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学科：スポーツマネジメント学科  
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#### 最終学歴・学位等

最終学歴：三重大学医学部医学科  
学位：博士 (医学)  
免許：医師免許

#### 所属学会等

日本小児科学会, 日本アレルギー学会, 日本小児アレルギー学会, 日本免疫学会, 日本小児リウマチ学会, American Academy of Allergy Asthma and Immunology (AAAAI), European Academy of Allergy and Clinical Immunology (EAACI), アレルギー・好酸球研究会

#### 専門・研究領域

小児アレルギー学, 膠原病, 好酸球, ウイルス感染喘息

#### 主な論文・著作 (著者, 責任著者)

主要論文 10 編

1. Kato M, Abraham RT, Kita H. Tyrosine phosphorylation is required for eosinophil degranulation induced by immobilized immunoglobulins. *J Immunol* 155: 357-366, 1995.
2. Kato M, Abraham RT, Okada S, Kita H. Ligation of the  $\beta 2$  integrins triggers activation and degranulation of human eosinophils. *Am J Respir Cell Mol Biol* 18: 675-686, 1998.
3. Kato M, Kephart GM, Talley NJ, et al. Eosinophil infiltration and degranulation in normal human tissues. *Anat Rec* 252: 418-425, 1998.
4. Takizawa T\*, Kato M\*, Kimura H, et al. Inhibition of protein kinases A and C demonstrates dual modes of response in human eosinophils stimulated with platelet-activating factor. *J Allergy Clin Immunol* 110: 241-248, 2002.  
\*equal to contribute
5. Kato M, Kimura H, Motegi Y, et al. Platelet-activating factor activates two distinct effector pathways in human eosinophils. *J Immunol* 169: 5252-5259, 2002.
6. Suzuki M, Kato M, Hanaka H, Izumi T, Morikawa A. Actin assembly is a crucial factor for superoxide anion generation from adherent human eosinophils. *J Allergy Clin Immunol* 112: 126-133, 2003.
7. Kato M, Tachibana A, Suzuki M, et al. An atypical protein kinase C, PKC  $\zeta$ , regulates human eosinophil effector functions. *Immunology* 116: 193-202, 2005.
8. Kato M, Tsukagoshi H, Yoshizumi M, et al. Different cytokine profile and eosinophil activation are involved in rhinovirus- and RS virus-induced acute exacerbation of childhood wheezing. *Pediatr Allergy Immunol* 22: e89-94, 2011.
9. Kama Y, Kato M, Yamada Y, et al. The suppressive role of *Streptococcus pneumoniae* colonization in acute exacerbations of childhood bronchial asthma. *Int Arch Allergy Immunol* 181: 191-199, 2020.
10. Kato M, Mochizuki M, Kama Y, et al. Palivizumab prophylaxis in preterm infants and subsequent wheezing/asthma: 10-year follow-up study. *Pediatric Pulmonol* 59: 743-749, 2024.

主要著作・総説 5 編

1. Kato M, Tachibana A, Kimura H, Morikawa A. Bronchial asthma and bronchiolitis induced by respiratory syncytial virus: role of eosinophils. In: Morikawa A, ed. *Current advances in pediatric asthma and other allergic diseases*. Maebashi, Jomo Newspaper, 2002, p59-64.
2. Kato M, Hayashi Y, Kimura H. Role of oxygen radicals on inflammation and allergy: oxygen radicals in inflammation and allergy related to viral infections. *Curr Drug Targets Inflamm Allergy* 4: 497-501, 2005.
3. Kato M, Suzuki M, Hayashi Y, Kimura H. Role of eosinophils and their clinical significance on allergic inflammation. *Expert Rev Clin Immunol* 2: 121-133, 2006.
4. Kato M, Kimura H, Seki M, et al. Omenn syndrome: review of several phenotypes of Omenn syndrome and *RAG1/RAG2* mutations in Japan. *Allergol Int* 55: 115-119, 2006.
5. Kato M. Eosinophils in allergy and related diseases. Preface. *Int Arch Allergy Immunol* 161(Suppl 2): 1-2, 2013.

#### 文部科学省科学研究費：研究代表者のみ

研究課題：細菌及びウイルス感染喘息の病態における 2 型自然リンパ球の役割と新規制御機構の解明  
研究種目：基盤研究 (C) 研究期間：2022-2024 年度 総額：4,160 千円  
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