

# 12<sup>th</sup> International Conference on NAPA 2023

## Nutrition and Physical Activity on Aging, Obesity, and Cancer

### DATE

May 9 (Tue) – May 11 (Thu), 2023

### VENUE

University Cultural Center (Bldg. #73),  
Seoul National University, Seoul, Republic of Korea

### ORGANIZATION

NAPA 2023 Organizing Committee

### ORGANIZERS

**Yong Sang Song, MD, PhD.** (Seoul National University, Korea)  
**Jung Han Yoon Park, PhD.** (Seoul National University, Korea)  
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**Omer Kucuk, MD, PhD.** (Emory University, USA)  
**Young-Joon Surh, PhD.** (Seoul National University, Korea)  
**Yusuke Nakamura, MD, PhD.** (National Institutes of Biomedical Innovation, Japan)



## Program

### May 9 (Tuesday)

09:00 – 09:20	<b>Opening Ceremony</b>	<b>Hong Gwan Seo</b> (National Cancer Center Korea) <b>Sung Nim Han</b> (The Korean Nutrition Society)
<b>Session 1: Cancer Mechanisms I</b>		<b>Chair: Junho Chung, Johji Inazawa</b>
09:20 – 09:40	Deciphering Human B Cell Receptor Repertoire: What Have We Learned?	<b>Junho Chung</b> (Seoul National University)
09:40 – 10:00	Cancer-associated miRNAs and Their Therapeutic Potential	<b>Johji Inazawa</b> (Tokyo Medical and Dental University)
10:00 – 10:20	Personalized Obesity Management with Transcriptomic Assay of Adipose-derived Stem Cells	<b>Yong Sang Song</b> (Seoul National University)
10:20 – 10:40	The Double-edged Sword of Immunogenic Cell Death	<b>Marc Diederich</b> (Seoul National University)
10:40 – 11:00	<b>Coffee Break</b>	
<b>Session 2: Cancer Therapies &amp; Management</b>		<b>Chair: Yong Beom Kim, Hideaki Tsuyoshi</b>
11:00 – 11:20	Nutritional Support for Patients Undergoing Intestinal Surgery	<b>Marc Denis Pocard</b> (Université de Paris)
11:20 – 11:40	Immune Checkpoints in Peritoneal Carcinomatosis: The Role of Human Leukocyte Antigen G (HLA-G)	<b>Massoud Mirshahi</b> (Université de Paris)
11:40 – 12:00	Can We Use Bariatric Surgery as a Neoadjuvant Treatment Before Colon Cancer Surgery in Case of Severe Obesity?	<b>Djellil Issad Dahbia</b> (Université de Paris)
12:00 – 12:20	Diagnostic and Prognostic Value of 18 F-FDG PET/CT or PET/MRI for Revised 2018 FIGO Staging in Patients with Cervical Cancer	<b>Hideaki Tsuyoshi</b> (University of Fukui)
12:20 – 13:50	<b>Luncheon</b>	
<b>Session 3: Innovations for Healthy Aging I</b>		<b>Chair: Bong Joo Lee, Marc Diederich</b>
13:50 – 14:10	Deep Learning Based Personalized Interpretation of Type 2 Diabetes from Large Scale Korean Cohort Data	<b>TaeJin Ahn</b> (Handong University)
14:10 – 14:30	Smart Social Services for Better Well-being	<b>Bong Joo Lee</b> (Seoul National University)
14:30 – 14:50	Emergency Food Standard, Disaster & Space Dietitian Originating from Japan	<b>Nobuyo Tsuboyama-Kasaoka</b> (National Institutes of Biomedical Innovation, Health and Nutrition)
14:50 – 15:10	Mitochondrial DNA Mutation and Disease: Young and Old	<b>Zhenglong Gu</b> (Cornell University)
15:10 – 15:30	<b>Coffee Break</b>	
<b>Session 4: Innovations for Healthy Aging II</b>		<b>Chair: Jiankang Liu, Jae Yong Han</b>
15:30 – 15:50	Mitopigenetics in Aging and Cardiovascular-Metabolic Diseases	<b>Jiankang Liu</b> (Xian Jiaotong University)
15:50 – 16:10	Precise Gene Editing in Rare Diseases	<b>Sangsu Bae</b> (Seoul National University)
16:10 – 16:30	Organ-Talks and Systemic Aging	<b>Baohua Liu</b> (Shenzhen University Medical School)
16:30 – 16:50	Egg Bioreactor for the Production of Proteins in the Genome Edited Chicken	<b>Jae Yong Han</b> (Seoul National University)
16:50 – 17:10	<b>Coffee Break</b>	
<b>Session 5: Big Data Analysis from the National Health Insurance</b>		<b>Chair: Young Eun Lee, Jong Heon Park</b>
17:10 – 17:30	TBD	<b>Jong Heon Park</b> (National Health Insurance Service)
17:30 – 17:40	Risk of Female-specific Cancers According to Obesity and Menopausal Status in 2.7 Million Korean Women: Similar Trends Between Korean and Western Women	<b>Se Ik Kim</b> (Seoul National University)
17:40 – 17:50	Metabolic Syndrome as a Risk Factor of Endometrial Cancer: A Nationwide Population-based Cohort Study of 2.8 Million Women in South Korea	<b>HyunA Jo</b> (Seoul National University)
17:50 – 18:00	Enhanced Susceptibility to Breast Cancer in Korean Women with Elevated Serum Gamma-Glutamyltransferase Levels: A Nationwide Population-Based Cohort Study.	<b>Aeran Seol</b> (Korea University Anam Hospital)

### May 10 (Wednesday)

<b>Session 6: Biologically Active Compounds I</b>		<b>Chair: Jung Han Yoon Park, Young-Joon Surh</b>
09:00 – 09:20	Chemopreventive Effects of DHA and Its Electrophilic Metabolite on UVB-Induced Carcinogenesis	<b>Young-Joon Surh</b> (Seoul National University)
09:20 – 09:40	The Improvement of Black Raspberry on H. pylori Infection and Alzheimer's Disease	<b>Chin-Kun Wang</b> (Chung Shan Medical University)
09:40 – 10:00	Precision Cancer Prevention: 1 + X theory	<b>Zigang Dong</b> (Zhengzhou University)
10:00 – 10:20	Natural Product Based Targeted Therapies in Cancer Prevention and Therapy	<b>Mukerrem Betül Yerer-Aycan</b> (University of Erciyes)
10:20 – 10:40	TBD	<b>Aeson Om</b> (Hanyang University)
10:40 – 11:00	<b>Coffee Break</b>	
<b>Session 7: Cancer Mechanisms II</b>		<b>Chair: Ock Jin Park, Lijun Di</b>
11:00 – 11:20	15-Deoxy- $\Delta^{12,14}$ -Prostaglandin J2 Upregulates the Expression of 15-Hydroxyprostaglandin Dehydrogenase in Breast Cancer	<b>Hye-Kyung Na</b> (Seoul National Women's University)
11:20 – 11:40	Immunotherapy with Small Molecules Targeting the PD-1/PD-L1 Checkpoint	<b>Mee-Hyun Lee</b> (Dongshin University)
11:40 – 12:00	The Role of CtBP in Cancer Progression and Therapy by Serving as a Metabolic Sensor	<b>Lijun Di</b> (University of Macao)
12:00 – 12:20	Therapeutic potential of <i>Bifidobacterium longum</i> RAPO in anti-PD-1 immunotherapy	<b>Sung-Eun Kim</b> (Soekmyung Women's University)
12:20 – 14:00	<b>Luncheon</b>	
<b>Session 8: The Microbiome &amp; Disease</b>		<b>Chair: Sunmin Park, Zhao Wang</b>
14:00 – 14:20	Role of Gut Microbiota in Neurodegenerative Disease	<b>Hongsup Yoon</b> (Handong University)
14:20 – 14:40	Using Pharmaceutical Meta-Analytical Screening (PMAS) for Personalized Microbiome Solution	<b>Josep Ji</b> (HEM Pharma)
14:40 – 15:00	Fat-rich Diet Alleviates Sarcopenia Phenotypes by Restructuring Gut Microbiota	<b>Zhao Wang</b> (Tsinghua University)
15:00 – 15:20	Predicting Personalized Functional Foods Using Big Data Approach	<b>Tatsuya Unno</b> (Chungbuk National University)
15:20 – 15:40	<b>Coffee Break</b>	
<b>Session 9: Artificial Intelligence in Health Research</b>		<b>Chair: Hyunwoo Park, Sanghack Lee</b>
15:40 – 16:00	Network Visualization and Visual Decision Support Systems	<b>Hyunwoo Park</b> (Seoul National University)
16:00 – 16:20	AI-based In Vitro High-Throughput Screening for Drug Discovery	<b>Ji-Hyun Lee</b> (Dr. Noa Biotech)
16:20 – 16:40	Graphical Approach to Causal Inference	<b>Sanghack Lee</b> (Seoul National University)
16:40 – 17:00	Predicting and Exploring Novel Therapeutic Potential of Glucocorticoid Receptor-Antagonizing Phytochemicals with a Machine Learning-integrated Stepwise Method	<b>Hee Yang</b> (Kookmin University)
17:00 – 17:20	<b>Coffee Break</b>	
<b>Session 10: Student Session</b>		<b>Chair: Ji Hyun Yoon, Untack Cho</b>
17:20 – 17:30	Investigation of Tumor Evolution in Recurrent Ovarian Cancer	<b>Untack Cho</b> (Seoul National University)
17:30 – 17:40	Mitochondrial Fission Enhances IL-6-Induced Metastatic Potential in Ovarian Cancer	<b>Juwon Lee</b> (Seoul National University)
17:40 – 17:50	Staphylococcus Aureus-derived Extracellular Vesicles Promote the Metastatic Potential of Ovarian Cancer Cells	<b>Heeyeon kim</b> (Seoul National University)

### May 11 (Thursday)

<b>Session 11: Nutrition in Aging &amp; Cancer I</b>		<b>Chair: Yongsook Park, Seung-kwon Myung</b>
09:00 – 09:20	Impact of Sarcopenia and Frailty in Elderly Patients with Cancer	<b>Rei Ono</b> (National Institutes of Biomedical Innovation, Health and Nutrition)
09:20 – 09:40	Association of 16S rRNA Fecal Microbiome Data with Colorectal Cancer Risk: A Pooled Analysis	<b>Jeongseon Kim</b> (National Cancer Center)
09:40 – 10:00	Effects of Phytochemical Supplements on Dyslipidemia and Cardiovascular Disease: A Review Based on Findings from Systematic Reviews and Meta-analyses	<b>Seung-kwon Myung</b> (National Cancer Center)
10:00 – 10:20	Healthy Eating: What and How to Measure	<b>Ji-Yun Hwang</b> (Sangmyung University)
10:20 – 10:40	<b>Coffee Break</b>	
<b>Session 12: Biologically Active Compounds II</b>		<b>Chair: Chang Chen, Yuri Kim</b>
10:40 – 11:00	Nutritional Genomics Studies Provide New Mechanistic Insights into the Pathogenesis of Zinc Deficiency Anemia	<b>Moon-Suhn Ryu</b> (Yonsei University)
11:00 – 11:20	The Underlying Mechanism of Lycium Barbarum in Strengthening Muscle and Bones and Antiaging	<b>Chang Chen</b> (Kazime Academy of Science)
11:20 – 11:40	Protective Effects of Several Next-Generation Formulations in Colon Cancer: An Investigation of Molecular Mechanisms	<b>Kazim Sahin</b> (Firat University)
11:40 – 12:00	Anti-muscle Wasting Effect of $\beta$ -Carotene in Cancer Cachexia	<b>Yuri Kim</b> (Ewha Womans University)
12:00 – 13:30	<b>Luncheon</b>	
<b>Session 13: Cancer Mechanisms III</b>		<b>Chair: Danny Dhanasekaran, Jewon Jung</b>
13:30 – 13:50	Ethnic Diversity in Ovarian Cancer Metabolism: A Promising Avenue for Targeted Therapies	<b>Danny Dhanasekaran</b> (University of Oklahoma Health Science Center)
13:50 – 14:10	Plasma Gelsolin: Role in Chemoresistance in Ovarian Cancer	<b>Benjamin Tsang</b> (Ottawa University)
14:10 – 14:30	The Inhibition of TRPML1 Can Cause Vulnerability in HRAS-driven Cancer Cells	<b>Jewon Jung</b> (Kyungsoong University)
14:30 – 14:50	Uncovering Metabolic Vulnerabilities in Metastatic Invasive Lobular Breast Cancer	<b>Christina Addison</b> (Ottawa Hospital Research Institute)
14:50 – 15:10	<b>Coffee Break</b>	
<b>Session 14: Nutrition in Aging &amp; Cancer II</b>		<b>Chair: Oran Kwon, Yoshiro Saito</b>
15:10 – 15:30	Excess Antioxidative Protein "Selenoprotein P" as an Exacerbation Factor for Several Diseases – Its Relation to Diabetes and Cancer	<b>Yoshiro Saito</b> (Tohoku University)
15:30 – 15:50	Preventive Effects of Dietary Compounds in Cruciferous Vegetables Against Obesity and Atherosclerosis	<b>Jung-Mi Yun</b> (Chonnam National University)
15:50 – 16:10	Ergosterol Promotes Neurite Outgrowth of Wild-type Neurons (Neuro-2a) and Amyloid-beta Precursor Protein-overexpressed Neurons (Neuro-2a-APPwt/APPswe) through the Involvement of Teneurin-4/ ERKs/ GAP-43 Signaling	<b>Tewin Tecomnno</b> (Chulalongkorn University)
16:10 – 16:30	A 12-Week Nutrition and Physical Activity Program Improves Toe Strength Among Elderly Day Care Center Users in Korea: A Cluster Randomized Controlled Trial	<b>Sohyun Park</b> (Hallym University)
16:30 – 16:40	<b>Closing Ceremony</b>	



## Registration

**Deadline for Pre-Registration : May 8, 2023**

Please join first as a new NAPA member (free) on www.napasociety.org

Category	Type	Academic/Medical Professional	Trainee (Resident, Post-doc, technician)	Graduate/Undergraduate Student
The 12th NAPA 2023	Non NAPA Member	USD 230 KRW 300,000	USD 155 KRW 200,000	USD 100 KRW 150,000
The 12th NAPA 2023 NAPA society member	NAPA Member	USD 155 KRW 200,000	USD 80 KRW 100,000	USD 80 KRW 100,000

**Deadline for abstract submission: April 27, 2023**

[Go to Pre-registration](#)

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