

## Seishi OGAWA, M.D., Ph.D.

*Professor, Department of Pathology and Tumor Biology, Kyoto University, Kyoto, Japan*  
*Visiting professor, Department of molecular hematology and regeneration medicine, Karolinska Institute, Sweden*

Seishi Ogawa, MD, PhD is a Professor at Kyoto University –Kyoto, since 2013. He has been the head of the department of Pathology and Tumor Biology since 2013 developing work on genome analysis of human cancers. His scientific contribution has been central to understand the pathogenesis of myelodysplastic syndromes as well as other cancers, such as adult T-cell leukemia, which is the topic of his talk, through identification of key genetic alterations and mutations. He has exploited various approaches from the development of genome analysis tools to the use of massively parallel sequencing technologies, to comprehensively explore cancer genomes as well as cancer biology.

### Professional Experience and Education:

2013 - Present: Professor, Department of Pathology and Tumor Biology, Kyoto University  
2008 - 2013: Associate Professor, Cancer Genomics Project, University of Tokyo  
2006 - 2008: Associate Professor, The 21st century COE program, Graduate School of Medicine, University of Tokyo  
2002 - 2006: Associate Professor, Department of Regeneration Medicine for Hematopoiesis, Graduate School of Medicine, University of Tokyo  
1996 –2002: Assistant Professor of Medicine, University of Tokyo  
1995 –1996: Research fellow of Japan Society for the Promotion of Science  
1994 –1995: Clinical Associate, University of Tokyo  
1988 –1989: Postgraduate clinical training in internal medicine

### Awards:

1996 Erwin von Bealz Prize  
2010 Mauverney Prize of the Japanese Cancer Association  
2012 Nice STEP researcher 2011  
2013 Award of the Japanese Society of Hematology  
2013 Medical Award of The Japan Medical Association  
2014 Mochida Memorial Award  
2014 Sagawa Special Award  
2017 Uehara Prize  
2017 Princes Takamatsu Cancer Research Fund Prize  
2017 Medal with Purple Ribbon (2018)

### Selected Publications:

1. Nishimura T, Kakiuchi N, Yoshida K, Sakurai T, Kataoka TR, Kondoh E, Chigusa Y, Kawai M, Sawada M, Inoue T, Takeuchi Y, Maeda H, Baba S, Shiozawa Y, Saiki R, Nakagawa MM, Nannya Y, Ochi Y, Hirano T, Nakagawa T, Inagaki-Kawata Y, Aoki K, Hirata M, Nanki K, Matano M, Saito M, Suzuki E, Takada M, Kawashima M, Kawaguchi K, Chiba K, Shiraishi Y, Takita J, Miyano S, Mandai M, Sato T, Takeuchi K, Haga H, Toi M, Ogawa S. Evolutionary histories of breast cancer and related clones. *Nature*;620(7974):607-614, 2023.
2. Kakiuchi N, Ogawa S. Clonal expansion in non-cancer tissues. *Nat Rev Cancer*. 2021.
3. Kakiuchi N, Yoshida K, Uchino M, Kihara T, Akaki K, Inoue Y, Kawada K, Nagayama S, Yokoyama A, Yamamoto S, Matsuura M, Horimatsu T, Hirano T, Goto N, Takeuchi Y, Ochi Y, Shiozawa Y, Kogure Y, Watatani Y, Fujii Y, Kim SK, Kon A, Kataoka K, Yoshizato T, Nakagawa MM, Yoda A, Nanya Y, Makishima H, Shiraishi Y, Chiba K, Tanaka H, Sanada M, Sugihara E, Sato TA, Maruyama T, Miyoshi H, Taketo MM, Oishi J, Inagaki R, Ueda Y, Okamoto S, Okajima H, Sakai Y, Sakurai T, Haga H, Hirota S, Ikeuchi H, Nakase H, Marusawa H, Chiba T, Takeuchi O, Miyano S, Seno H, Ogawa S. Frequent mutations that converge on the NFKBIZ pathway in ulcerative colitis. *Nature*. 2020;577(7789):260-265.
4. Yokoyama A, Kakiuchi N, Yoshizato T, Nannya Y, Suzuki H, Takeuchi Y, Shiozawa Y, Sato Y, Aoki K, Kim SK, Fujii Y, Yoshida K, Kataoka K, Nakagawa MM, Inoue Y, Hirano T, Shiraishi Y, Chiba K, Tanaka

H, Sanada M, Nishikawa Y, Amanuma Y, Ohashi S, Aoyama I, Horimatsu T, Miyamoto S, Tsunoda S, Sakai Y, Narahara M, Brown JB, Sato Y, Sawada G, Mimori K, Minamiguchi S, Haga H, Seno H, Miyano S, Makishima H, Muto M, Ogawa S. Age-related remodelling of oesophageal epithelia by mutated cancer drivers. **Nature**. 2019;565(7739):312-317.

5. Yoshizato T, Dumitriu B, Hosokawa K, Makishima H, Yoshida K, Townsley D, Sato-Otsubo A, Sato Y, Liu D, Suzuki H, Wu CO, Shiraishi Y, Clemente MJ, Kataoka K, Shiozawa Y, Okuno Y, Chiba K, Tanaka H, Nagata Y, Katagiri T, Kon A, Sanada M, Scheinberg P, Miyano S, Maciejewski JP, Nakao S, Young NS, Ogawa S. Somatic Mutations and Clonal Hematopoiesis in Aplastic Anemia. **N Engl J Med**. 2015;373(1):35-47.