# 2021 Yonsei–Nagoya University Research Exchange Meeting on Health Sciences







6th November, 2021
Nagoya University
Online meeting
Nagoya Japan

## Welcome Letter

It is our great pleasure to have the 2021 Yonsei-Nagoya University Research Exchange Meeting on Health Sciences.

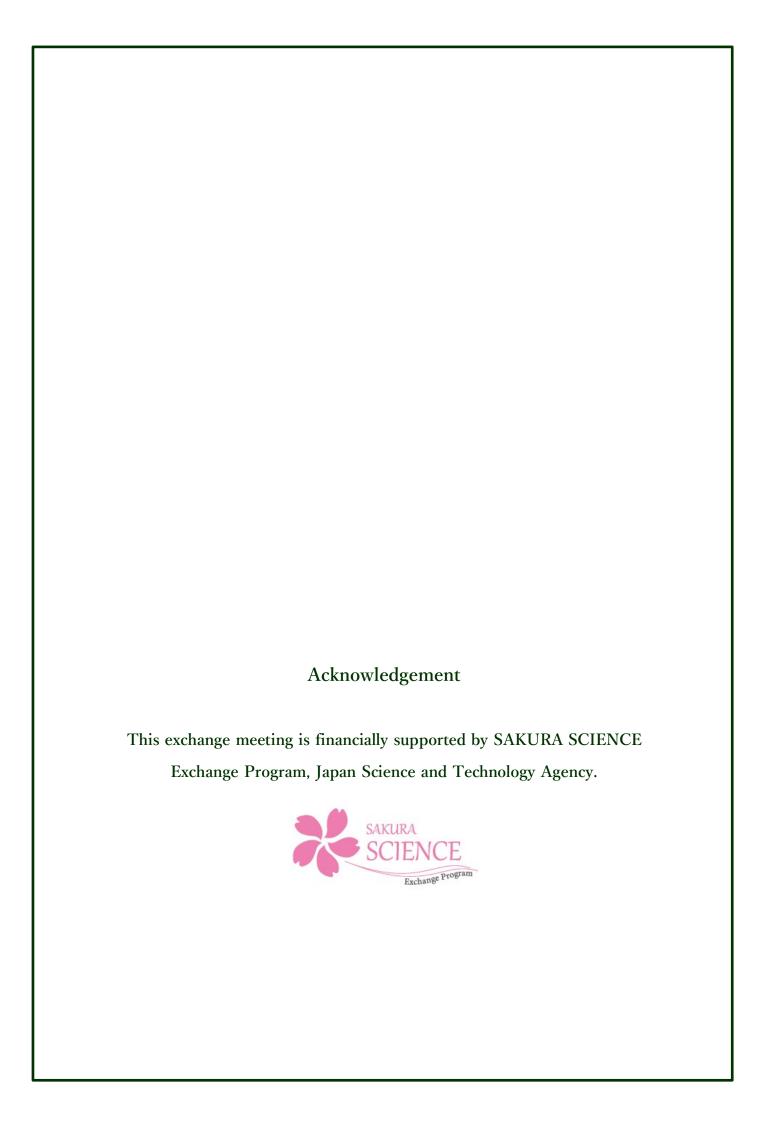
Due to the worldwide spread of the COVID-19, our meeting in 2020 was postponed to this year. However, since the wavy spread of the virus still continued in both countries, and we have the meeting this time by online.

In both countries, there was a lot of difficulty in clinical and educational practices and researches due to COVID-19 in each field since the spring of 2020. Nevertheless, looking at the titles in this meeting, I believe that each graduate student had made efforts and achieved results under difficult circumstances. At the same time, I realized that it is the younger generation who will open up new paths in situations that we have never experienced. This exchange program began in 2009. Our friendship between the two universities has deepened through the meetings for more than 10 years. I feel that it is very important for the students who will lead the next generation to continue this exchange meeting.

Sincerely,

Minoru Hoshiyama Chair, School of Health Sciences, Nagoya University

M. Hashyo



## Schedule

## 6 November (Saturday), 2021 Online meeting by Zoom

Plenary session 13:00-13:30

MC: Professor Midori Asano

Opening remarks: Professor Minoru Hoshiyama

Guest greetings: Professor Kyoung Joung Lee

Department sessions 13:30-(17:00)

Nursing

Radiological Technology

Medical Technology

Physical Therapy

Occupational Therapy

Business meeting  $11:00 \sim 12:00$  (online)

# Program

## Department sessions

## NURSING

13:30	Opening remarks	Prof. Ikumi Honda	
	Guest greetings	Prof. from Yonsei University	
13:40	Opening announcement	Prof. Natsuki Nakayama	
SESSION	N I	Chair: Prof. Chika Oshima	
13:50	Relationship between care recipient caregivers' coping strategies	ats' home care services and family	
		Mika Kawabata	
14:05	A comparative study on the form of trunk in mastectomy patients and healthy middle-aged women		
	, o	Sachiyo Watanabe	
14:20	Delirium knowledge and compassion intensive care unit nurses	on competence on delirium stress in	
		Ji Hye Kim	
14:35	Relationship between clinical nurses' job stress and medication safety performance: mediating effect fatigue		
	L	Se Yeong Park	
14:50	The effect of death attitude and sel unit nurses	The effect of death attitude and self-efficacy on depression of intensive care unit nurses	
		Geunhee Lee	
15:05	Intermission		
15:20	Refresh time		
		Facilitator: Prof. Natsuki Nakayama	

SESSION II		Chair: Prof. Yuki Takahashi	
15:30	How exercise habit changed with in	nfection prevention Covid-19	
		Sota Ookabe	
15:45	Sex differences in defection habits		
		Rika Aizawa	
16:00	Differences in maternal role confidence and satisfaction in the early postpartum by birth experience		
		Akiko Yamada	
16:15	Social support, grit, health status, a	nd work-life balance of nurses	
		Sol Lee	
16:30	Nursing education in Mongolia		
		Dagiitseren Ganbat	
		Zolzaya Bayarsaikhan	
16:45	General comments/discussion		
	Closing announcement"	Prof. Natsuki Nakayama	
16:55	Closing remarks	Prof. Yuko Ikematsu	

### RADIOLOGICAL TECHNOLOGY

SESSION	Chair: Prof. Shuji Koyama	
13:30	Evaluation of dose equivalent by secondary proton therapy	y neutrons generated by head
	1	Yuta Kobayashi
13:50	Imaging and range estimations of prompt during particle-ionirradiation to phantoms	
14:10	Development of a simultaneous imaging sy gamma ray images of Ir-192 source for hig	_
14:30	Intermission	
SESSION	II Chair:	Prof. Yeon Soo Yeom
14:40	Design of a hemispherical detector for large	ge area radiation monitoring Yoon soo Chung
15:00	Feasibility study of integrated C-arm CT/SPECT system for patient dose verification inbrachytherapy using Monte Carlo simulation	
		Saerom Seong
15:20	Development of the shielding evaluation naccelerator facility: A Monte Carlo study	nethodology for heavy ion
		Soo Min Lee
15:40	Intermission	
SESSION	III Chair:	Prof. Yeon Soo Yeom
15:50	Derivation of optimal indicator to monitor Simulation of water molecules	sleep states using Monte Carlo
		Jehyeong Yeon
16:10	Foreign body detection in food using single imaging	e-shot grid-based x-ray dark-field
		Hyunwoo Lim
16:30	Closing remarks Prof. 7	Takako Furukawa

### MEDICAL TECHNOLOGY

13:30	Opening remarks	Prof. Fumihiko Hayakawa
SESSION	I	
13:40	Aberrant expression of CEBP $\alpha$ in cell precursor acute lymphoblastic	
		Koya Odaira
14:00	The phylogenetic analysis of Korea based on the mitochondrial DNA	Chair: Prof. Bo-Young Jeon in Aedes albopictus (Diptera: Culicidae)
		Sezim Monoldorova
14:20	Modification of nicotinamide adeni macrophages	Chair: Prof. Tsutomu Kawabe ine dinucleotide synthesis by diazinon in
		Ko Iwaki
14:40	Genome - wide association studies women	Chair: Prof. Hye Young Lee (GWAS) of atopic march in Korean
		Woojin Choi
15:10	Dietary soy protein ameliorates ins with metabolic syndrome	Chair: Prof. Kohzo Nagata rulin resistance and cardiac injury in rats
		Xixi Cui
15:30	Intermission	

### **SESSION II**

15:40	The role of B cells in enterotoxigenic	Chair: Prof. Ki-Jong Rhee ic Bacteroides fragilis induced colitis and
		Minjeong Jo
16:00	Release of caveolin-1 from cell men	Chair: Prof. Tsutomu Kawabe mbrane induced by quercetin Hikaru Tsuzuki
16:20	Pulsed electromagnetic field potent death	Chair: Prof. Yoon Suk Kim tiates etoposide-induced MCF-7 cell
		Yerang Lee
16:40	An hTERT/Cdk4-immortalized nor is highly resistant to mutant KRAS	Chair: Prof. Mitsuo Sato rmal human bronchial epithelial cell line -induced senescence Nao Muraki
17:00	Chair: Prof. Yong Serk Park  Development of novel cationic lipid nanoparticles for mRNA vaccine Kang  Chan Choi	
17:20	Closing remarks	Prof. Mitsuo Sato

### PHYSICAL THERAPY

13:40	Opening remarks	Prof. Hideshi Sugiura
SESSION	II	Chair: Prof. Woochol Joseph Choi
13:45	The effects of elastic ankle tapings on side-cutting task in young adult males	ankle and knee biomechanics during a
		Jinseok Lim
14:15	ffect of fall characteristics on the severity of hip impact during a fall on the round from standing height	
		Kitaek Lim
14:45	Abnormal synergistic gait mitigation is ankle-knee-hip interlimb humanoid ro	_
15:15	Intermission	
SESSION	I II	Chair: Prof. Satoshi Kametaka
15:30	The relationship between the worn area of the heel outsole and the angle of foot progression in children	
		Daiki Takahashi
16:00	Effects of Ia fiber activity inhibition on reduction of spasticity measured by Rate Dependent Depression of Hoffman' reflex	
		Takuto Hanasaki
16:30	Closing address	Prof. Chunghwi Yi

### OCCUPATIONAL THRAPY

13:40	Opening remarks	Prof. J	Jun-ichi Uemura
SESSION I		Chair	Prof. Ji-Hyuk Park
13:45	Association between COVID-19 and	activitie	es of daily living in older adults Suyeong Bae
14:05	The effect of COVID-19 on the activity/participation of community-dwelling Japanese older adults		
			Kiharu Furuki
14:25	Effects of time use intervention on occupational balance, mental health and quality of life in isolated COVID-19 patients: a randomized controlled study  JaeHyu Jung		
14:45	Intermission		
SESSION II Chair Prof. Aiko Hoshino		Prof. Aiko Hoshino	
15:00	Relationship between activity time-use and community days among community-dwelling patients with schizophrenia		
			Hikari Isaji
15:20	A meta-analysis of the effects of Tailored Activity Program (TAP) for people with dementia		
			Jiin Jeong
15:40	Comparison of studies on nonverbal	activities	s in Japan, UK and Canada Mai Abe
16:00	Closing address	Prof. I	Ickpyo Hong