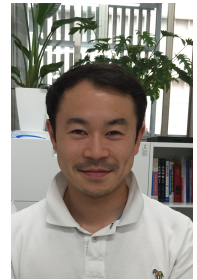


## 1. CURRICULUM VITAE

**Hitoshi Takizawa**



### **Personal Information:**

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Family name: Takizawa  
Forenames: Hitoshi  
Academic title: Ph.D.  
Nationality: Japanese

### **Position and Work address:**

Professor and Vice Director  
International Research Center for Medical Sciences, Kumamoto University  
2-2-1 Honjo, Chuo-ku, Kumamoto-city, Kumamoto, Japan  
Phone: +81 (0)96 373 6879  
Fax: +81 (0)96 373 6879  
e-mail: [htakizawa@kumamoto-u.ac.jp](mailto:htakizawa@kumamoto-u.ac.jp)

**Education:**

- 2003 April - 2007 Mar. Department of Immunology, Institute of Medical Science,  
Graduate School of Medical Science, The University of Tokyo, Tokyo, Japan  
Awarded the degree of PhD in Medical Science  
Advisor: Prof. Dr. Kiyoshi Takatsu
- 2001 April - 2003 Mar. Department of Immunology, Institute of Medical Science,  
Graduate School of Medical Science, The University of Tokyo, Tokyo, Japan  
Awarded the degree of Master in Medical Science  
Advisor: Prof. Dr. Kiyoshi Takatsu
- 1997 April - 2001 Mar. Department of Bioscience, Tokyo Institute of Technology, Tokyo, Japan  
Awarded the degree of BSc in Bioscience  
Advisor: Prof. Dr. Yuji Saito

**Research training:**

- 2009 Sept. - 2012 Jan. Postdoctoral Research Fellow  
Division of Experimental Hematology, University Hospital Zürich, Switzerland  
Advisor: Prof. Dr. med. Markus G. Manz
- 2007 April - 2009 Aug. Postdoctoral Research Fellow  
Hematopoiesis Laboratory, Institute for Research in Biomedicine, Switzerland  
Advisor: Dr. med. Markus G. Manz

**Academic appointments:**

- 2017 Jan. - Professor and Vice Director  
International Research Center for Medical Sciences, Kumamoto University, Japan
- 2015 Jan. - 2016 Dec. Associate Professor  
International Research Center for Medical Sciences, Kumamoto University, Japan
- 2015 Jan. - 2015 Dec. Visiting Scientist  
Division of Experimental Hematology, University Hospital Zürich, Switzerland
- 2012 Feb. - 2014 Dec. Junior group Leader  
Division of Experimental Hematology, University Hospital Zürich, Switzerland
- 2009 April - 2011 Mar. Research Fellowship for Research Abroad, Japanese Science for the Promotion of  
Science
- 2007 April - 2008 Mar. Research Fellowship, Japanese Science for the Promotion of Science
- 2006 April - 2007 Mar. Research Fellowship for Young Scientist, Japanese Science for the Promotion of  
Science

**Honors and Awards:**

|                       |   |
|-----------------------|---|
| 2017-2018             | The Cell Science Research Foundation  |
| 2016-2017             | SENSHIN Medical Research Foundation   |
| 2016-2017             | Astellas Foundation for Research on Metabolic Disorders   |
| 2016-2017             | Mochida Memorial Foundation   |
| 2015-2016             | Kowa Life Science Foundation  |
| 2015-2016             | The Tokyo Biochemical Research Foundation   |
| 2015-2016             | KANAE Foundation for the Promotion of Medical Science   |
| 2015-2016             | Friends of Leukemia Research Fund   |
| 2015-2018             | Takeda Science Foundation   |
| 2013 April            | Bruno Speck Award, Basel Stem Cell Network 2013   |
| 2013 April            | Basic Science Award, 39 <sup>th</sup> Annual meeting of the European Group For Blood and Marrow Transplantation |
| 2009 April -2011 Mar. | Research Fellowship for Research Abroad, Japanese Science for the Promotion of Science                          |
| 2009 April            | Young Investigator Award, 2 <sup>nd</sup> International Workshop on Humanized Mice                              |
| 2007 April -2008 Mar. | Research Fellowship, Japanese Science for the Promotion of Science  |
| 2006 April -2007 Mar. | Research Fellowship for Young Scientist, Japanese Science for the Promotion of Science                          |
| 2004 Mar.             | Young Investigator Award, 13 <sup>th</sup> Molecular Immunology Forum Tokyo                                     |

**Professional organizations and societies:**

International society for experimental hematology (ISEH), International society for stem cell research (ISSCR), American society for hematology (ASH), Japanese society for hematology (JSH), Japanese society for Immunology (JSI)

**Ad hoc Editorial Referee:**

Haematologica, Blood, Journal of the Royal Society Interface, Cell proliferation, Swiss Medical Weekly, Experimental Cell Research, Annals of the New York Academy of Sciences, Experimental Hematology, Stem Cells International, Scientific Report, Journal of Experimental Medicine, Stem Cells, Frontiers in Immunology

**Journal Editorial Board:**

Blood advanced (from September 1st, 2016), a new, online, open access journal published by the American Society of Hematology (<http://www.bloodadvances.org/>).

**2: List of accomplishments** (IF, impact factor; CI, citation index at March, 2017)

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1. Kovtonyuk LV, Fritsch K, Feng X, Manz MG, **Takizawa H**\*. Inflamm-Aging of Hematopoiesis, Hematopoietic Stem Cells and the Bone Marrow Microenvironment. *Frontiers in Immunol*, 2016, Nov 14;7:502. eCollection 2016., \*correspondence., (5.695; 3)
2. Rauch PJ, Ellegast JM, Widmer CC, Fritsch K, Goede JS, Valk PJ, Löwenberg B, **Takizawa H**, Manz MG. MPL expression on AML blasts predicts peripheral blood neutropenia and thrombocytopenia. *Blood*. 2016 Aug 29. pii: blood-2016-04-711986., (11.847; 1)
3. Kovtonyuk LV, Manz MG, **Takizawa H**\*. Enhanced thrombopoietin but not G-CSF receptor stimulation induces self-renewing hematopoietic stem cell divisions in vivo. *Blood*, 2016, Jun 23;127(25):3175-9., \*correspondence., (11.847; 5)
4. Ziegler P, Boettcher S, **Takizawa H**, Manz MG, Brümmendorf TH. LPS-stimulated human bone marrow stroma cells support myeloid cell development and progenitor cell maintenance. *Ann Hematol*. 2016 Jan;95(2):173-8. doi: 10.1007/s00277-015-2550-5. Epub 2015 Nov 11., (3.022; 8)
5. Kovtonyuk LV, **Takizawa H**\*. Mouse genetic background and human hematopoietic stem cells biology; tips for humanization. *Humanized Mice for HIV Research*, Springer, 2015, \*correspondence., (N/A; N/A)
6. Nakamura-Ishizu A, **Takizawa H**, Suda T. The analysis, roles and regulation of quiescence in hematopoietic stem cells. *Development*, 2014 Dec 15;141(24):4656-4666. (6.462; 30)
7. Lundberg P<sup>#</sup>, **Takizawa H**<sup>#</sup>, Kubovcakova L<sup>#</sup>, Guo G, Hao-Shen H, Dirnhofer S, Orkin SH, Manz MG, Skoda RC. Myeloproliferative neoplasms can be initiated from a single hematopoietic stem cell expressing *JAK2-V617F*. *J Exp Med.*, 2014 Oct 20;211(11):2213-30., <sup>#</sup>equal contribution, (13.214; 24)
8. Berres ML, Lim KP, Peters T, Price J, **Takizawa H**, Salmon H, Idoyaga J, Ruzo A, Lupo PJ, Hicks MJ, Shih A, Simko SJ, Abhyankar H, Chakraborty R, Leboeuf M, Heym KM, Bigley V, Collin M, Manz MG, McClain K, Merad M, Allen CE. *BRAF-V600E* Expression in Precursor Versus Differentiated Dendritic Cells Defines Clinically Distinct LCH Risk-Groups. *J Exp Med.*, 2014 Apr 7;211(4):669-83. doi: 10.1084/jem.20130977. Epub 2014 Mar 17., (13.214; 98)
9. Strassberger V, Gutbrodt KL, Krall N, Roesli C, **Takizawa H**, Manz MG, Fugmann T, Neri D. A comprehensive surface proteome analysis of myeloid leukemia cell lines for therapeutic antibody development. *J Proteomics*, 2014 Jan 30;99C:138-151. doi: 10.1016/j.jprot.2014.01.022., (4.088; 12)
10. Wueest S, Mueller R, Blüher M, Item F, Chin AS, Wiedemann MS, **Takizawa H**, Kovtonyuk L, Chervonsky AV, Schoenle EJ, Manz MG, Konrad D. Fas (CD95) expression in myeloid cells promotes obesity-induced muscle insulin resistance. *EMBO Mol Med.*, 2014 Jan 1;6(1):43-56., (7.795; 5)
11. Scotti C<sup>#</sup>, Piccinini E<sup>#</sup>, **Takizawa H**<sup>#</sup>, Todorov A, Bourguine P, Papadimitropoulos A, Barbero A, Manz MG, Martin I. Engineering of a functional bone organ through endochondral ossification. *Proc Natl Acad Sci U S A.*, 2013, Mar 5;110(10):3997-4002, <sup>#</sup>equal contribution, (9.737; 115)
12. Rongvaux A, **Takizawa H**, Strowig T, Willinger T, Eynon EE, Flavell RA, Manz MG. Human Hematolymphoid System Mice: Current Use and Future Potential for Medicine. *Ann Rev Immunol.*, 2013 Jan 16, 2013 Mar 5;110(10):3997-4002., (36.556; 135)

13. Boettcher S, Ziegler P, Schmid MA, **Takizawa H**, van Rooijen N, Kopf M, Heikenwalder M, Manz MG. Cutting edge: LPS-induced emergency myelopoiesis depends on TLR4-expressing nonhematopoietic cells. *J Immunol.*, 2012 Jun 15;188(12):5824-8., (5.788; 58)
14. **Takizawa H**, Boettcher S, Manz MG. Demand-adapted regulation of early hematopoiesis in infection and inflammation. *Blood.*, 2012 Mar 29;119(13):2991-3002., (10.558; 167)
15. **Takizawa H**<sup>\*</sup>, Manz MG. In vivo divisional tracking of hematopoietic stem cells. *Ann N Y Acad Sci.*, 2012 Aug;1266(1):40-6. doi: 10.1111/j.1749-6632.2012.06500.x., <sup>\*</sup>correspondence, (N/A; 3)
16. **Takizawa H**, Schanz U, Manz MG. Ex vivo expansion of hematopoietic stem cells: mission accomplished? *Swiss Med Wkly.*, 2011 Dec 29;141:w13316., (1.895; 24)
17. Schmid MA, **Takizawa H**, Baumjohann DR, Saito Y, Manz MG. Bone marrow dendritic cell progenitors in mice sense pathogens via Toll-like receptors and subsequently migrate to inflamed lymph nodes. *Blood.*, 2011 Nov 3;118(18):4829-40., (10.558; 46)
18. Strowig T, Rongvaux A, Rathinam C, **Takizawa H**, Borsotti C, Philbrick W, Eynon EE, Manz MG, Flavell RA. Transgenic expression of human signal regulatory protein alpha in Rag2<sup>-/-</sup>gammac<sup>-/-</sup> mice improves engraftment of human hematopoietic cells in humanized mice. *Proc Natl Acad Sci U S A.*, 2011 Aug 9;108(32):13218-23., (9.681; 131)
19. **Takizawa H**, Manz MG. Dynamic regulation of hematopoietic stem cell cycling. *Cell Cycle.*, 2011 Jul 15;10(14):2246-7., (5.359; 1)
20. **Takizawa H**<sup>#</sup>, Regoes RR<sup>#</sup>, Boddupalli CS, Bonhoeffer S, Manz MG. Dynamic variation in cycling of hematopoietic stem cells in steady state and inflammation. *J Exp Med.*, 2011 Feb; 14;208(2):273-84., <sup>#</sup>equal contribution, (14.776; 154)
21. Rongvaux A, Willinger T, **Takizawa H**, Rathinam C, Auerbach W, Murphy AJ, Valenzuela DM, Yancopoulos GD, Eynon EE, Stevens S, Manz MG, Flavell RA. Human thrombopoietin knockin mice efficiently support human hematopoiesis in vivo. *Proc Natl Acad Sci U S A.*, 2011 Feb 8;108(6):2378-83., (9.681; 125)
22. Willinger T, Rongvaux A, **Takizawa H**, Yancopoulos GD, Valenzuela DM, Murphy AJ, Auerbach W, Eynon EE, Stevens S, Manz MG, Flavell RA. Human IL-3/GM-CSF knock-in mice support human alveolar macrophage development and human immune responses in the lung. *Proc Natl Acad Sci U S A.*, 2011 Feb 8; 108(6):2390-5., (9.681; 106)
23. **Takizawa H**<sup>#</sup>, Nishimura S<sup>#</sup>, Nishikii H, Takayama N, Oda A, Kakinuma S, Morita Y, Yamazaki S, Tamura N, Goto S, Sawaguchi A, Manabe I, Takatsu Ki, Nakauchi H, Takaki S, Eto K. Lnk/Sh2b3 regulates integrin  $\alpha$ IIb $\beta$ 3 outside in signaling in platelets leading to stabilization of developing thrombus in vivo. *J Clin Invest.*, 2010 Jan;120(1):179-90., <sup>#</sup>equal contribution, (14.151; 69)
24. Legrand N, Ploss A, Balling R, Becker PD, Borsotti C, Brezillon N, Debarry J, de Jong Y, Deng H, Di Santo JP, Eisenbarth S, Eynon E, Flavell RA, Guzman CA, Huntington ND, Kremsdorf D, Manns MP, Manz MG, Mention JJ, Ott M, Rathinam C, Rice CM, Rongvaux A, Stevens S, Spits H, Strick-Marchand H, **Takizawa H**, van Lent AU, Wang C, Weijer K, Willinger T, Ziegler P. Humanized mice for modeling human infectious disease: challenges, progress, and outlook. *Cell Host Microbe.*, 2009 Jul 23;6(1):5-9., (13.021; 188)

25. **Takizawa H**, Eto K, Yoshikawa A, Nakauchi H, Takatsu K, Takaki S. Growth and maturation of megakaryocytes is regulated by Lnk/Sh2b3 adaptor protein through crosstalk between cytokine- and integrin-mediated signals. *Exp Hematol.*, 2008 Jul; 36(7): 897-906, (3.198; 31)
26. **Takizawa H**, Manz MG. Macrophage tolerance: CD47-SIRP-alpha-mediated signals matter. *Nat Immunol.*, 2007 Dec; 8(12): 1287-9., (26.218; 31)
27. **Takizawa H**, Kubo-Akashi C, Nobuhisa I, Kwon SM, Iseki M, Taga T, Takatsu K, Takaki S. Enhanced engraftment of hematopoietic stem/progenitor cells by the transient inhibition of an adaptor protein, Lnk. *Blood.*, 2006 Apr 1; 107(7): 2968-75, (10.432; 34)
28. Kubo-Akashi C, Iseki M, Kwon SM, **Takizawa H**, Takatsu K, Takaki S. Roles of a conserved family of adaptor proteins, Lnk, SH2-B, and APS, for mast cell development, growth, and functions: APS-deficiency causes augmented degranulation and reduced actin assembly. *Biochem. Biophys. Res. Commun.*, 2004 Mar 5; 312(2): 356-62, (2.648; 30)