



## **AKIRA, Shizuo**

Director and Professor, WPI Immunology Frontier Research Center (IFReC), Osaka University



### **RESEARCH TOPICS**

Innate Immunity, Signaling pathway, Gene targeting

### **EDUCATION**

- 1977 M.D. Osaka University, School of Medicine
- 1977-1978 Clinical Training at Osaka University Hospital
- 1980-1984 Ph.D. Osaka University, School of Medicine

### **POSITIONS**

- 1996-1999 Professor of Biochemistry, Hyogo College of Medicine
- 1996-2002 Research Head in CREST and SORST of JST
- 1999-present Professor of Department of Host Defense, Research Institute for Microbial Diseases, Osaka University
- 2002-2007 Project Director of AKIRA Innate Immunity, ERATO of JST
- 2007-present Director, WPI Immunology Frontier Research Center (WPI-IFReC), Osaka University
- 2011.10-2012.3 Senior Visiting Scientist, Quantitative Biology Center, RIKEN
- 2012.1-present Senior Advisor, Research Center for Allergy and Immunology, RIKEN(-2013.3)

### **AWARDS (Selected)**

- 2004 Robert Koch Prize
- 2006 William B. Coley Award for Distinguished Research in Basic Immunology
- 2007 Imperial Prize and Japan Academy Prize
- 2009 National Academy of Sciences of USA, Foreign Associate, Person of Cultural Merit
- 2010 Keio International Medical Science Prize, Avery-Landsteiner Prize, Honorary lifetime member, EMBO Associate Member, The 2011 Canada Gairdner International Award



**PUBLICATIONS (Selected)**

- 1) Iwasaki, H., Takeuchi, O., Teraguchi, S., Matsushita, K., Uehata, T., Kuniyoshi, K., Satoh, T., Saitoh, T., Matsushita, M., Standley, D.M. & Akira, S.  
The I $\kappa$ B kinase complex regulates the stability of cytokine-encoding mRNA induced by TLR-IL-1R by controlling degradation of regnase-1.  
Nat Immunol. 12(12):1167-1175(2011).
  
- 2) Kawai, T. & Akira, S.  
Toll-like Receptors and Their Crosstalk with Other Innate Receptors in Infection and Immunity.  
Immunity. Review. 34(5):637-650(2011).
  
- 3) Saitoh, T., Satoh, T., Yamamoto, N., Uematsu, S., Takeuchi, O., Kawai, T. & Akira, S.  
Antiviral Protein Viperin Promotes Toll-like Receptor 7- and Toll-like Receptor 9-Mediated Type I Interferon Production in Plasmacytoid Dendritic Cells.  
Immunity. 34(3):352-363(2011).
  
- 4) Tsuchida, T., Zou, J., Saitoh, T., Kumar, H., Abe, T., Matsuura, Y., Kawai, T. & Akira, S.  
The Ubiquitin Ligase TRIM56 Regulates Innate Immune Responses to Intracellular Double-Stranded DNA.  
Immunity. 33(5):765-776(2010).
  
- 5) Satoh, T., Takeuchi, O., Vandenbon, A., Yasuda, K., Tanaka, Y., Kumagai, Y., Miyake, T., Matsushita, K., Okazaki, T., Saitoh, T., Honma, K., Matsuyama, T., Yui, K., Tsujimura, T., Standley, D.M., Nakanishi, K., Nakai, K. & Akira, S.  
The Jmjd3-Irf4 axis regulates M2 macrophage polarization and host responses against helminth infection.  
Nat Immunol. 11(10):936-944(2010).