

Agenda for the 15th Korea-Japan Joint Seminar on Space Environment Utilization Research

DAY 1 - Thursday, September 20, 2018

08:30-09:00	Seminar Registration	
09:00-09:05	Opening and Welcome Remarks	
	Moderator: Dr. Toru SHIMAZU	
09:00-09:05	Spec. Res. Prof., Makoto ASASHIMA, Teikyo University Prof. Emer., The University of Tokyo	
09:05-09:35	Seminar Perspectives	
09:05-09:20	Space environment utilization research in Korea: collaborations with Japanese groups Prof. Inho CHOI, Yonsei University	
09:20-09:35	Perspectives for the 15th Korea-Japan Joint Seminar on Space Environment Utilization Research Spec. Res. Prof., Makoto ASASHIMA, Teikyo University Prof. Emer., The University of Tokyo	
09:35-10:05	Space Program Introduction	
Session Chair: Prof. Makoto ASASHIMA		
09:35-09:50	The Latest Status of Kibo Utilization Strategy and Activities in Japan Ms. Shiho OGAWA, Director, JEM Utilization Center, Human Spaceflight Technology Directorate, JAXA	
09:50-10:05	Past and Future Manned Space Program in Korea – Personal View Dr. Gi-Hyuk CHOI, Director, Convergence Technology Research Center, KARI	
10:05-10:25	Photo Session and Coffee Break	
10:25-12:05	Life Science, Molecular Biology & Biochemical Engineering (I)	
Session Chair: Assoc. Prof. Jun HIDEMA		
10:25-10:45	Reactive oxygen species upregulate expression of muscle atrophy-associated ubiquitin ligase Cbl-b in rat L6 skeletal muscle cells. Dr. Takayuki UCHIDA, Tokushima University	
10:45-11:05	Aging and nervous system development in low and high gravity environments Prof. Jin LEE, Yonsei University	
11:05-11:25	Spaceflight experiments using the nematode <i>C. elegans</i> Prof. Atsushi HIGASHITANI, Tohoku University	
11:25-11:45	Journey to ISS experiment Prof. Chang-Soo LEE, Chungnam National University	
11:45-12:05	Toward the Elucidation of Cell Gravi-Sensing in Space. Prof. Masahiro SOKABE, Nagoya University	
12:05-13:50	Lunch Break	

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13:50-15:10	Life Science, Molecular Biology & Biochemical Engineering (II)	
	Session Chair: Prof. Atsushi HIGASHITANI	
	13:50-14:10	Acute transcriptional control specific to osteoblasts/osteoclasts in medakafish immediately after exposure to microgravity Dr. Masahiro CHATANI, Showa University
	14:10-14:30	Role of AMPK in Autophagosome maturation Prof. Junsoo PARK, Yonsei University
	14:30-14:50	Space Stay of Zebrafish Prof. Atsuko SEHARA, Kyoto University
14:50-15:10	Broadening the Base of Space Experiments Dr. Muneo TAKAOKI, Miina Sciences	
15:10-15:50	Material Science	
	Session Chair: Dr. Gi-Hyuk CHOI	
	15:10-15:30	Development of New Brazing Material from OXYTHERM Project Prof. Joonho LEE, Korea University Dr. Juergen BRILLO, DLR
15:30-15:50	Current status of thermophysical properties measurements by electrostatic levitation furnace (ELF) in ISS Prof. Masahito WATANABE, Gakushuin University	
15:50-16:10	Coffee Break	
16:10-17:30	Combustion	
	Session Chair: Prof. Kaoru MARUTA	
	16:10-16:30	Flame Spread over Electrical Wire with Applied AC Electric Field Prof. Jeong PARK, Pukyong National University
	16:30-16:50	Extinction Limit of Spreading Flame over Electric Wire Insulation Prof. Osamu FUJITA, Hokkaido University
	16:50-17:10	Low-speed counterflow flame experiment under microgravity toward comprehensive combustion limit theory Prof. Kaoru MARUTA, Tohoku University
17:10-17:30	Microgravity Experiments on Combustion Prof. Suk Ho CHUNG, King Abdullah University of Science & Technology	
17:30-17:40	Informing and Adjourn	

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DAY 2 - Friday, September 21, 2018

09:00-09:40	Invited Lecture	Moderator: Dr. Toru SHIMAZU
	09:00-09:20	Invited Lecture 1: Prof. Chris WOLVERTON, Department of Botany and Microbiology, Ohio Wesleyan University
	09:20-09:40	Invited Lecture 2: Prof. Ismail TURKAN, Department of Biology, Faculty of Science, Ege University
09:40-09:45	5 Min Break	
09:45-10:45	Summary and Discussion	Moderator: Dr. Toru SHIMAZU
10:45-11:00	Closing Comments	Co-Chairs: Prof. Inho CHOI Prof. Makoto ASASHIMA
11:00	Adjourn	

[Poster]

Effects of hypergravity on changes in serotonin receptor expression of vestibular nuclei in rats

Prof. Kyu-Sung KIM, Inha University Hospital