

Mamiko Sakata-Yanagimoto

• **Affiliation/Current Position:** Department of Hematology, Faculty of Medicine, University of Tsukuba, Professor

• **Country:** Japan

• **Educational Background:**

2000 M.D. (University of Tokyo)

2007 Ph.D. (University of Tokyo)

• **Professional Experiences:**

2000-2001 Resident, Internal Medicine, University of Tokyo Hospital, Tokyo, Japan

2001-2002 Resident, Internal Medicine, NTT Kanto Teishin Hospital, Tokyo, Japan

2002-2003 Resident, Department of Hematology, University of Tokyo Hospital, Tokyo, Japan

2007-2008 Resident, Department of Hematology, University of Tokyo Hospital, Tokyo, Japan

2008 Resident, Department of Hematology, University of Tsukuba Hospital, Ibaraki, Japan

2008-2013 Assistant Professor, Department of Hematology, Faculty of Medicine, University of Tsukuba, Ibaraki, Japan

2013-2021 Associate Professor, Department of Hematology, Faculty of Medicine, University of Tsukuba, Ibaraki, Japan

2015 Visiting Researcher, Hopital Henri Mondor, France (prof. Phillipe Gaulard)

2021-present Professor, Department of Hematology, Faculty of Medicine, University of Tsukuba, Ibaraki, Japan; Division of Advanced Hemato-Oncology, Transborder Medical Research Center, University of Tsukuba, Ibaraki, Japan

• **Professional Organizations**

American Society of Hematology, European Hematology Association, Japanese Society of Hematology, Japanese Cancer Association, The Japanese Society of Internal Medicine, The Japanese Society for Lymphoreticular Tissue Research, The Molecular Biology Society of Japan

• **Awards**

2013 18th Congress of EHA Travel Award of the Japanese Society of Hematology

2013 "Best of ASH" at the American Society of Hematology 55th Annual Meeting and Exposition

2014 33th Incitement Award of the Japanese Cancer Association

2014 54th Incitement Award of the Lymphoreticular Tissue Research

2015 BMS award (The 30th Nagoya International Cancer Treatment Symposium)

2017 Ogimura Takashi Special Prize, Japan Leukemia Research Fund

2020 25th Incitement Award of the Society of Japanese Women Scientists

2020 4th President's Award of Japan Agency for Medical Research and Development (AMED)

2021 15th Innovative award of Kobayashi Foundation Cancer Research

2022 Commendation for Science and Technology by the Minister of Education, Culture, Sports, Science and Technology

2022 JCA-Mauverney award of the Japanese Cancer Association

• **Selected publications** * cocorresponding author, + cofirst author

1. Kurita N, Nishikii H, Maruyama Y, Suehara Y, Hattori K, Sakamoto T, Kato T, Yokoyama Y, Obara N, Maruo K, Ohigashi T, Yamaguchi H, Iwamoto T, Minohara H, Matsuoka R, Hashimoto K, Sakata-Yanagimoto M, Chiba S. "Safety of romiplostim administered immediately after cord-blood transplantation: a phase 1 trial." *Ann Hematol.* 2023 in press

2. Sakamoto T, Obara N, Maruyama Y, Kato T, Kurita N, Hattori K, Suehara Y, Nishikii H, Yokoyama Y, Sakata-Yanagimoto M, Usuki K, Chiba S. "Repeated immunosuppressive rabbit antithymocyte globulin therapy for adult patients with relapsed or refractory aplastic anemia." *Eur J Haematol.* 2023 in press

3. Kiyoki Y, Kato T, Kito S, Matsuzaka T, Morioka S, Sasaki J, Makishima K, Sakamoto T, Nishikii H, Obara N, Sakata-Yanagimoto M, Sasaki T, Shimano H, Chiba S. "The fatty acid elongase Elovl6 is crucial for hematopoietic stem cell engraftment and leukemia propagation." *Leukemia.* 37(4):910-913, 2023.

4. Tani H, Sadahiro T, Yamada Y, Isomi M, Yamakawa H, Fujita R, Abe Y, Akiyama T, Nakano K, Kuze Y, Seki M, Suzuki Y, Fujisawa M, Sakata-Yanagimoto M, Chiba S, Fukuda K, Ieda M. "Direct Reprogramming Improves Cardiac Function and Reverses Fibrosis in Chronic Myocardial Infarction." *Circulation.* 147(3):223-238, 2023.

5. Fujisawa M, Nguyen TB, Abe Y, Suehara Y, Fukumoto K, Suma S, Makishima K, Kaneko C, Nguyen YTM, Usuki K, Narita K, Matsue K, Nakamura N, Ishikawa S, Miura F, Ito T, Suzuki A, Suzuki Y, Mizuno S, Takahashi S, Chiba S, Sakata-Yanagimoto M*.

"Clonal germinal center B cells function as a niche for T-cell lymphoma." *Blood.* 140(18):1937-1950, 2022.

6. Abe Y, Sakata-Yanagimoto M*, Fujisawa M, Miyoshi H, Suehara Y, Hattori K, Kusakabe M, Sakamoto T, Nishikii H, Nguyen TB, Owada Y, Enomoto T, Sawa A, Bando H, Yoshida C, Tabata R, Terao T, Nakayama M, Ohshima K, Usuki K, Oda T, Matsue K, Chiba S.

"A single-cell atlas of non-haematopoietic cells in human lymph nodes and lymphoma reveals a landscape of stromal remodelling." *Nature Cell Biology.* 24(4):565-578, 2022.

7. Makishima K, Suehara Y, Abe Y, Hattori K, Kusakabe M, Matsuoka R, Chiba S, Sakata-Yanagimoto M*. "Intra-tumor heterogeneity of lymphoma identified by multi-region sequencing of autopsy samples." *Cancer Sci.* 113(1):362-364, 2022.

8. Nguyen YTM, Fujisawa M, Nguyen TB, Suehara Y, Sakamoto T, Matsuoka R, Abe Y, Fukumoto K, Hattori K, Noguchi M, Matsubara D, Chiba S, Sakata-Yanagimoto M*. "Tet2-

deficiency in immune cells exacerbates tumor progression by increasing angiogenesis in a lung cancer model.” *Cancer Sci.* 112(12):4931-4943, 2021.

9. Kawai H, Ando K, Maruyama D, Yamamoto K, Kiyohara E, Terui Y, Fukuhara N, Miyagaki T, Tokura Y, Sakata-Yanagimoto M, Igarashi T, Kuroda J, Fujita J, Uchida T, Ishikawa T, Yonekura K, Kato K, Nakanishi T, Nakai K, Matsunaga R, Tobinai K. “Phase 2 study of E7777 in Japanese patients with relapsed/refractory peripheral and cutaneous T-cell lymphoma.” *Cancer Sci.* 112(6):2426-2435, 2021.

10. Fukumoto K, Sakata-Yanagimoto M*, Fujisawa M, Sakamoto T, Miyoshi H, Suehara Y, Tran B. Nguyen, Suma S, Yanagimoto S, Shiraishi Y, Chiba K, Bouska A, Kataoka K, Ogawa S, Iqbal J, Ohshima K, Chiba S. “*VAV1* mutations contribute to development of T-cell neoplasms in mice.” *Blood.* 136(26):3018-3032, 2020.

11. Chiba S, Sakata-Yanagimoto M. “Advances in understanding of angioimmunoblastic T-cell lymphoma.” *Leukemia.* 34(10):2592-2606, 2020.

12. Miyoshi H, Sakata-Yanagimoto M, Shimono J, Yoshida N, Hattori K, Arakawa F, Yanagida E, Takeuchi M, Yamada K, Suzuki T, Moritsubo M, Furuta T, Chiba S, Ohshima K. “RHOA mutation in follicular T-cell lymphoma: Clinicopathological analysis of 16 cases.” *Pathol Int.* 70(9):653-660, 2020.

13. Shrestha R, Sakata-Yanagimoto M*, Maie K, Oshima M, Ishihara M, Suehara Y, Fukumoto K, Nakajima-Takagi Y, Matsui H, Kato T, Muto H, Sakamoto T, Kusakabe M, Nannya Y, Makishima H, Ueno H, Saiki R, Ogawa S, Chiba K, Shiraishi Y, Miyano S, Mouly E, Bernard OA, Inaba T, Koseki H, Iwama A, Chiba S. “Molecular pathogenesis of progression to myeloid leukemia from TET-insufficient status.” *Blood Adv.* 4(5):845-854, 2020.

14. Nguyen TB, Sakata-Yanagimoto M+*, Fujisawa M, Nuhat ST, Miyoshi H, Nannya Y, Hashimoto K, Fukumoto K, Bernard OA, Kiyoki Y, Ishitsuka K, Momose H, Sukegawa S, Shinagawa A, Suyama T, Sato Y, Nishikii H, Obara N, Kusakabe M, Yanagimoto S, Ogawa S, Ohshima K, Chiba S. “Dasatinib Is an Effective Treatment for Angioimmunoblastic T-cell Lymphoma.” *Cancer Research.* 80(9):1875-1884, 2020.

15. Suehara Y, Sakata-Yanagimoto M, Hattori K, Kusakabe M, Nanmoku T, Sato T, Noguchi M, Chiba S. “Mutations found in cell-free DNAs of patients with malignant lymphoma at remission can derive from clonal hematopoiesis.” *Cancer Sci.* 110(10):3375-3381, 2019.

16. Watatani Y, Sato Y, Miyoshi H, Sakamoto K, Nishida K, Gion Y, Nagata Y, Shiraishi Y, Chiba K, Tanaka H, Zhao L, Ochi Y, Takeuchi Y, Takeda J, Ueno H, Kogure Y, Shiozawa Y, Kakiuchi N, Yoshizato T, Nakagawa MM, Nanya Y, Yoshida K, Makishima H, Sanada M, Sakata-Yanagimoto M, Chiba S, Matsuoka R, Noguchi M, Hiramoto N, Ishikawa T, Kitagawa J, Nakamura N, Tsurumi H, Miyazaki T, Kito Y, Miyano S, Shimoda K, Takeuchi K, Ohshima K, Yoshino T, Ogawa S, Kataoka K.

“Molecular heterogeneity in peripheral T-cell lymphoma, not otherwise specified revealed by comprehensive genetic profiling.” *Leukemia*. 33(12):2867-2883, 2019.

17. Sakamoto T, Obara N, Nishikii H, Kato T, Cao-Sy L, Fujimura R, Yagita H, Sakata-Yanagimoto M, Takahashi S, Chiba S. “Notch Signaling in Nestin-Expressing Cells in the Bone Marrow Maintains Erythropoiesis via Macrophage Integrity.” *Stem Cells*. 37(7):924-936, 2019.

18. Hattori K, Sakata-Yanagimoto M*, Kusakabe M, Nanmoku T, Suehara Y, Matsuoka R, Noguchi M, Yokoyama Y, Kato T, Kurita N, Nishikii H, Obara N, Takano S, Ishikawa E, Matsumura A, Muratani M, Hasegawa Y, Chiba S. “Genetic evidence implies that primary and relapsed tumors arise from common precursor cells in primary central nervous system lymphoma.” *Cancer Sci*. 110(1):401-407, 2019.

19. Tanzima Nuhat S, Sakata-Yanagimoto M*, Komori D, Hattori K, Suehara Y, Fukumoto K, Fujisawa M, Kusakabe M, Matsue K, Wakamatsu H, Shimadzu M, Chiba S. “Droplet digital polymerase chain reaction assay and peptide nucleic acid-locked nucleic acid clamp method for RHOA mutation detection in angioimmunoblastic T-cell lymphoma.” *Cancer Sci*. 109(5):1682-1689, 2018.

20. Suehara Y, Sakata-Yanagimoto M, Hattori K, Nanmoku T, Itoh T, Kaji D, Yamamoto G, Abe Y, Narita K, Takeuchi M, Matsue K, Sato T, Noguchi M, Baba N, Sakamoto T, Kusakabe M, Kurita N, Kato T, Yokoyama Y, Nishikii H, Obara N, Hasegawa Y, Chiba S. “Liquid biopsy for the identification of intravascular large B-cell lymphoma.” *Haematologica*. 103(6):e241-e244, 2018.

21. Hattori K, Sakata-Yanagimoto M*, Suehara Y, Yokoyama Y, Kato T, Kurita N, Nishikii H, Obara N, Takano S, Ishikawa E, Matsumura A, Hasegawa Y, Chiba S. “Clinical significance of disease-specific MYD88 mutations in circulating DNA in primary central nervous system lymphoma.” *Cancer Sci*. 109(1):225-230, 2018.

22. Fujisawa M, Sakata-Yanagimoto M+*, Nishizawa S, Komori D, Gershon P, Kiryu M, Tanzima S, Fukumoto K, Enami T, Muratani M, Yoshida K, Ogawa S, Matsue K, Nakamura N, Takeuchi K, Izutsu K, Fujimoto K, Teshima T, Miyoshi H, Gaulard P, Ohshima K, Chiba S. “Activation of RHOA-VAV1 signaling in angioimmunoblastic T-cell lymphoma.” *Leukemia*. 32(3):694-702, 2018.

23. Sakata-Yanagimoto M+*, Nakamoto-Matsubara R, Komori D, Nguyen TB, Hattori K, Nanmoku T, Kato T, Kurita N, Yokoyama Y, Obara N, Hasegawa Y, Shinagawa A, Chiba S. “Detection of the circulating tumor DNAs in angioimmunoblastic T- cell lymphoma.” *Ann Hematol*. 96(9):1471-1475, 2017.

24. Nguyen TB, Sakata-Yanagimoto M*, Asabe Y, Matsubara D, Kano J, Yoshida K, Shiraishi Y, Chiba K, Tanaka H, Miyano S, Izutsu K, Nakamura N, Takeuchi K, Miyoshi H, Ohshima K, Minowa T, Ogawa S, Noguchi M, Chiba S. “Identification of cell-type-specific mutations in nodal

T-cell lymphomas.” *Blood Cancer J.* 7(1):e516, 2017.

25. Nagata Y, Kontani K, Enami T, Kataoka K, Ishii R, Totoki Y, Kataoka TR, Hirata M, Aoki K, Nakano K, Kitanaka A, Sakata-Yanagimoto M, Egami S, Shiraishi Y, Chiba K, Tanaka H, Shiozawa Y, Yoshizato T, Suzuki H, Kon A, Yoshida K, Sato Y, Sato-Otsubo A, Sanada M, Munakata W, Nakamura H, Hama N, Miyano S, Nureki O, Shibata T, Haga H, Shimoda K, Katada T, Chiba S, Watanabe T, Ogawa S. “Variegated RHOA mutations in adult T-cell leukemia/lymphoma.” *Blood.* 127(5):596-604, 2016.

26. Kato T, Sakata-Yanagimoto M, Nishikii H, Ueno M, Miyake Y, Yokoyama Y, Asabe Y, Kamada Y, Muto H, Obara N, Suzukawa K, Hasegawa Y, Kitabayashi I, Uchida K, Hirao A, Yagita H, Kageyama R, Chiba S. “Hes1 suppresses acute myeloid leukemia development through FLT3 repression.” *Leukemia.* 29(3):576-85, 2015.

27. Muto H, Sakata-Yanagimoto M, Nagae G, Shiozawa Y, Miyake Y, Yoshida K, Enami T, Kamada Y, Kato T, Uchida K, Nanmoku T, Obara N, Suzukawa K, Sanada M, Nakamura N, Aburatani H, Ogawa S, Chiba S. “Reduced TET2 function leads to T-cell lymphoma with follicular helper T-cell-like features in mice.” *Blood Cancer J.* 4:e264, 2014.

28. Sakata-Yanagimoto M[±], Enami T, Yoshida K, Shiraishi Y, Ishii R, Miyake Y, Muto H, Tsuyama N, Sato-Otsubo A, Okuno Y, Sakata S, Kamada Y, Nakamoto-Matsubara R, Tran NB, Izutsu K, Sato Y, Ohta Y, Furuta J, Shimizu S, Komeno T, Sato Y, Ito T, Noguchi M, Noguchi E, Sanada M, Chiba K, Tanaka H, Suzukawa K, Nanmoku T, Hasegawa Y, Nureki O, Miyano S, Nakamura N, Takeuchi K, Ogawa S, Chiba S. “Somatic RHOA mutation in angioimmunoblastic T cell lymphoma.” *Nature Genetics.* 46(2):171-5, 2014.