Report for JSPS Asian Science Seminar/Japan-India Forum for Advanced Study FY2017 <Summary>

		Date <u>March 31, 2018</u>
1. Title of	Seminar	JSPS-DST Japan-India Forum for Advanced Study: Epigenetics and Human Disease
2. Purpose	of Seminar	
Indo-Japar	Science C	ouncil is a joint advisory board set up jointly by Japan Society for the Promotion of Science, Japan,
and Depar	tment of So	cience and Technology, India, and serves to promote collaboration between the two countries. This
Asian Scie	ences Semir	nar was planned to promote interactions of scientists in the fields of epigenetics and microbiology at
the levels	of principal	l investigators, new faculty members, and graduate students of PhD courses. Main themes included
host-patho	gen interact	tions, microbiome of human bodies, biology of pathogenic bacteria, and epigenetic gene regulation in
the contex	t of human	diseases. Not only infectious diseases but also cancer, metabolic disease and degenerative diseases
were discu	ssed. With	these activities, we tried to promote future collaborations among participants.
3. Period	F	From <u>02/06/2018</u> through <u>02/10/2018</u> (5_days)
4. Venue	F	Bose Institute, Kolkata, India
5. Organiz (1) C	ation osponsors	
	Japan Side	Japan Society for the Promotion of Science
	Japan Side	Graduate School of Medicine, Tohoku University
	T. 1' - C' 1.	Department of Science and Technology (DST)
	India Side	Bose Institute
		e Name in full <u>Kazuhiko IGARASHI</u> Affiliation and Position <u>Tohoku University, Professor</u>
	N T., 4! ! 1	
2	2) India side N	Vame in full Siddhartha ROY

Bose Institute, Professor

Affiliation and Position

6. Program: Agenda, Topics, Related Activities (e.g., Reception, Excursion)

Described in abstract book

7. Lecturers and Participants

1) Number of Persons

	Lecturers	Participants	Total
Japan side	10	4	14
(Number who participated under program funding)	8	4	12
India side	24	34	58
(Number who participated under program funding)	0	0	0
Other persons	0	0	0
(Number who participated under program funding)	34	38	72
Total	8	4	12
(Number who participated under program funding)	10	4	14

2) List

A: Lecturers

Name in full	Position / Affiliation / Institution (Country of Affiliated Institution)	Remarks
-Japan side		
Akira Ishihama	Professor/ Micro-Nano Technology Research Center/Hosei	*
	University(Japan)	
Atsushi Higashitani	Professor/ Graduate School of Life Sciences/Tohoku University(Japan)	*
Tomoko Yamamoto	Professor/ Medical Mycology Research Center/Chiba University(Japan)	*
Akio Abe	Professor/ Graduate School of Infection Control Sciences/Kitasato	*
	University(Japan)	
Eizo Takahashi	Associate Professor/ Graduate School of Medicine, Dentistry and	
	Pharmaceutical Sciences/Okayama University(Japan)	
Tatsuo Fukagawa	Professor/ Graduate School of Frontier Biosciences/Osaka	
C	University(Japan)	
Hitoshi Kurumizaka	Professor/ Graduate School of Advanced Science and Engineering/	*
	Waseda University(Japan)	
Yutaka Kondo	Professor/ Graduate School of Medicine/Nagoya University(Japan)	*
Ikuro Kawagishi	Professor/ Department of Frontier Bioscience/Hosei University(Japan)	*
Kazuhiko Igarashi	Professor/Graduate School of Medicine/Tohoku University(Japan)	*
-India side		
Rao MRS	Professor/ Molecular Biology and Genetics Unit/Jawaharlal Nehru	
	Center for Advanced Scientific Research(India)	
Kundu Tapas K.	Professor/ Molecular Biology and Genetics Unit/Jawaharlal Nehru	
_	Center for Advanced Scientific Research(India)	
Khosla Sanjeev	Senior Researcher/ Laboratory of Mammalian Genetics/ Centre for	
-	DNA Fingerprinting and Diagnostics(India)	
Basu Joyoti	Professor/ Department of Chemistry/ Bose Institute(India)	
Modak Rahul	Assistant Professor/School of Biotechnology/ Kalinga Institute of	
	Industrial Technology(India)	
Chowdhury Rukhsana	Chief Scientist /CSIR/ Indian Institute of Chemical Biology(India)	
Paul Sandip	Professor/ CSIR / Indian Institute of Chemical Biology(India)	
Saha Nabanita	Senior Researcher/ CSIR / Bose Institute(India)	

Mishra Rakesh K.	Professor/Mishra Group/ Centre for Cellular & Molecular Biology
	(India)
Bhattacharyya Suvendra	Senior Researcher/ Molecular Genetics Division / Indian Institute of
Nath	Chemical Biology(India)
Sen Sabyasachi	Researcher/ Biophysics Division/ Saha Institute of Nuclear Physics
	(India)
Sundaresan Ravi	Assistant Professor/Division of Biological Sciences/ Indian Institute of
	Science(India)
Kolthur Ullas S.	Associate Professor/Department of Biological Sciences/ Tata Institute
	of Fundamental Research(India)
Ghosh Koushik	Researcher/CSIR/ Indian Institute of Chemical Biology(India)
Gupta Sanjay	Senior Researcher/ Epigenetics and Chromatin Biology laboratory /
	ACTREC(India)
Das Chandrima	Associate Professor/ Biophysics and Structural Genomics Division/
	Saha Institute of Nuclear Physics(India)
Satyamoorthy K.	Professor/ School of Life Science/ Manipal University(India)
Sa Gaurisankar	Professor/ Division of Molecular Medicine/ Bose Institute(India)
Rao D.N.	Professor/Department of Biochemistry / Indian Institute of Science
	(India)
Roy Siddhartha	Professor/ Department of Biophysics/ Bose Institute(India)
Chattopadhyay Samit	Professor/ CSIR/ Indian Institute of Chemical Biology(India)
Gupta Sujoy Kumar Das	Professor/ Department of Microbiology/ Bose Institute(India)
Das Tanya	Professor/ Division of Molecular Medicine/ Bose Institute(India)
Chattopadhyay Dhrubojyoti	Professor/Center for Nanoscience and Nanotechnology/ University of
	Calcutta(India)

Place a check [*] in the Remarks Column for those who participated using JSPS's seminar funding.

B: Participants

Name in full	Position / Affiliation / Institution (Country of Affiliated Institution)	Remarks
-Japan side		
Yasukazu Daigaku	Assistant Professor/ Graduate School of Life Sciences /	*
	Tohoku University(Japan)	
Wataru Kobayashi	Assistant Professor/ Graduate School of Advanced Science and	*
	Engineering /Waseda University(Japan)	
Miho Suzuki	postdoctoral fellow/ Graduate School of Medicine /	*
	Nagoya University(Japan)	
Yukari Miyake	Ph.D. student/ Department of Frontier Bioscience /	*
	Hosei University(Japan)	
-India side		
Kaype Stephanie	Ph.D. student/ Molecular Biology and Genetics Unit /Jawaharlal Nehru	
	Center for Advanced Scientific Research(India)	
Shah Sanket	Ph.D. student/Cancer Research Institute/ ACTREC (India)	
Boila Liberalis Debraj	Ph.D. student/Cancer Biology and Inflammatory Disorder Division/	
	Indian Institute of Chemical Biology(India)	
Sharda Asmita	Ph.D. student/Epigenetics and Chromatin Biology Group/ Advanced	
	Centre for Treatment, Research and Education in Cancer(India)	
Sikder Sweta	Ph.D. student/ Molecular Biology and Genetics Unit / Jawaharlal	
	Nehru Center for Advanced Scientific Research(India)	
Sarkar Sibani	Ph.D. student/ Drug Development, Diagnostics and Biotechnology	
	Division/ Indian Institute of Chemical Biology(India)	
Chattopadhyay Tandrika	Ph.D. student/Department of Biological Sciences / Tata Institute of	
	Fundamental Research(India)	

Patra Samir	Ph.D. student/Epigenetics and Cancer Research Laboratory/ National
	Institute of Technology Rourkela(India)
Chatterjee Shankha Subhra	Ph.D. student/Cancer Biology and Inflammatory Disorder Division/
	Indian Institute of Chemical Biology(India)
Maniyadath Babukrishna	Ph.D. student/Department of Biological Sciences / Tata Institute of
	Fundamental Research(India)
Roy Dia	Ph.D. student/Division of Molecular Medicine/ Bose Institute(India)
Saha Parna	Ph.D. student/Mishra Group/ Centre for Cellular and Molecular
	Biology(India)
Thamban Thushara	Ph.D. student/ Department of Mammalian Genetics/ The Centre for
	DNA Fingerprinting and Diagnostics(India)
-Other Persons	
Basu Subham	Ph.D. student/Molecular Genetics Division/ Indian Institute of
Daba Davilatii	Chemical Biology(India)
Patra Sunanu	Ph.D. student/ Midnapore Homeopathic Medical College(India)
Dey Suchismita	Ph.D. student/ Molecular Biology and Genetics Unit /
Dej Duemsinia	Jawaharlal Nehru Center for Advanced Scientific Research(India)
Yadav Dipika	Ph.D. student/ Molecular Genetics Division / Indian Institute of
Tadav Dipika	Chemical Biology(India)
Verma Arpana	Ph.D. student/Bioinformatics Center/ Bose Institute(India)
Sengupta Sourabh	Ph.D. student/Department of Biotechnology/ St. Xavier's College(India)
Dash Aiswarya	Ph.D. student/School of Biotechnology/ Institute of Industrial
Dasii Aiswaiya	
Mishas Das saus	Technology(India)
Mishra Pragyan	Ph.D. student/ School of Biotechnology / Lalinga Institute of Industrial
G . T.1	Technology(India)
Sengupta Isha	Ph.D. student/Biophysics and Structural Genomics Division/
D' M. 11	Saha Institute of Nuclear Physics(India)
Biswas Mayukh	Ph.D. student/Translational Research Unit of Excelence/
IZ	Indian Institute of Chemical Biology(India)
Kumari Nidhi	Ph.D. student/ Department of Biological Sciences & Bioengineering/
0.1 11 137 1 1	Indian Institute of Chemical Biology(India)
Cahudhari Narendrakumar	Ph.D. student/Structural Biology and Bioinformatics Division/
D (D)	Indian Institute of Chemical Biology(India)
Dasgputa Pratiti	Ph.D. student/ Division of Plant Biology/ Bose Institute(India)
Mallik Rwitie	Ph.D. student/ Department of Biochemistry/ Bose Institute(India)
Ray Atrayee	Ph.D. student/ Department of Biochemistry / Bose Institute(India)
Jana Ananya	Ph.D. student/ Department of Biochemistry / Bose Institute(India)
Datta Shankari Prasad	Ph.D. student/ Department of Biochemistry / Bose Institute(India)
Lahiri Abhishake	Ph.D. student// Indian Institute of Chemical Biology(India)
Chakraborty Dwaipayan	Ph.D. student/ Structural Biology and Bioinformatics Division /
	Bose Institute(India)
Mrutyunjay Suar	PhD student/ School of Biotechnology/Kalinga Institute of Industrial
	Technology (India)
Depth Sudarshan	Ph.D. student/ Molecular Biology and Genetics Unit /Jawaharlal Nehru
	Center for Advanced Scientific Research(India)

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8. Please describe the achievements of the seminar.

We invited leading scientists and younger generation including junior faculties and PhD students in the areas of epigenetics and microbiology. Not only principal investigators but also junior members and PhD students gave excellent lectures on these issues. Most exciting parts of this seminar include topics on interactions of host and microbes that lead to modulation

of epigenetic states of host chromatin. Also interesting were talks on chromatin-like structure of microbes and many experts on mammalian epigenetics gave constructive suggestions on these issues. Several investigators in the field of metabolic diseases such as diabetes also participated in this meeting from India. Their presence in the seminar led to hot discussions on interactions between epigenetics and metabolism. As such, interdisciplinary flavor of this seminar was very successful and we are quite sure that this seminar will lead to further international collaborations. Prof. Akira Ishihama gave extremely stimulating talk in the Plenary Lecture session on how his group has been working to elucidate functions of all of the transcription factors encoded by E. coli genome.

This seminar was also very successful to stimulate and motivate next generation of scientists because of many exciting lectures and active interactions between lecturers and participants. After lectures, many PhD students from India tried to discuss lecturers to gain further insights and ideas. This very active attitude of Indian PhD students was a good surprise to Japanese participants. We need to encourage such an active way of participating in science among Japanese graduate students. We should have planned a longer time frame for the meeting to spare enough time for interaction and discussion among participants. Nonetheless, we are quite sure that this seminar will lead to active interactions and collaborations between India and Japan.

India is trying to expand programs/universities/research institutes. Many younger generation of scientists are coming back home after postdoctoral training in US or Europe. We found many excellent, high quality of research projects in India. It will be very important for Japan to further strengthen international collaboration and interaction with India.