

**The 2<sup>nd</sup> International Symposium (SSPC-2)**  
**Space Science of High Quality Protein Crystallization Technology**  
Program

**【Date】** 21<sup>st</sup>October 2016 (Friday) 10:00—17:30

**【Venue】** Yayoi Auditorium, Ichijo Hall Annex seihoku galary, The University of Tokyo  
 〒113-8657 1-1-1 Yayoi Bunkyo-ku, Tokyo  
 Tel.: 03-5841-8205 Fax: 03-5841-5028

**【Access】** <http://www.a.u-tokyo.ac.jp/yayoi/map.html>

**【Fee】** Free

**【Apply】** Advance reservations not required

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	10:00	Opening	
1	10:00 10:05	Opening Remarks	Kazuki Sakamoto Deputy Director Space Development and Utilization Division, Research and Development Bureau, The Ministry of Education, Culture, Sports, Science and Technology (MEXT), JAPAN
2	10:05 10:10	Greeting from Project Representative	Yoshihiro Urade Professor/PI International Institute for Integrative Sleep Medicine, University of Tsukuba
3	10:10 10:20	Project Concept and Achievement	Shwu-Jen Wang Project Researcher Department of Biomaterial Sciences, School of Agricultural and Life Sciences, The University of Tokyo
		Keynote Speech	
4	10:20 11:00	Utilization and Future Potential of International Space Station (ISS)”	Invited Speaker 1 Yamazaki Naoko Former JAXA Astronaut Member of Committee on National Space Policy

		Panel discussion	
	11:00 12:00	Title : the Integration of Research and Industry	<u>Speakers</u> <u>Overseas</u> ① Edward Snell President and Chief Executive Officer Hauptman-Woodward Medical Research Institute (HWI). ② Vekilov. Peter Professor University of Houston. <u>Domestic</u> ① Yamazaki Naoko Former JAXA Astronaut Member of Committee on National Space Policy ②Takahashi Mizuki Research Fellow Daiichi Sankyo RD Novare ③Mitsugu Yamada Associate Senior Researcher / Ph.D. JEM utilization Center Human Spaceflight Technology Directorate Japan Aerospace Exploration Agency (JAXA)
	12:00 13:00	Lunch Time	
		Invited Speech	
5	13:00 13:40	The non-classical mechanism of protein crystal nucleation	<u>Invited Speaker 1</u> Vekilov. Peter Professor University of Houston.
6	13:40 14:20	Biological Macromolecular Crystallization on Orbit: Rationale and Result	<u>Invited Speaker 2</u> Edward Snell President and Chief Executive Officer Hauptman-Woodward Medical Research

			Institute (HWI).
7	14:20 15:00	Growth Mechanism of Protein Crystals in Space	<u>Invited Speaker 3</u> Tsukamoto, Katsuo Research Professor Osaka University, Graduate School of Engineering/Tohoku University, Graduate School of Science
	15:00 15:20	Coffee Break	
		Finding fruit of research -From Young Scientists	
	15:20 15:40	<u>Young Scientist 1</u> Structure and Functions of Dipeptidyl peptidase 11 (DPP11) from <i>Porphyrromonas gingivalis</i> .	Yasumitsu Sakamoto Assistant Professor Department of Structural Biology, School of Pharmacy, Iwate Medical University,
	15:40 16:00	<u>Young Scientist 2</u> Structural study on human oxidative nucleotide hydrolase using high-quality crystals	Teruya Nakamura Assistant Professor Graduate School of Pharmaceutical Sciences, Kumamoto University
8	16:00 16:20	<u>Young Scientist 3</u> Crystal structures of the sugar isomerase/epimerase for rare sugar production in complexes with deoxy sugars using the crystals grown in microgravity ~Crystal structures of <i>Pseudomonas cichorii</i> D-tagatose 3-epimerase mutant C66S and	Hiromi Yoshida Associate Professor Kagawa University

		Pseudomonas stutzeri L-rhamnose isomerase in complexes with deoxy sugars~	
9	16:20 16:40	<u>Young Scientist 4</u> Approaches to the high resolution X-ray crystallography using by the microgravity environment	Akifumi Higashiura Assistant Professor Institute for Protein Research, Osaka University
1 0	16:40 17:00	<u>Young Scientist 5</u> Structural and functional study of influenza viruses' RNA polymerase for develop a new medicine	Kanako Sugiyama Researcher Kanagawa Academy of Science and Technology
1 1	17:00 17:20	<u>Young Scientist 6</u> Crystallization of fungal extra-cellular enzymes	Takuya Isida Assistant Professor Department of Biomaterial Sciences, School of Agricultural and Life Sciences, The University of Tokyo
	17:20 17:30	Closing Remark	Yoshihiro Urade Professor/PI International Institute for Integrative Sleep Medicine, University of Tsukuba

\*The results have been achieved by “Space Science of High Quality Protein Crystallization Technology—Research Center Initiative“, the Ministry of Education, Culture, Sports, Science and Technology (MEXT), JAPAN.

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