

마이크로바이옴 연구 국제 심포지엄 개최

- 질병청 국립보건연구원, “병원기반 인간 마이크로바이옴 연구개발 사업” 성과 교류
- 국내외 마이크로바이옴 분야 전문가 연구협력체계 구축 및 최신 연구동향 논의
- 질병관리청-대한미생물학회 국제 심포지엄 공동 주관

질병관리청(청장 지영미) 국립보건연구원(원장 박현영)은 '23년 10월 11일(수), “인체질환 극복 마이크로바이옴 연구동향”을 주제로 하는 국제 심포지엄을 대한미생물학회와 공동개최한다고 밝혔다.

※ 마이크로바이옴 : 몸속에 사는 미생물 생태계(미생물(microbe)와 생태계(biome)의 합성어)

이번 국제 심포지엄은 보건복지부와 질병관리청이 협업과제로 수행하는 “병원기반 인간 마이크로바이옴 연구개발사업”의 일환으로 개최되며, 국내·외 전문가들과 마이크로바이옴 연구의 최신 동향을 공유하고 긴밀한 연구 협력체계의 구축을 목적으로 한다.

본 심포지엄에서는 정부 부처의 마이크로바이옴 분야 관련 업무 내용과 보건복지부와 질병관리청에서 협업사업으로 추진 중인 과제 수행 등이 발표되며, 이를 대한미생물학회 소속 전문가 및 관련 참석자들과 논의할 예정이다.

지영미 질병관리청장은 “마이크로바이옴 분야에 대한 연구개발사업의 수행 결과 및 성과를 국내 보건의료계, 학계, 연구 및 산업계 관계자들에게 제공함으로써, 향후 난치성 인체질환의 진단·치료제 개발을 위한 국내외 연구협력체계가 마련되길 기대한다”고 전했다.

<붙임> 인체질환 극복 마이크로바이옴 국제 심포지엄 개요

담당 부서	감염병연구센터	책임자	과 장	이광준 (043-913-4850)
<총괄>	인수공통감염연구과	담당자	연구관	정상운 (043-913-4852)

□ 학술대회 개요

- **(명칭)** 질병관리청-대한미생물학회 공동 국제 심포지엄
- 제144차 대한미생물학회 추계학술대회 동시 개최
- * **(주관)** 질병관리청 - 대한미생물학회 공동
- **(일시)** '23. 10. 11.(수) ~ 13.(금)
- **(장소)** 메종글래드제주 호텔
- **(참석)** 대한미생물학회장 등 임원진, 외부연자 및 마이크로바이옴 분야 산,학,병,연 전문가, 질병관리청 관계자 등 약 150명 참석

□ 주요 내용 및 일정

- 정부 부처별 마이크로바이옴 연구 기획 현황 (10.11. 13:15 ~ 15:00)
- 질병청, 식약처, 농림부, 산자부 관련 정책 발표
- 인간질병 극복을 위한 마이크로바이옴 연구 (10.11. 15:15 ~ 17:50)
- 질병청 수행 마이크로바이옴 과제 관련 (6개 분야)
- 병원기반 인간 마이크로바이옴 R&D 프로젝트 I/II (10.12. 9:00 ~ 11:45)
- 복지부 수행 마이크로바이옴 과제 관련 (6개 분야)

□ 첨부

- 대한미생물학회 프로그램

참 고

대한미생물학회 프로그램

2023년 KSM-KDCA Joint International Conference

10월 11일(수) 프로그램 10월 12일(목) 프로그램

October 11(Wed) / MAISON GLAD JEJU

09:00- Registration

S1. Graduate Student Presentation

Chair	Jung Mogg Kim	Hanyang University College of Medicine	
10:00-10:15	Seunghyeok Bang	School of Medicine, Kyungpook National University	The iron-storing AcFerritin from <i>Acanthamoeba castellanii</i> protect DNA structure during its encystation
10:15-10:30	Asma Rafique	College of Medicine, Jeju National University	Prevention of colon carcinogenesis through Toll-like receptor 13-mediated signaling
10:30-10:45	Su Yeon Kang	HANYANG University Graduate School of Biomedical Science and Engineering	Fatal outcome of Severe Fever With Thrombocytopenia Syndrome (SFTS) and Severe and Critical COVID-19 is associated with the hyperproduction of IL-10 and IL-6 and the low production of TGF- β
10:45-11:00	Young Jae Kim	College of Medicine, Chungnam National University	Xenophagy-inducing chemicals and anti-mycobacterial responses
11:00-11:15	Hae-mi, Kim	Jeonbuk National University Medical School	The evaluation of the prophylactic efficacy of the gut microbe vaccine against influenza
11:15-11:30	Kyeongseok Jeon	Seoul National University College of Medicine	A natural variation in the RNA polymerase of Severe Fever with Thrombocytopenia Syndrome Virus enhances viral replication and in vivo virulence

11:30-13:00 Lunch and Poster Presentation

13:00-13:15 **Opening remarks by Chairman Wonyong Kim and Congratulatory remarks by Young-Mi Ji, Director of the Korea Disease Control and Prevention Agency**

S2. Microbiome Research Planning Status by Government Department

Chair	Gyung Tae Chung	Korea Disease Control and Prevention Agency	
13:15-13:40	Kwang Jun Lee	Korea Disease Control and Prevention Agency	Hospital-based human microbiome R&D project
13:40-14:05	Jin Wook Kang	Ministry of Food and Drug Safety	Regulatory Considerations for Development of Live Biotherapeutic Products as Drugs
14:05-14:30	Ju-Hoon Lee	Seoul National University	Microbiome: Innovation of Agricultural Life Sciences
14:30-14:45	Hyung Chul Kim	Korea Planning & Evaluation Institute of Industrial Technology	Current Support program of human microbiome products by the MOTIE

14:45-15:00 Coffee break

S3-1. Microbiome Commercialization / Convention Hall A

Chair	Tae-Kwang Oh Yoon-Won Kim	Korea Research Institute of Bioscience and Biotechnology College of Medicine, Hallym University	
15:00-15:25	Jungki Kwak	LOTTE R&D Center	Trends and vision of Researches in Ingredients of Microbiome regulation novel functional food
15:25-15:50	Seokmin Yoon	LOTTE R&D Center	Anti-obesity effects of <i>Lactiplantibacillus plantarum</i> LRCC5282-postbiotics based on microbiome regulation
15:50-16:15	Jungsook Hann	Samyang Corp. Food R&D	Why Prebiotics?: Functionalities of various prebiotics
16:15-16:30	Coffee break		
16:30-16:55	Joong Su Lee	Amicogen Inc. Healthcare&Nutrition SBU, Healthcare R&D center	N-Acetylglucosamine and its dimer ameliorate inflammation in murine colitis by strengthening the gut barrier function
16:55-17:20	Sunghee Lee	ILDONG Pharmaceutical	Microbiome Therapeutics R&D Strategies in the Pharmaceutical Industry
17:20-17:45	Jung-Sook Lee	Korea Research Institute of Bioscience and Biotechnology (KRIBB)	Korean Gut Microbiome Bank (KGMB)

S3-2 Research on Microbiome to Overcome Human Diseases / Convention Hall B

Chair	Mina Rho	Hanyang University	
15:20-15:45	Dokyun Kim	Department of Laboratory Medicine, Yonsei University College of Medicine	Microbiome analysis quality control project and mock community
15:45-16:10	Byeol-A Yoon	Department of Neurology, Dong-A University	Gut Microbiome and Guillain-Barré Syndrome
16:10-16:35	Sang Sun Yoon	Yonsei University College of Medicine	Molecule-First Approaches in Microbiome Therapeutics
16:35-17:00	Jin Park	Jeonbuk National University Medical School	Exploring human skin microbiome: fundamentals and pitfalls
17:00-17:25	Patrick Lee	School of Energy and Environment City University of Hong Kong	Air Pollutants Altered the Composition and Physiology of Microbiomes Human Skin
17:25-17:50	Junhyung Park	3BIGS CO.,LTD	Construction of Database & Platform for Global Human Disease-Microbiome

October 12(Thu) / MAISON GLAD JEJU

S4 Hospital-Based Human Microbiome R&D Project I

Chair	Jun Yong Chul	Yonsei University College of Medicine
09:00-09:25	Dong-Woo Lee	Department of Biotechnology, Yonsei University Genome-wide multi-omics analysis reveals the nutrient-dependent metabolic features of mucin-degrading gut bacteria
09:25-09:50	Bong-Soo Kim	Department of Life Science, Hallym University Microbiome studies on allergic diseases
09:50-10:15	Jeong Hwan Shin	Inje University Busan Paik Hospital Diagnosis of Infectious Diseases: From microscope to NGS

10:15-10:30 Coffee break

S5 Hospital-Based Human Microbiome R&D Project II

Chair	Jae-Seok Kim	Hallym University College of Medicine Department of Laboratory Medicine
10:30-10:55	Hye-Ryun Kang	Seoul National University Medical Research Center Exploring the Potential of the Lung Microbiome as an Anti-Asthmatic Approach
10:55-11:20	In-cheol Seo	School of Medicine, Kyungpook National University Establishment of female urogenital microbiome data platform and comparative clinical research: practical considerations for large-scale vaginal microbiome studies
11:20-11:45	Chang Kyun Lee	Kyung Hee University College of Medicine Gut Microbiome Studies Using a Hospital-Based Cohort in Korean Patients with Inflammatory Bowel Disease

Luncheon Symposium

12:10-13:00	Kwon Yong-ik	Korea Research Institute of Bioscience and Biotechnology Legal System for Safety of LMO R&D
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13:00-13:10 Coffee break

S6. Plenary Lecture

Chair	Eun-Kyeong Jo	College of Medicine, Chungnam National University
13:10-13:50	Tamotsu YOSHIMORI	Graduate School of Medicine, Osaka University, Japan Autophagy, The Guardian of Cells Against Infection And Aging

13:50-14:00 Coffee break

S7. Microbial Pathogenesis

Chair	Minhye Shin	Inha University College of Medicine
14:00-14:25	Shelley M. Payne	Department of Molecular Biosciences, University of Texas at Austin, USA Vibrio cholerae: Adaptation to Life in the Host
14:25-14:50	Heekuk Park	Department of Medicine, Columbia University Irving Medical Center, USA The success of fecal microbial transplantation in Clostridium difficile infection correlates with bacteriophage relative abundance in the donor: a retrospective cohort study
14:50-15:15	Van Phan Le	College of Veterinary Medicine, Vietnam National University of Agriculture, Vietnam AFRICAN SWINE FEVER OUTBREAKS IN VIETNAM DURING THE 2019-2022 PERIOD
15:15-15:40	Hyun Park	Department of Infection Biology, School of Medicine, Wonkwang University Development of rapid fluorescence immunodiagnosis system for respiratory virus

15:40-15:50 Coffee break

S8. Young Scientist Presentation

Chair	Woo-Kon Lee	Gyeongsang National University College of Medicine
15:50-16:15	Sang Joon Lee	Department of Biological Science, UNIST Discovery of innate immune sensors in viral infections
16:15-16:40	Kee Woong Kwon	College of Medicine, Gyeongsang National University Importance of adjuvant selection in tuberculosis vaccine development
16:40-17:05	Hanseul Oh	College of Veterinary Medicine Chungbuk National University Identification of pathogenic mechanisms of human respiratory viruses through non-human primate models

17:05-17:30 Korean Microbiological Society General Assembly

17:30-18:00 Awards Ceremony/Gift Recommendation

October 13(Fri)

S9. Medical Research Council meeting