

# 5th AIST International Imaging Workshop & DAILAB PIKNIKH Series XXI

*"Health and Disease Innovation"  
Nutrition, Natural Drugs & New Trends*

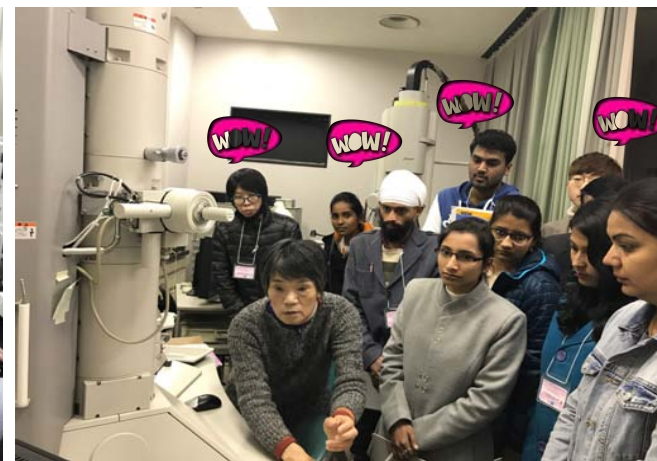
Biomedical Research Institute (<https://unit.aist.go.jp/bmd/en/>)  
National Institute of Advanced Industrial Science & Technology (AIST)  
1-1-1 Higashi, Tsukuba Science City 305 8566, Japan

**January 21-30, 2018**



Supported by  
Japan Science & Technology Agency  
"Sakura Science Program in Science"

5th AIST International Imaging Workshop Program (Jan 21 - 30, 2018)							
	21 (Sun)	22 (Mon)	23 (Tue)	24 (Wed)	25 (Thu)	26 (Fri)	27 (Sat)
9:00		Opening, Orientation & Introduction Yoshihiro Ohnaka & Sunil Kaul Room: Cyu-Kaigi-shitsu	AIST Member Presentation M. Oda (AIST) R. Watanabe (AIST) Room: Syou-Kaigi-shitsu	AIST Member Presentation K. Ito (Osaka Univ.) Y. Ohnishi (Nikon Inst.) Room: Syou-Kaigi-shitsu	AIST Member Presentation A. Kikawa (Osaka Univ.) K. Kato (AIST) Room: Syou-Kaigi-shitsu	AIST Member Presentation R. Kurita (AIST) L. Oishi (AIST-Kanagawa) Room: Syou-Kaigi-shitsu	Bus Tour to Tokyo
10:00		Special Lecture I Hisashi Kamura (Tokyo Inst. Tech.) Room: Cyu-Kaigi-shitsu	Laboratory Course I Light Microscopy Lecturers: Y. Ohnishi (Nikon) K. Kato (AIST) Room: Syou-Kaigi-shitsu	Laboratory Course II Confocal Microscopy Hand-on training Basic operation: Multi-color imaging Z-stack imaging Room: 6-10 121, 123, 125	Laboratory Course III Sim Imaging Supported by Nikon Room: 6-10 1F-121	Laboratory Course V FCS Analysis Supported by Carl Zeiss Room: 6-10 1F-125	9:00 Tsukuba 10:30-11:30 Mingshi-Kagakukan 13:30-14:00 Lunch 14:30-16:30 Asakusa
11:00			Visit to AIST Electron Microscope Facility		Laboratory Course III to VI will be rotated in each group		
12:00		Lunch	Lunch	Lunch	Lunch	Lunch	
13:00	Arrival	DAILAB PIKNIKH Series XXI "Health and Disease Innovation: Nutrition, natural Drugs & New Trends"	Laboratory Course I Bright Field Microscopy Phase-Contrast Microscopy DIC Microscopy Fluorescent Microscopy Room: Cyu-Kaigi-shitsu	Laboratory Course II (continued) Basic operation: Multi-color imaging Z-stack imaging Applied operation: Spectral imaging Time-lapse imaging STED Super resolution Airy scan imaging Room: 6-10 1F-121, 123, 125	Laboratory Course IV Two-photon & Ca <sup>2+</sup> imaging Supported by Olympus & Hamamatsu Photonics Room: 6-10 1F-123	Laboratory Course VI Screening by Luminescence Supported by ATTO Room: 6-1 2F-225	28 (Sun)  Networking
14:00							
15:00							
16:00							
17:00		Room: Cyu-Kaigi-shitsu					29 (Mon)  Visit to DAILAB, AIST
18:00	Dinner	Welcome Party				Banquet	30 (Tue)  Departure



# Review and Report

DAILAB has been conducting one-week full residential training workshop for bioimaging that ranged from the principles of light microscopy to high-resolution imaging instructed by AIST experts with assistance from Nikon, Olympus, Zeiss and ATTO Corporations. This year, 5<sup>th</sup> annual workshops have been successfully completed. Intensive lectures in the mornings by experts in the field were followed by hands-on microscope training in the afternoons. Entire lecture sessions and hands-on trainings were organized for providing a feel of connectivity of science to technology, and were thoroughly appreciated at all ends including organizers, trainees and industries. The workshop was highlighted by PIKNIKH Series XXI that took place on Day 1- Jan 21, 2018 where in senior faculty from Manipal University, India and CycloChem Co. Ltd Japan participated and delivered highly informative and innovative talks to motivate young students for science career, and bridging technologies to products and benefits to society .





**DAILAB PIKNIKH Series XXI - Jan 22, 2018**







## Poster BAR and AWARDS- Jan 22, 2018



**1<sup>st</sup> Prize**  
**Guruprasad**  
**Manipal University**



**2<sup>nd</sup> Prize**  
**Devivasha Bordoloi**  
**IIT-Guwahati**



**3<sup>rd</sup> Prize**  
**Hongsik Kim**  
**Hanyang Univ.**

## Reception and opening ceremony- Jan 22, 2018







## Lectures and interactions- Jan 23, 2018





## Classroom & Laboratory Lectures- Jan 23, 2018



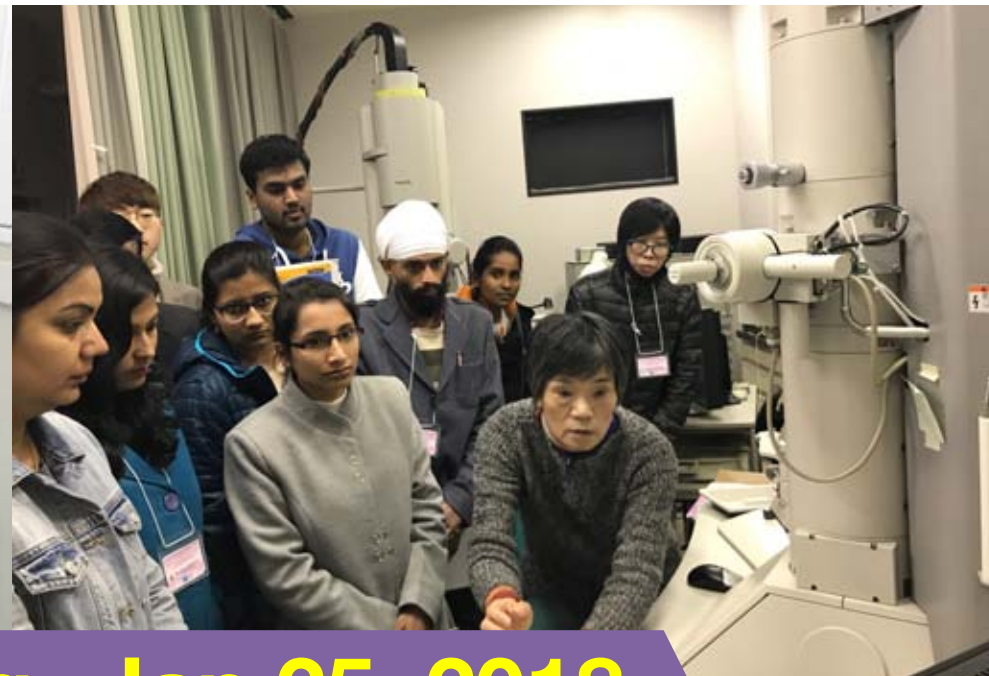




**Classroom & Laboratory training- Jan 24, 2018**



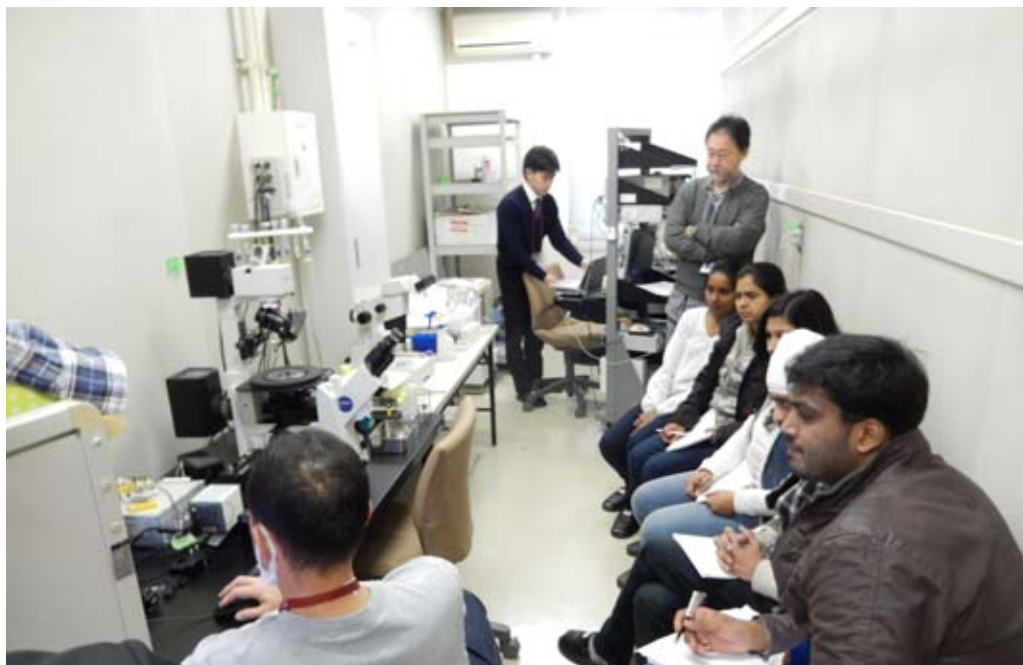




## Hands-on training- Jan 25, 2018







## Hands-on training- Jan 26, 2018



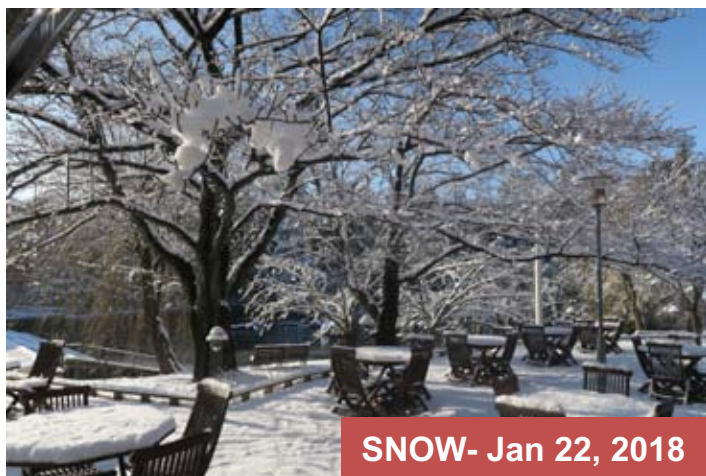




## Farewell- Jan 26, 2018







SNOW- Jan 22, 2018



Departing- Jan 30, 2018

## LAB Visit and fun times



ASAKUSA Temple



DAILAB Visit



AIST, Central Area



Miraikan, Tokyo Trip



Mixer, Sakura kan