YONSEI UNIVERSITY

21st Anniversary
The Airway Mucus Institute

The 21st Research Symposium on Human Natural Defense System in conjunction with the 3rd Symposium of the Yonsei Human Microbiome Center

October 18 (Sat), 2025

NEWILHAN Memorial Hall / Avison BioMedical Research Center (ABMRC) / Severance Hospital / Yonsei University College of Medicine

08:50	Opening remarks	김창훈 (연세대)
제3회 연세휴먼마이크로바이옴센터 심포지엄		
Session 1. Gut microbiome–epithelia–immune crosstalk and systemic disease		좌장: 윤상선 (연세대 미생물)
09:00 - 09:25	The role of microbe–epithelia–immune system interplay in maintaining gut homeostasis	장경구 (연세대 해부학)
09:25 - 09:50	A hierarchy of intestinal antigens instructs the CD4+T cell receptor repertoire	이재우 (아주대 생명과학)
09:50 - 10:15	High-salt diet, gut dysbiosis, and glioma progression	이흥규 (KAIST 생명과학)
10:15 - 10:35	*Coffee break*	
Session 2. Respiratory microbiota and immune regulation: From mechanism to medicine		좌장: 김창훈 (연세대)
10:35 - 11:00	In vitro modeling of host–microbiome ecosystem	신우정 (KAIST 바이오및뇌공학)
11:00 - 11:25	GPR43-mediated regulation of eosinophils in allergic airway inflammation	김유미 (KAIST 의과학대학원)
11:25 - 11:50	Targeting microbiota for respiratory health: From mechanism to medicine	이세원 (울산대 호흡기내과)
11:50 - 13:30	*Lunch*	
제21회 생체방어 심포지엄		
Session 3. Recent updates on multiomics analysis		좌장: 이원재 (서울대 생명과학)
13:30 - 13:55	Dissecting disease mechanisms through single-cell epigenomics: Identification of key cell types and target genes	박지환 (GIST 생명과학)
13:55 - 14:20	Recent updates on spatial transcriptomics	박종은 (KAIST 의과학대학원)
14:20 - 14:45	Precision medicine: multiomics and clinical data	황대희 (서울대 자연과학대)
14:45 - 15:05	*Coffee break*	
Session 4. Innovative translational research on allergic and inflammatory diseases		좌장: 조형주 (연세대)
15:05 - 15:30	Therapeutic insights for targeting allergic airway disease via cell-type specific approaches	조형주 (연세대)
15:30 - 15:55	Gut-to-lung IgA plasma cell migration drives a mucosal immune trade-off in allergic asthma	박한기 (경북대 알레르기내과)
15:55 - 16:20	Skin-resident regulatory T cells in allergen-specific immunotherapy	박창욱 (연세대 피부과)
16:30	Closing remarks	김창훈 (연세대)

Supported by

The Airway Mucus Institute (TAMI)

Yonsei Human Microbiome Center

Korean Rhinologic Society

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