



The 11th Research Symposium on Human Natural Defense System

in conjunction with Rhinology Research Forum in Asia (RReFA) Annual Meeting 2015
and Annual Meeting of the Center for Cell Membrane Transport

“Epithelia and Human Natural Defense System”

October 17 (Sat) – 18 (Sun), 2015

Oct 17th : Lecture Room 337, Central Administration Building

Oct 18th : NEWILHAN Memorial Hall, Avison BioMedical Research Center (ABMRC) Yonsei University College of Medicine

Rhinology Research Forum in Asia (RReFA) Annual Meeting 2015

“Young Researchers’ Forum”

October 17th (Sat), 2015

14:00	Welcome Address / Joo-Heon Yoon (Yonsei Univ., Korea)
[Session I]	Chair: Kenji Kondo (Tokyo Univ., Japan)
14:10-14:20	Clock gene expression in normal and allergic nasal mucosa, displaying circadian rhythm and their contribution to nasal cycle / Ha Kyun Kim (Korea Univ., Korea)
14:20-14:30	Role of viral miRNA in Epstein-Barr virus positive malignant tumor cells / Hisashi Iizasa (Shimane Univ., Japan)
14:30-14:40	Sestrin2 suppresses NLRP3 inflammasome activation by inducing mitophagy via increased mitochondrial priming and autophagic activity / Min-Ji Kim (Yonsei Univ., Korea)
14:40-14:50	Epithelial cell-derived cytokines contribute to the pathophysiology of eosinophilic chronic rhinosinusitis / Hideaki Kouzaki (Shiga Univ., Japan)
14:50-15:00	Cyclic AMP in dendritic cells induce and regulate Th2 immunity and allergic asthma: Implication for human allergic rhinitis / Tae Hoon Kim (Korea Univ., Korea)
15:00-15:10	MMP13-containing exosomes promote nasopharyngeal carcinoma metastasis / Ying Shan (Nantong Univ., China)
15:10-15:20	Air-liquid interface culture of nasal epithelial cells and its applications / Yi-Tsen Lin (National Taiwan Univ., Taiwan)
15:20-15:30	Detection of exotoxins and biofilms of <i>Staphylococcus aureus</i> and coagulase-negative staphylococci in the nose of patients with chronic rhinosinusitis / Takenori Haruna (Okayama Univ., Japan)
15:30-15:40	Abnormal expression and distribution patterns of Ki67 in remodeled epithelium from nasal polyps / Li Zhao (Shandong Univ., China)
15:40-16:00	Coffee Break
[Session II]	Chair: Chang-Hoon Kim (Yonsei Univ., Korea)
16:00-16:10	Histological analysis and subtyping of nasal polyposis - what is the clinical significance? / Chew Lip Ng (National Univ. of Singapore, Singapore)
16:10-16:20	Role of group 2 innate lymphoid cells (ILC2s) and IL-33 in the pathogenesis of eosinophilic chronic rhinosinusitis / Ichiro Tojima (Shiga Univ., Japan)
16:20-16:30	Doxycycline inhibits TGF- β 1-induced extracellular matrix production in nasal polyp-derived fibroblasts / Jae-Min Shin (Korea Univ., Korea)
16:30-16:40	Association of VDR and CYP2R1 polymorphisms with persistent allergic rhinitis in a Han Chinese population / Huiqin Tian (Nanjing Medical Univ., China)
16:40-16:50	Role of HMGB1 in upper airway inflammation / Hyun Jin Min (Chung Ang Univ., Korea)
16:50-17:00	Mesenchymal stem cell-derived microvesicles facilitate nasopharyngeal carcinoma progression through FGF19/FGFR4 signaling / Shi Si (Nantong Univ., China)
17:00-17:10	Mouse olfactory sensory neurons - primary cell culture / Hyo Jin Chung (Yonsei Univ., Korea)
17:10-17:20	Flexible nasoendoscopy decontamination - a comparison between Rapicide and Tristel wipes, a prospective cohort study / YJ. Gan (National Univ. of Singapore, Singapore)
17:20-17:30	Clinical and biological significance of HAX-1 overexpression in nasopharyngeal carcinoma / You Bo (Nantong Univ., China)
17:30-17:40	Effect of Prostaglandin D2 on VEGF release by nasal polyp fibroblasts / Kengo Kanai (Okayama Univ., Japan)
17:40-	Photo and Dinner

Rhinology Research Forum in Asia (RReFA) Annual Meeting 2015

October 18th (Sun), 2015

08:30-08:35	Welcome Address / Joo-Heon Yoon (Yonsei Univ., Korea)
08:35-08:40	Congratulatory Address Hideyuki Kawauchi (Shimane Univ., Japan) De-Yun Wang (National Univ. of Singapore, Singapore)
[Session III]	Chair: Takeshi Shimizu (Shiga Univ., Japan)
08:40-09:00	Role of redox signaling and proprotein convertase in airway innate immunity / Joo-Heon Yoon (Yonsei Univ., Korea)
09:00-09:20	On-going research projects and future goal at mucosal linings of nasopharyngeal cleft / Hideyuki Kawauchi (Shimane Univ., Japan)
09:20-09:40	Nasal stem cell research: understanding the role of nasal epithelium in common nasal diseases and their impacts on future development of cell therapy / De-Yun Wang (National Univ. of Singapore, Singapore)
	Chair: Joo-Heon Yoon (Yonsei Univ., Korea)
09:40-10:10	Invited Lecture Mitochondrial dysfunction: Key regulator of metabolic dysfunction dependent inflammation and cell death / Augustine M.K. Choi (Weill Cornell Medical College, USA)
10:10-10:30	Coffee Break
[Session IV]	Chair: Te-Huei Yeh (National Taiwan Univ., Taiwan)
10:30-10:50	The goal of our research and methodologies / Sang-Hag Lee (Korea Univ., Korea)
10:50-11:10	Our research interests and pathogenesis of eosinophilic chronic rhinosinusitis / Takeshi Shimizu (Shiga Univ., Japan)
11:10-11:30	Searching ‘epimmunome’ of nasal epithelial cells / Te-Huei Yeh (National Taiwan Univ., Taiwan)
11:30-11:50	Crosstalk of <i>Staphylococcus aureus</i> -derived components and COX metabolism in the pathogenesis of CRS / Mitsuhiro Okano (Okayama Univ., Japan)
11:50-12:10	Cell dynamics in the olfactory neuroepithelium after injury: The effects of sensory deprivation and caloric restriction / Kenji Kondo (Tokyo Univ., Japan)
	Chair: Chang-Hoon Kim (Yonsei Univ., Korea)
12:10-12:40	Invited Lecture Neuronal connectivity and plasticity in the olfactory system / Qizhi Gong (UC Davis, USA)
12:40-13:40	Photo and Lunch

Annual Meeting of the Center for Cell Membrane Transport

[Session V]	Chair: Kyung Hwan Kim (Yonsei Univ., Korea)
13:40-14:10	Invited Lecture Intracellular Cl ⁻ as a signaling ion / Shmuel Muallem (NIH, USA)
14:10-14:40	Mechano/thermosensation in human periodontal ligament cells / Dong Min Shin (Yonsei Univ., Korea)
14:40-15:10	Rise and fall of Kir2.2 current by TLR4 signaling in human monocytes / Sung Joon Kim (Seoul National Univ., Korea)
15:10-15:40	Invited Lecture Novel diuretics targeting renal tubule urea and chloride transporters / Alan Verkman (UCSF, USA)
15:40-16:00	Coffee Break
[Session VI]	Chair: Shmuel Muallem (NIH, USA)
16:00-16:30	Invited Lecture Molecular identity and properties of the volume-regulated anion channel VRAC / Thomas J. Jentsch (FMP MDC, Germany)
16:30-17:00	Channel-mediated gliotransmitter release through Best / C. Justin Lee (KIST, Korea)
17:00-17:30	Unconventional secretion of CFTR and pendrin / Min Goo Lee (Yonsei Univ., Korea)
17:30	Closing Remark / Min Goo Lee (Yonsei Univ., Korea)

Supported by

Research Center for Human Natural Defense System (RCHNDS)
NCRI Center for Cell Membrane Transport
Rhinology Research Forum in Asia (RReFA)
The Airway Mucus Institute (TAMI)
EYE & ENT Hospital
Yonsei University College of Medicine, Seoul, Korea