



Roles of Eosinophils in Airway Inflammation & Carcinogenesis

by

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5 Sassoon Road**

Abstract:

Eosinophils (Eos) have been long considered as end-stage effector cells in the hierarchical hematopoietic system. Numerous lines of evidence have suggested that Eos are multifunctional leukocytes with respect to the initiation, propagation and regulation of various inflammatory or immune reactions, especially in allergic diseases. Recent studies have shown that Eos are also required for maintenance of bone marrow plasma cells and differentiation of B cells. However, it remains unclear how Eos contributes to airway inflammation and carcinogenesis. In this talk, we will discuss roles of Eos in the disrupt hematopoietic stem cell (HSC) homeostasis as well as its potential impact on cancer development.

Bio-sketch:

Professor Songmin Ying (MD, PhD) is Vice Dean of Chu Kochen Honors College at Zhejiang University. He obtained his PhD from Technical University of Munich, Germany, in 2007. Following postdoctoral work at the University of Oxford, UK for 6 years, he became a Principal Investigator and Professor at the Institute of Respiratory Diseases at Zhejiang University in China, supported by the “National Thousand Youth Talents Plan”. His research focuses on genomic instability in contribution to the pathogenesis of chronic airway diseases as well as lung cancer. He has published over 60 research articles in top journals (i.e. *Nature*, *Nature Cell Biology*, *Gastroenterology*, *Cell Research*, *Journal of Allergy & Clinical Immunology*, *Nucleic Acids Research*, and *Cancer Research* etc.), with an H-index of 19. He is Vice President for the Youth Committee of Chinese Thoracic Society (CTS), and Vice President for the Youth Committee of Chinese Association of Chest Physicians (CACP).