1st DAILAB @ RCB Symposium (PIKNIKH Series XV)

(Platform for Innovating KNowledge to International KnowHow)

February 2, 2017

National Institute of Advanced Industrial Science and Technology AIST | BMRI BIOMEDICAL | UNESCO REGIONAL CENTRE FOR BIOTECHNOLOGY an institution of education, training and research | Department of Biotechnology Government of India

1st DAILAB @ RCB Symposium

In partnership with the

PIKNIKH Series XV

(Platform for Innovating KNowledge to International KnowHow)

Cellular Mechanisms in Health and Disease

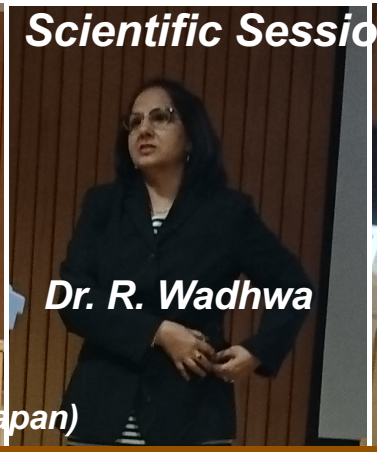
"Building on Bioimaging & Beyond the Borders"

February 2, 2017

VENUE: RCB-Faridabad, Conference Room, Ground Floor

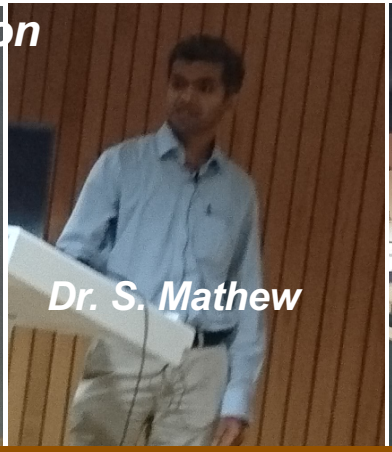
10:00 - 10:35	**Registration and Inaugural session**
10:05 - 10:15	*Dr. Sudhanshu Vrati, Executive Director, RCB, India* Welcome address
10:15 - 10:25	*Dr. Yoshihiro Ohmiya, Director, BMRI, Japan* Brief Introduction of AIST and BMRI
10:25 - 10:35	*Dr. Sunil Kaul, Chief Senior Researcher, AIST, Japan* Brief Introduction of DAILAB@AIST
	Scientific Session - I **Health & Disease - Novel Molecular Mechanisms**
10:35 - 10:55	*Dr. Renu Wadhwa, Prime Senior Researcher, AIST, Japan* CARF - A novel protein bridge between cellular senescence and carcinogenesis
10:55 – 11:15	*Dr. Sam Mathew, RCB, India* Embryonic myosin heavy chain is a novel regulator of skeletal muscle differentiation
11:15 - 11:30	**GROUP PHOTO & TEA**
11:30 - 11:50	*Dr. Sunil Kaul, Chief Senior Researcher, AIST, Japan* Ashwagandha bioactive for cancer treatment: biology to biotechnology
11:50 - 12:10	*Dr. Avinash Bajaj, RCB, India* Translating the cellular mechanisms of tumor progression to future therapeutics using engineered biomaterials
12:10 - 12:30	*Dr. Masami Kojima, AIST, Osaka, Japan* BDNF - A multifunctional growth factor in brain disease diagnostics and therapeutics
12:30 - 12:50	*Dr. Chittur Srikanth, RCB, India* Gut pathogen Salmonella remodels host SUMO landscapes to gain intracellular survival
12:50 - 13:10	*Dr. Pinky Kain Sharma, RCB, India* Understanding neuronal ensheathment in the peripheral nervous system of Drosophila larva
13:10 - 14:00	**LUNCH**
	Scientific Session - II **Bioluminescence & Bioimaging for Disease Diagnostics & Therapeutics**
14:00 - 14:20	*Dr. Yoshihiro Ohmiya, Director, BMRI, Japan* Quest for quantitative imaging- answers by bioluminescence
14:20 - 14:40	*Dr. K Vengadesan, RCB, India* Visualization of bacterial pili
14:40 - 15:00	*Dr. Kaoru Katoh, AIST, Japan* Observation of cellular fine structures with super resolution microscopes
15:00 - 15:20	*Dr. Saikat Bhattacharjee, RCB, India* Immunity in plants: Dynamics of defense regulators and pathogen effector perturbations
15:20 - 15:40	*Dr. Yoshiaki Onishi, AIST, Osaka, Japan* Building bioassays and botanicals for circadian rhythm managements
15:40 - 15:50	**TEA**
	Scientific Session - III **Beyond the Borders**
15:50 - 16:00	*M. S. Tanwar, Towa Optics, India* Introduction of Super-resolution Technology
16:00 - 16:10	*Dr. Ajit Datar, Shimadzu Analytical (India) Pvt. Ltd.* Mass spectrometry for disease biomarker
16:10 - 16:20	*Dr. Anjali Madhavan Shijo, Mitsui Chemical, Singapore* Biotechnology research in Mitsui Chemicals Group
16:20 -17:00	**Networking session** **Discussion on modalities of Imaging Workshop at RCB** **Free Interaction**
17:00	Departure

Dr. S.Vrati (RCB Director) welcoming
Dr. Y. Ohmiya (Director, BMRI -AIST, Japan)



Scientific Session

Dr. R. Wadhwa



Dr. S. Mathew

Dr. S. Kaul

Dr. C. Srikanth

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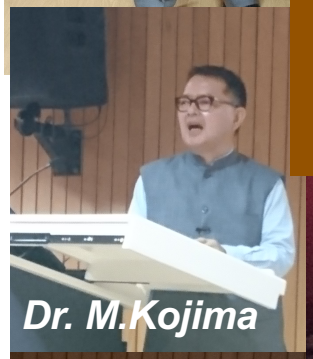
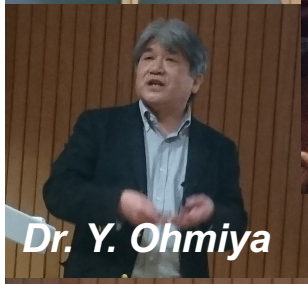
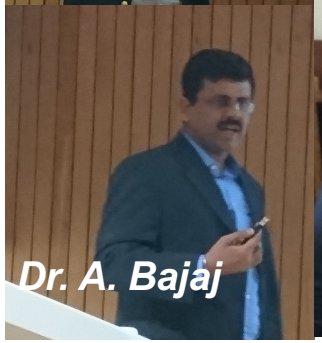


Dr. M.Kojima



Dr. Y. Ohmiya

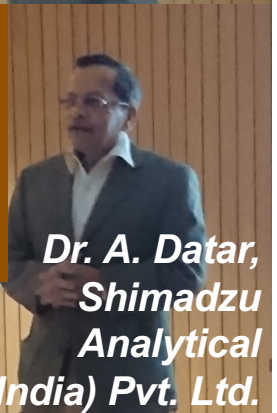
"Focus on Future Meeting"



Dr. A. Bajaj

Dr. S. Mylavarapu

Dr. K. Katoh



Dr. A. Datar, Shimadzu Analytical (India) Pvt. Ltd.

M. S. Tanwar, Towa Optics, India

Dr. A. M. Shijo, Mitsui Chemical, Singapore

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Cellular Mechanisms in Health and Disease -Building on Bioimaging & Beyond the Borders

February 2, 2017 ; RCB-Faridabad, India

Minutes of the meeting
DAILAB-AIST
DAILAB-RCB
2017-02-02

Members

Dr. S. Vrati (Director,RCB, India)
Dr. Y. Ohmiya (Director, BMRI -AIST, Japan)
Dr. Y. Ohnishi (Deputy Director, BMRI-AIST, Japan)
Dr. S. Kaul, Chief Senior Scientist, BMRI-AIST, Japan
Dr. R. Wadhwa, Prime Senior Scientist, BMRI-AIST, Japan
Dr. S. Katoh Chief Senior Scientist, BMRI-AIST, Japan
Dr. S. Mylavarapu, Associate Prof. RCB, India
Dr. S. Mathew, Associate Prof. RCB, India

Discussion

- Logistics of imaging workshop to be held at RCB and helped by DAILAB-AIST- confocal
  1. Contents- Training for fluorescent microscopes, Confocal, Animal imaging, Super resolution, Cryo EM, Scanning EM.
  2. RCB technician go to AIST for pre-training that will be supported by AIST
  3. The trained technician and RCB team will conduct the imaging WS
  4. AIST will Invite microscope companies fro Japan and India
  5. AIST team will arrange the academic talks on imaging during the workshop
  6. RCB will select representative members to run the imaging WS along with AIST team
  7. RCB will apply for additional budget for imaging WS from DBT
  8. AIST will support their members who will run the workshop at RCB