

The Workshop on Eosinophils in Allergy and Related Diseases 2023

2023 Chairperson **Hideaki Kouzaki**

Department of Otorhinolaryngology-Head and Neck Surgery,
Shiga University of Medical Science

Preliminary program

November 23, 2023 (Thursday) 10:00-17:00

(Board meeting starts at 9:20)

office Department of Respiratory medicine,
Saitama Medical University
<http://www.sec-information.net/eosinophils>

Preliminary program

Each subject: Presentation 6 min, Discussion 3 min

9:20-9:50 Board of Members meeting
9:55-10:00 Opening Remarks
Hideaki Kouzaki

2023 Chairperson/Department of Otolaryngology-Head and Neck Surgery, Shiga University of Medical Science

Session 1 Analyses of Disease Models

Chairperson : Yoshinori Yamada Department of Pediatrics, Tokai University School of Medicine

- 10:00-10:09 1-1 Staphylococcus aureus δ -toxin present on skin promotes the development of food allergy
Hiromichi Yamada Department of Pediatrics and Adolescent Medicine, Juntendo University Graduate School of Medicine
- 10:09-10:18 1-2 Mouse eosinophil-associated ribonuclease-2 (mEAR2) promotes airway hyperresponsiveness and lung inflammation in the house dust mite induced allergic asthma model.
Linh Nguyen Manh Department of Otolaryngology, Head and Neck Surgery, Kansai Medical University
- 10:18-10:27 1-3 Biological important role of increased sphingomyelin expression in persistent allergic inflammation
Kaoru Toshima Center for Medical Education, Faculty of Medicine, Tohoku medical and pharmaceutical university

Session 2 Eosinophils

Chairperson: Masahiko Kato Department of Pediatrics, Tokai University School of Medicine/Tokai University Hachioji Hospital

- 10:27-10:36 2-1 Analysis of ETosis and protein composition of Extracellular traps between leukocytes
Hiroki Tomizawa Department of General Internal Medicine and Clinical Laboratory Medicine, Akita University Graduate School of Medicine
- 10:36-10:45 2-2 Transcriptome analysis reveals inflammatory amplification roles in MDP stimulated human eosinophil
Hisashi Sasaki Division of Pulmonary Medicine, Department of Medicine, Keio University School of Medicine
- 10:45-10:54 2-3 Tenascin-C upregulates the effector functions of eosinophils
Hidetoshi Iemura Department of Respiratory Medicine, Saitama Medical University

10:55-11:15 Mini Lecture

Chairperson : Takao Fujisawa Allergy Center, Mie National Hospital

Natural history of eosinophil-derived neurotoxin levels and the onset of allergic airway disease in preschool children

Chang-Keun Kim Asthma & Allergy Center, Department of Pediatrics, Inje University Sanggye Paik Hospital

Session 3 Inflammatory diseases and their control

Chairperson : Shigeharu Ueki Department of General Internal Medicine and Clinical Laboratory Medicine, Akita University of Graduate School of Medicine

- 11:17-11:26 3-1 Intranasal administration of ceramide liposome suppresses allergic rhinitis by targeting CD300f
Takuma Ide Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine
- 11:26-11:35 3-2 Effects of topical anti-allergy drugs on a murine model of Th17 cell-mediated allergic skin inflammation
Yukiko Tao Research Institute of Radiation Biology and Medicine, Hiroshima University
- 11:35-11:44 3-3 Butyrate suppresses type 2 inflammation in eosinophilic sinusitis
Masatomo Toyama Department of Otorhinolaryngology and Head and Neck Surgery, Ryuky University Graduate School of Medicine
- 11:44-11:53 3-4 Role of interleukin 5-induced eosinophils in interleukin 33-triggered airway inflammation in mice
Hitomi Tanaka Department of Respiratory Medicine, the Kawasaki Medical School

12:00-12:50 Educational Seminar 1

Chairperson : Makoto Nagata Department of Respiratory Medicine/Department of Allergy Center, Saitama Medical University

Treatment strategies for eosinophil-dominant severe asthma

Kazuyuki Nakagome Department of Respiratory Medicine/Department of Allergy Center, Saitama Medical University

(12:50-13:10 Administrative communication • Break)

Session 4 Treatment Resistance, Prognostic Factors

Chairperson : Masaki Katsunori Division of Pulmonary Medicine, Department of Medicine, Keio University, School of Medicine

- 13:10-13:19 4-1 Predictors of remission and relapse in allergic bronchopulmonary aspergillosis
Jun Tanaka Division of Pulmonary Medicine, Department of Medicine Tokai University School of Medicine
- 13:19-13:28 4-2 Investigation of therapeutic efficacy of Benralizumab in a humanized mice model of steroid-resistant asthma.
Shiho Yamada Division of Respiratory Medicine, Nihon University School of Medicine
- 13:28-13:37 4-3 Sublingual immunotherapy decreases the avidity of antigen-specific IgE
Keigo Nakamura Department of Otorhinolaryngology-Head and Neck Surgery, Shiga University of Medical Science

13:40-14:30 Educational Seminar 2

Chairperson : Hiroyuki Nagase Division of Respiratory Medicine and Allergology, Department of Medicine, Teikyo University School of Medicine

Current status and perspectives of eosinophil research using multilayer omics analysis

Jun Miyata Division of Pulmonary Medicine, Department of Medicine, Keio University, School of Medicine

(14:30-14:40 Break)

Session 5 Role in Disease Pathogenesis

Chairperson : Yutaka Nakamura Tohoku Medical and Pharmaceutical University

- 14:40-14:49 5-1 Plasma IL-36 subfamily levels impact on clinical manifestations of asthma
Yuki Hoshino Department of Respiratory Medicine, Saitama Medical University
- 14:49-14:58 5-2 Examination of the Functional Significance of TGF- β ; in Eosinophilic Diseases
Yo Otsu Division of Pulmonary Medicine, Department of Medicine, Keio University, School of Medicine
- 14:58-15:07 5-3 Role of basal cells in nasal polyp epithelium in the pathophysiology of eosinophilic chronic rhinosinusitis (eCRS).
Kento Kawakita Department of Otolaryngology and Head and Neck Surgery, Shiga University of Medical Science

Session 6 Role of eosinophils, Case Reports

Chairperson : Tomoyuki Soma Department of Respiratory Medicine/Allergy Center, Saitama Medical University

- 15:07-15:16 6-1 Analysis of lymphocyte fractions in bronchoalveolar lavage fluid in diffuse lung disease including chronic eosinophilic pneumonia
Sonoko Harada Department of Respiratory Medicine, Juntendo University Faculty of Medicine
- 15:16-15:25 6-2 Pretreatment eosinophil counts as a predictive biomarker in non-small cell lung cancer patients treated with immune checkpoint inhibitors
Eiji Takeuchi Department of Respiratory Medicine, National Hospital Organization Kochi Hospital

- 15:25-15:34 6-3 Long-term treatment of eosinophilic duodenitis with ulceration.
Mariko Shimizu Department of Allergy and Rheumatology, Gunma Children's
Medical Center
- 15:34-15:43 6-4 Consideration obtained from the sustained effect on airway inflammation in a severe asthma
case which a single dose of tezepelumab was very effective
Naoto Watanabe Non Profit Organization Tokyo Allergy and Respiratory Disease
Research Institute / Department of Allergy internal medicine, Seirei
Yokohama Hospital

15:50-16:50 **Special Lecture**

Chairperson : Hideaki Kouzaki Department of Otorhinolaryngology-Head and Neck Surgery, Shiga University of
Medical Science

**Measurement of IgE-antigen binding-avidity for improvement of the
accuracy to predict the onset of allergies and anaphylaxis**

Hiroshi Kido Division of Enzyme Chemistry, Institute for Enzyme Research, Tokushima University

- 16:50-16:55 Closing Remarks
Shigeharu Ueki 2024 Chairperson/Department of General Internal Medicine and Clinical Laboratory
Medicine, Akita University of Graduate School of Medicine