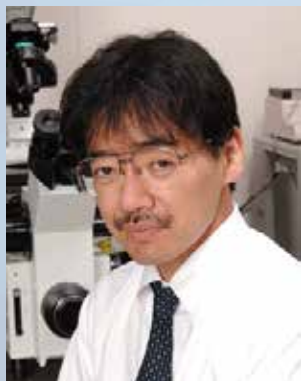


# ITbM-IGER



# Seminar



## **Prof. Atsushi Miyawaki**

Principal Investigator  
Center for Advanced photonics, RIKEN  
Brain Science Institute, RIKEN

## ***“Cruising inside cells”***

**Date: November 14, 2016**

**Time: 13:30~15:00**

**Noyori Conference Hall**

**Language: English**

### **Abstract**

The behavior of biomolecules moving around in cells makes me think of a school of whales wandering in the ocean, captured by the Argus system on the artificial satellite. When bringing a whale back into the sea — with a transmitter on its dorsal fin, every staff member hopes that it will return safely to a school of its species. There is some concern that a whale fitted with a transmitter may be given the cold shoulder and thus ostracized by other whales. In live cell imaging, a fluorescent probe replaces a transmitter. We label a fluorophore on a specific region of a biomolecule and bring it back into a cell. We then visualize how the biomolecule behaves. Cruising inside cells in a supermicro corps, gliding down in a microtubule like a roller coaster, pushing our ways through a jungle of chromatin while hoisting a flag of nuclear localization signal — we are reminded to retain a playful and adventurous perspective at all times. What matters is mobilizing all capabilities of science and giving full play to our imagination. We believe that serendipitous findings can arise out of such a sportive mind, a frame of mind that prevails when enjoying whale-watching.

**Contact:**

**Tsuyoshi Hirota**

**E-mail: [thirota@itbm.nagoya-u.ac.jp](mailto:thirota@itbm.nagoya-u.ac.jp)**