

The Workshop on Eosinophils in Allergy and Related Diseases 2024

2024 Chairperson **Shigeharu Ueki**

Department of General Internal Medicine and Clinical Laboratory
Medicine, Akita University Graduate School of Medicine

Preliminary program

December 21, 2024 (Saturday) 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

Shigeharu Ueki 2024 Chairperson/ Department of General Internal Medicine and Clinical Laboratory Medicine, Akita University Graduate School of Medicine

Session 1 Analyses of Disease Models

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

10:00-10:09 1-1 Neuronal substance P-driven MRGPRX2-dependent mast cell degranulation products differentially promote vascular permeability

Ayako Kaitani Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine

10:09-10:18 1-2 Investigation of peripheral blood allergen response to cedar pollen antigens treated with electrically charged water particles

Yuki Sonoda Department of Otorhinolaryngology, Head and Neck Surgery, University of Fukui

10:18-10:27 1-3 Establishment of murine models to identify IgE cross-reactive antigens in food allergies

Risa Yamamoto Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine

10:27-10:36 1-4 Pollen shells promote allergic conjunctivitis via the trigeminal nerve-mediated goblet cell-associated antigen passages

Meiko Kimura Atopy (Allergy) Research Center, Juntendo University

Session 2 Eosinophils and their functions

Chairperson : Hiroyuki Nagase Department of Internal Medicine, Teikyo University School of Medicine

10:36-10:45 2-1 Mechanism of eosinophil activation by the IL-33-oxidized LDL-complement pathway

Emiko Matsuyama Department of Respiratory Medicine, Faculty of Medicine, Keio University

10:45-10:54 2-2 Comparison of heparins in physical properties of eosinophilic mucus

Misaki Arima Department of General Internal Medicine and Clinical Laboratory Medicine, Akita University Graduate School of Medicine

10:54-11:03 2-3 Mechanism of Fatty Acid Metabolism Regulation in Eosinophils by Vitamin D3 Metabolites

Ryuta Onozato Division of Pulmonary Medicine, Department of Medicine, Keio University School of Medicine

11:03-11:12 2-4 Mouse eosinophil-associated ribonuclease-2 exacerbates the allergic response

Le Thi Kieu Department of Otolaryngology, Head and Neck Surgery, Kansai Medical University

(11:12-11:20 Break)

Session 3 Treatment, Prognostic Factors

Chairperson : Koichi Fukunaga Division of Pulmonary Medicine, Department of Medicine, Keio University School of Medicine

11:20-11:29 3-1 Suppressive effects of short-chain fatty acids on upper airway eosinophil inflammatory disease

Rikako Gozawa Department of Otorhinolaryngology, Head and Neck Surgery, University of Fukui

11:29-11:38 3-2 Effectiveness of one-year treatment with dupilumab for patients with severe asthma

Yoshihiko Sato Department of Respiratory Medicine, Juntendo University Faculty of Medicine

11:38-11:47 3-3 A prediction score of difficult-to-treat allergic bronchopulmonary aspergillosis

Jun Tanaka Division of Pulmonary Medicine, Department of Medicine, Tokai University School of Medicine

11:47-11:56 3-4 Montelukast treatment response according to eosinophil-derived neurotoxin level in children with allergic rhinitis

Yong-Ju Lee / Chang-Keun Kim Department of Pediatrics, Yonsei University College of Medicine, Yongin Severance Hospital

12:10-13:00 Educational Seminar 1

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

Distinct role of eosinophils in severe asthma

Hae-Sim Park Department of Allergy & Clinical Immunology, Ajou University School of Medicine

(13:00-13:05 Administrative communication)

(13:05-13:15 Break)

Session 4 Case Reports, Role in Disease Pathogenesis

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

- 13:15-13:24 4-1 A case of thrombotic microangiopathy with eosinophilic inflammation suggested by Charcot-Leiden crystals
Keinosuke Hizuka Department of General Internal Medicine and Clinical Laboratory Medicine, Akita University
- 13:24-13:33 4-2 Classification of paediatric non-esophageal eosinophilic gastrointestinal disorders with ESPGHAN/NASPGHAN guidelines
Mariko Shimizu Division of Allergy and Rheumatology, Gunma Children's Medical Center
- 13:33-13:42 4-3 Study of the new allergen specific sublingual immunotherapy using hyaluronan
Shigeki Katoh Department of General Medicine, Kawasaki Medical School
- 13:42-13:51 4-4 Peritoneal fibrosis and eosinophilic infiltration in peritoneal dialysis therapy
Takao Atsumi Saitama Medical University Clinical Training Center
- 13:51-14:00 4-5 Relationship between serum IL-36 subfamily concentration and clinical symptoms
Yuki Hoshino Department of Respiratory Medicine, Saitama Medical University

14:05-15:05 Special Lecture

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

Novel factors in allergic inflammation ~ New environmental factors and single gene mutations ~

Hideaki Morita Department of Allergy and Clinical Immunology, National Research Institute for Child Health and Development Allergy Center, National Center for Child Health and Development

(15:05-15:15 Break)

Session 5 Role in Disease Pathogenesis, Others

Chairperson : Akira Kanda Department of Pathology and Laboratory Medicine, Allergy Center, and Department of Otolaryngology, Head and Neck Surgery, Kansai Medical University

- 15:15-15:24 5-1 An increased relative eosinophil count as a predictive dynamic biomarker in non-small cell lung cancer patients treated with immune checkpoint inhibitors
Eiji Takeuchi Department of Respiratory Medicine, National Hospital Organization Kochi Hospital
- 15:24-15:33 5-2 Memory T cell subsets that are associated with sex differences in eosinophilic inflammation
Tomomitsu Miyasaka Center for Medical Education, Faculty of Medicine, Tohoku Medical and Pharmaceutical University
- 15:33-15:42 5-3 The role of CD69 positive TH2 cells on eCRS
Koji Matsumoto Department of Otorhinolaryngology - Head and Neck Surgery, Shiga University of Medical Science
- 15:42-15:51 5-4 Detrimental impact of allergic diseases on academic performance of first-year medical school exams
Yutaka Nakamura Center for Medical Education, Faculty of Medicine, Tohoku Medical and Pharmaceutical University

15:55-16:55 **Educational Seminar 2**

Chairperson : Takao Fujisawa National Hospital Organization Mie National Hospital

**The Pathogenic Roles of Eosinophils and IL-5 in Severe Asthma and
Eosinophilic Chronic Rhinosinusitis**

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

16:55-17:00 Closing Remarks

Koichi Fukunaga 2025 Chairperson/ Division of Pulmonary Medicine, Department of Medicine, Keio University
School of Medicine